REPORT

2025 Annual Groundwater Monitoring and Corrective Action Report

LCPA Surface Impoundment, Labadie Energy Center, Franklin County, Missouri, USA

January 31, 2026

Project Number: 23007-25

Submitted to:

Ameren Missouri
1901 Chouteau Avenue
St. Louis, Missouri 63103

Submitted by:

Rocksmith Geoengineering, LLC
2320 Creve Coeur Mill Rd
Maryland Heights, MO 63043



EXECUTIVE SUMMARY AND STATUS OF THE LCPA GROUNDWATER MONITORING PROGRAM

This annual report was developed to meet the requirements of United States Environmental Protection Agency (USEPA) 40 CFR Part 257 “Hazardous and Solid Waste Management System; Disposal of Coal Combustion Residuals From Electric Utilities; Final Rule” (the CCR Rule). The CCR Rule requires owners or operators of existing CCR units to produce an Annual Groundwater Monitoring and Corrective Action Report (Annual Report) each year (§ 257.90(e)). Ameren Missouri (Ameren) has determined that the LCPA Coal Combustion Residuals (CCR) Surface Impoundment at the Labadie Energy Center (LEC or Site) is subject to the requirements of the CCR Rule. This Annual Report for the LCPA describes CCR Rule groundwater monitoring activities from January 1, 2025 through December 31, 2025 including verification results related to late 2024 sampling.

Throughout 2025, the LCPA has been in Corrective Action Monitoring with Detection and Assessment Monitoring continuing concurrently. Semi-annual groundwater sampling associated with Detection Monitoring has been ongoing since Detection Monitoring was initiated on October 17, 2017, as required by the CCR Rule. As a part of Detection Monitoring, statistical evaluations are completed after each sampling event to determine if there are any values at a Statistically Significant Increase (SSI) over background concentrations. SSIs have been determined for each sampling event and a summary of the SSIs for the past year is provided in **Table 1**.

The Assessment Monitoring program was established at the LCPA on April 15, 2018. Since that time, groundwater sampling and statistical evaluations have been completed semi-annually to determine if there are any values at a Statistically Significant Level (SSL) over the site-specific Groundwater Protection Standard (GWPS). On October 11, 2018, it was determined that molybdenum was present at an SSL. A summary of SSLs for the past year is provided in **Table 1**.

Table 1 - Summary of 2025 LCPA Sampling Events, Previous Year Verification, and Statistical Evaluations for Detection and Assessment Monitoring

Event Name	Type of Event and Sampling Dates	Laboratory Analytical Data Receipt Date	Parameters Collected	Verified SSIs	SSLs	SSI & SSL Determination Date
October-November 2024 Sampling Event	Detection & Assessment Monitoring, October 28-November 1, 2024	December 23, 2024	Appendix III, Appendix IV, & Major Cations and Anions	**pH:** UMW-3D(R), UMW-4D, UMW-5D, UMW-6D **Boron:** UMW-1D, UMW-2D, UMW-3D(R), UMW-4D, UMW-5D, UMW-6D, UMW-7D, UMW-8D **Chloride:** UMW-2D, UMW-3D(R), UMW-4D, UMW-5D, UMW-6D, UMW-9D **Sulfate:** UMW-2D, UMW-3D(R), UMW-4D, UMW-5D, UMW-6D **TDS:** UMW-1D, UMW-2D, UMW-5D, UMW-6D	**Molybdenum:** UMW-3D(R), UMW-4D, UMW-5D, UMW-6D UMW-7D	March 21, 2025
	Verification Sampling, February 4, 2025	February 20, 2025	Detected Appendix III parameters (See Note 1)			
April 2025 Sampling Event	Detection & Assessment Monitoring, April 24-30, 2025	June 12, 2025	Appendix III, Appendix IV, Major Cations and Anions, & selected MNA parameters	**pH:** UMW-3D(R), UMW-4D, UMW-5D, UMW-6D **Boron:** UMW-1D, UMW-2D, UMW-3D(R), UMW-4D, UMW-5D, UMW-6D, UMW-7D **Chloride:** UMW-2D, UMW-3D(R), UMW-4D, UMW-5D, UMW-6D, UMW-9D **Sulfate:** UMW-2D, UMW-3D(R), UMW-4D, UMW-5D, UMW-6D **TDS:** UMW-1D, UMW-2D, UMW-5D, UMW-6D	**Molybdenum:** UMW-3D(R), UMW-4D, UMW-5D, UMW-6D	September 10, 2025
	Verification Sampling, July 8, 2025; Confirmatory Sampling August 11, 2025	July 17, 2025	Detected Appendix III parameters (See Note 1), Confirmatory Arsenic samples(See Note 2)			

Event Name	Type of Event and Sampling Dates	Laboratory Analytical Data Receipt Date	Parameters Collected	Verified SSIs	SSLs	SSI & SSL Determination Date
October 2025 Sampling Event	Detection & Assessment Monitoring, October 17-22, 2025	November 21, 2025	Appendix III, Appendix IV, & Major Cations and Anions	**pH:** UMW-3D(R), UMW-4D, UMW-5D, UMW-6D **Boron:** UMW-1D, UMW-2D, UMW-3D(R), UMW-4D, UMW-5D, UMW-6D, UMW-7D **Calcium:** UMW-1D **Chloride:** UMW-2D, UMW-3D(R), UMW-4D, UMW-5D, UMW-6D, UMW-9D **Fluoride:** UMW-4D **Sulfate:** UMW-2D, UMW-3D(R), UMW-4D, UMW-5D, UMW-6D **TDS:** UMW-1D, UMW-2D, UMW-5D, UMW-6D	To be determined after statistical analysis for SSLs is completed in 2026.	SSI: January 31, 2026 SSL: To be completed in 2026
	Verification Sampling, December 8, 2025	December 23, 2025	Detected Appendix III parameters (See Note 1)			

Notes:
1) Only analytes/wells that were detected above the prediction limit and that had not already been verified as SSIs were tested during Verification Sampling.
2) Confirmatory arsenic (Appendix IV parameter) samples were collected on August 11, 2025 at BMW-1D, BMW-2D, and UMW-1D.
3) SSI – Statistically Significant Increase.
4) SSL – Statistically Significant Limit.
5) TDS – Total Dissolved Solids.
6) MNA – Monitored Natural Attenuation.
7) NA – Not Applicable.

On January 9, 2019, Ameren initiated its Corrective Measures Assessment (CMA) and posted the CMA report on May 20, 2019. A public meeting was held on May 29, 2019, and responses to public comments are posted on Ameren's CCR website. On August 30, 2019, Ameren published its “Remedy Selection Report – 40 CFR § 257.97 Rush Island, Labadie, Sioux and Meramec CCR Basins” (Remedy Selection Report) that identified source control through installation of a low permeability cover system, use of Monitored Natural Attenuation (MNA), and installation of Supplemental Corrective Measures as its chosen corrective action remedial plan. The Remedy Selection Report’s remedial plan consists of two phases as follows:

1) Source control, stabilization and containment of CCR by installation of a low permeability geomembrane cap (a minimum 1 x 10^{-7} centimeters per second (cm/sec) versus 1 x 10^{-5} cm/sec required by the CCR Rule).

2) Once source control is achieved, monitor the natural attenuation of groundwater concentrations to address limited and localized CCR-related impacts. Ongoing monitoring and modelling evaluations will document that concentrations are decreasing as modelled. MNA occurs due to naturally occurring processes within the aquifer.

Ameren commenced Phase 1 of the corrective action remedial plan in September 2019 by initiating closure at the LCPA. Substantial closure of the LCPA was completed in 2020, with the geomembrane cover system completed on December 30, 2020. Additional aspects of closure were completed in spring 2021 and the unit is closed. Closure of the LCPA triggered the transition of the LCPA into the post-closure care requirements of the CCR Rule. As outlined in §257.104 (Post-closure Care Requirements) of the CCR Rule, the monitoring system and programs must be maintained for at least 30 years. After 30 years, if the unit is in Detection Monitoring, the unit may cease groundwater sampling activities, otherwise post-closure care must continue until the unit can return to Detection Monitoring in accordance with §257.95 (Assessment Monitoring Program).

A Supplemental Remedy Selection Report for the LEC was published in August 2024 by Haley & Aldrich, Inc. on behalf of Ameren. The report details the progress of corrective measures implemented since the 2019 Remedy Selection Report, including the completion of source control activities and ongoing natural attenuation processes. It highlights that the closure of the LCPA, through dewatering and the installation of a low-permeability geomembrane cap, has significantly contributed to reduced infiltration and controlled the release of contaminants. Groundwater monitoring data shows a general trend of decreasing constituent concentrations in many monitoring

wells near the LCPA. Additionally, the report outlines future supplemental measures under consideration, such as groundwater treatment similar to measures taken at the Rush Island Energy Center and the Sioux Energy Center.

Sampling for Phase 2 of the corrective measures remedial plan as outlined in the Remedy Selection Report began with the February/April 2021 Corrective Action groundwater sampling event on February 18, 2021. Since that time, groundwater sampling and statistical evaluations have been completed semi-annually to determine if constituents are statistically in exceedance of the GWPS. A summary of Corrective Action Monitoring activities and associated statistical results for this year is provided in **Table 2**.

Table 2 – Summary of 2025 LCPA Sampling Events and Statistical Evaluations for Corrective Action Monitoring

Event Name	Type of Event and Sampling Dates	Laboratory Analytical Data Receipt Date	Parameters Collected	Constituents Statistically Exceeding the GWPS as a Part of Corrective Action Statistical Evaluations	Date Exceedance of GWPS was determined
October-November 2024 Sampling Event	Phase 2 – Corrective Action Sampling October 28-November 1, 2024	December 23, 2024	Appendix III, Appendix IV, & Major Cations and Anions	**Arsenic:** LMW-2S* **Molybdenum:** LMW-2S, LMW-4S, LMW-7S, LMW-8S, AM-1D, TP-2D, TP-3D, TP-3M, AMW-8, MW-33[D], MW-34[D], MW-35[D]	March 21, 2025
April 2025 Sampling Event	Phase 2 – Corrective Action Sampling April 24-30, 2025	June 14, 2025	Appendix III, Appendix IV, Major Cations and Anions, & selected MNA parameters	**Arsenic:** LMW-2S* **Molybdenum:** LMW-2S, LMW-4S, LMW-7S, LMW-8S, AM-1D, TP-2D, TP-3D, TP-3M, AMW-8, MW-33[D], MW-34[D], MW-35[D]	September 12, 2025
October 2025 Sampling Event	Phase 2 – Corrective Action Sampling October 17-22, 2025	November 17, 2025	Appendix III, Appendix IV, & Major Cations and Anions	Statistical analysis to evaluate statistical exceedances of the GWPS were not completed in 2025. Results of the statistical evaluation will be included in the 2026 Annual Report.	

Notes:
1) * - Arsenic values at LMW-2S were below the GWPS across the last four semiannual sampling events since May 2024.

While there are exceedances of the GWPS for arsenic and molybdenum, variability in the initial groundwater sampling results after closure of the LCPA is expected, especially at wells in close proximity to the LCPA CCR Unit. Constituents at an exceedance of the GWPS are expected to show decreases in concentration over time after stabilization occurs due to closure and corrective measures are employed. Future data collection will be used to further constrain calculated statistical confidence limits used for SSL and Corrective Action exceedance determination.

Molybdenum and arsenic remain as exceedances; therefore, the unit remains in Corrective Action monitoring. However, LMW-2S is the only well monitored in Corrective Action with a statistical arsenic exceedance, and concentrations have been below the site GWPS since May 2024.

Supplemental Corrective Measures

Overall, Corrective Actions taken by Ameren, including closure of the LCPA with an engineered geomembrane cover system and MNA, have reduced concentrations of key CCR constituents. Average boron concentrations have decreased approximately 21% and average molybdenum concentrations have decreased approximately 18% since 2019 in monitoring wells downgradient of the LCPA that currently contain an SSL or statistical exceedance for molybdenum in either the Assessment Monitoring or Corrective Action monitoring. Ameren is evaluating use of a groundwater treatment system to further reduce the concentrations of constituents of concern

at the LCPA in coming years. Groundwater monitoring and further evaluation of monitoring results will continue, and progress will be tracked in future Annual Reports and statistical evaluations.

Table of Contents

1.0 Installation or Decommissioning of Monitoring Wells 1
2.0 Groundwater Sampling Results and Discussion 1
2.1 Detection Monitoring Program 1
2.2 Assessment Monitoring Program 1
2.3 Corrective Action Monitoring Program 2
2.4 Evaluation of Corrective Measures 3
2.5 Groundwater Elevation, Flow Rate and Direction 3
2.6 Sampling Issues 4
3.0 Activities Planned For 2026 4

TABLES

Table 1 – Summary of 2025 LCPA Sampling Events, Previous Year Verification, and Statistical Evaluations for Detection and Assessment Monitoring (in executive summary)
Table 2 – Summary of 2025 LCPA Sampling Events and Statistical Evaluations for Corrective Action Monitoring (in executive summary)
Table 3 – Summary of Well Construction Details
Table 4 – Summary of Detection and Assessment Monitoring Sampling Dates
Table 5 – Summary of Corrective Action Monitoring Sampling Dates
Table 6 – October - November 2024 Detection Monitoring Results
Table 7 – April 2025 Detection Monitoring Results
Table 8 – October 2025 Detection Monitoring Results
Table 9 – October - November 2024 Assessment Monitoring Results
Table 10 – April 2025 Assessment Monitoring Results
Table 11 – October 2025 Assessment Monitoring Results
Table 12 – October - November 2024 Corrective Action Monitoring Results
Table 13 – April 2025 Corrective Action Monitoring Results
Table 14 – October 2025 Corrective Action Monitoring Results

FIGURES

Figure 1 – Labadie Energy Center Groundwater Monitoring Programs and Monitoring Well Location Map
Figure 2 – Average Boron Concentrations (in text)
Figure 3 – Average Molybdenum Concentrations (in text)

APPENDICES

Appendix A – Laboratory Analytical Data
Appendix B – October - November 2024 Assessment Monitoring Statistical Evaluation
Appendix C – April 2025 Assessment Monitoring Statistical Evaluation
Appendix D – October - November 2024 Corrective Action Statistical Evaluation
Appendix E – April 2025 Corrective Action Statistical Evaluation
Appendix F – 2025 Potentiometric Surface Maps

1.0 INSTALLATION OR DECOMMISSIONING OF MONITORING WELLS

There are currently two different networks used for monitoring the LCPA. These include the monitoring well network established under §257.91 for Detection and Assessment Monitoring and the network established under §257.98 for Corrective Action Monitoring, as displayed in **Figure 1**. No new wells were installed or decommissioned in 2025. A summary of the well construction details for monitoring wells in both networks is provided in **Table 3.** Further details, including well construction diagrams for these wells, are provided in previous annual reports for the LCPA.

2.0 GROUNDWATER SAMPLING RESULTS AND DISCUSSION

The following sections discuss the groundwater sampling events completed for the LCPA CCR Unit in 2025. **Tables 4** and **5** provide a summary of the groundwater samples collected in 2025 including the number of samples, the date of the sample collection, and the monitoring program for which the samples were collected. **Appendix A** provides laboratory analytical data for CCR Rule sampling events conducted in 2025.

2.1 Detection Monitoring Program

A Detection Monitoring groundwater sampling event was completed October 28 to November 1, 2024. Verification sampling and the statistical analysis to evaluate for SSIs for the November 2024 event were not completed until 2025 and are therefore included in this report. One new initial exceedance of an Appendix III analyte triggered a verification sampling event, which was completed February 4, 2025, and verified one SSI. **Table 6** summarizes the results and the statistical analysis of the October-November 2024 Detection Monitoring event. Laboratory analytical data for the October-November 2024 Detection Monitoring event are provided in the 2024 Groundwater Monitoring and Corrective Action Annual Report for the LCPA.

Detection Monitoring samples were collected April 24-30, 2025, and testing was completed for all Appendix III analytes, as well as major cations and anions. As outlined in the Statistical Analysis Plan for the Site, updates to the statistical limits should be completed once four to eight new sample results are available. During the statistical analysis of the April 2025 sampling event, the statistical limits used to determine an SSI were updated according to the Statistical Analysis Plan. One new initial exceedance of an Appendix III analyte triggered a verification sampling event, which was completed July 8, 2025 and did not verify a new SSI. **Table 7** summarizes the results and the statistical analysis of the April 2025 Detection Monitoring event.

A Detection Monitoring sampling event was completed October 17-22, 2025, and testing was completed for all Appendix III analytes, as well as major cations and anions. Associated verification sampling for this event was completed on December 8, 2025, and of the three new initial exceedances, two were confirmed as SSIs. **Table 8** summarizes the results and statistical analysis of the October 2025 Detection Monitoring event.

2.2 Assessment Monitoring Program

An Assessment Monitoring groundwater sampling event was completed October 28 to November 1, 2024, and testing was completed for all Appendix IV analytes as well as major cations and anions. **Table 9** summarizes the results of the November 2024 Assessment Monitoring event. Laboratory analytical data for this event are provided in the 2024 Annual Report. The statistical evaluation for this event was completed in 2025 and is included in this report. The results from this analysis and a table that displays the site-specific GWPS for each Appendix IV constituent are provided in **Appendix B.** As of the October-November 2024 sampling event, the SSLs for LCPA Assessment Monitoring were identified as follows:

- Molybdenum at UMW-3D(R), UMW-4D, UMW-5D, UMW-6D, and UMW-7D

An Assessment Monitoring sampling event was completed April 24-30, 2025. Testing was completed for all Appendix IV analytes, major cations and anions, and other selected MNA parameters. **Table 10** summarizes the results of the April 2025 Assessment Monitoring event. Concurrent with prediction limit updates for Detection

Monitoring, site-specific GWPSs used to determine SSLs and Corrective Action exceedances were updated according to the Statistical Analysis Plan. The statistical evaluation for this event and updated site GWPSs are provided in **Appendix C**. As of the April 2025 sampling event, molybdenum at UMW-7D is no longer present at an SSL; however, previously identified molybdenum SSLs remain. As of April 2025, SSLs for LCPA Assessment Monitoring are as follows:

- Molybdenum at UMW-3D(R), UMW-4D, UMW-5D, UMW-6D

An Assessment Monitoring sampling event was completed October 17-22, 2025. Testing was completed for all Appendix IV analytes as well as major cations and anions. **Table 11** summarizes the results of the October 2025 Assessment Monitoring event; however, the statistical analysis to evaluate SSLs for this event were not completed in 2025. Results of the statistical evaluation will be included in the 2026 Annual Report.

2.3 Corrective Action Monitoring Program

A Corrective Action groundwater sampling event was completed October 28 to November 1, 2024. Testing was completed for all Appendix III analytes, Appendix IV analytes and major cations and anions. A summary of the November 2024 Corrective Action sampling event results is provided in **Table 12** and the results of the statistical evaluation for this event are provided in **Appendix D**. Based on this analysis, lithium is no longer an exceedance of the GWPS at any well in Corrective Action Monitoring. The following are constituents with statistical exceedances of the GWPS using Corrective Action statistical methods[1] as of the October-November 2024 sampling event:

- Arsenic at LMW-2S[2]
- Molybdenum at LMW-2S, LMW-4S, LMW-7S, LMW-8S, AM-1D, TP-2D, TP-3D, TP-3M, AMW-8, MW-33(D), MW-34(D), and MW-35(D)

A Corrective Action sampling event was completed April 24-30, 2025. Testing was completed for all Appendix III and IV analytes, major cations and anions, and other selected MNA parameters. A summary of the April 2025 Corrective Action sampling event results is provided in **Table 13**. Results of the statistical evaluation for this event and the updated GWPSs discussed previously are provided in **Appendix E**. The exceedances listed above for the October-November 2024 statistical evaluation remain as of the April 2025 event.

A Corrective Action sampling event was completed on October 17-22, 2025. Testing was completed for all Appendix III and IV analytes in addition to major cations and anions. **Table 14** summarizes the results of the October 2025 Corrective Action event; however, the statistical evaluation for exceedances of the GWPS associated with this event was not completed in 2025. Results of this statistical evaluation will be included in the 2026 Annual Report.

While there are exceedances of the GWPS using corrective action statistical analysis methods for arsenic and molybdenum, variability in the initial groundwater sampling results after closure of the LCPA is expected, especially at wells in close proximity to the LCPA CCR Unit (e.g., LMW-2S). The concentrations reported in these preliminary results are expected to decrease over time as a result of the closure activities and as stabilization occurs.

[1] The statistical testing method used to evaluate the Corrective Action monitoring results is the confidence interval method, which is the same method used during Assessment Monitoring, except the null hypothesis for the confidence intervals is reversed. For Corrective Action, the Unified Guidance states that the appropriate null hypothesis is that the groundwater population (mean) exceeds the Groundwater Protection Standard (GWPS) for those constituents that exceed the GWPS under Assessment Monitoring program. Therefore, in Corrective Action the Upper Confidence Limit (UCL) is compared to the GWPS instead of the Lower Confidence Limit (LCL) [as used during Assessment Monitoring].

[2] Arsenic results at LMW-2S have been below the site GWPS since the May 2024 sampling event. Arsenic is an exceedance at this well using Corrective Action statistical methods. However, if Assessment Monitoring statistical methods are used to evaluate arsenic at LMW-2S, it would not be a statistical exceedance.

2.4 Evaluation of Corrective Measures

Ameren commenced Phase 1 of the corrective action remedial plan in September 2019 by initiating closure of the LCPA, which was completed on December 30, 2020. The October 2025 groundwater sampling event represents the 10th semiannual groundwater sampling event since closure of the LCPA.

The effectiveness of the Corrective Action Remedies (Corrective Measures) was documented by completing a site-wide evaluation of concentrations of the key site CCR Indicators. **Figures 2** and **3**, below, display the average concentrations for boron and molybdenum in the monitoring wells that have had, or currently contain, an SSL or statistical exceedance for molybdenum in either Assessment Monitoring or Corrective Action Monitoring for the LCPA. While there is variability in individual well results, the average annual boron and molybdenum concentrations at the site are decreasing as follows:

- **Boron** - Average concentrations in monitoring wells with molybdenum SSLs or statistical exceedances have decreased approximately 21% since 2019.
- **Molybdenum** - Average concentrations in monitoring wells with molybdenum SSLs or statistical exceedances have decreased approximately 18% since 2019.

Figure 2 - Average Boron Concentrations

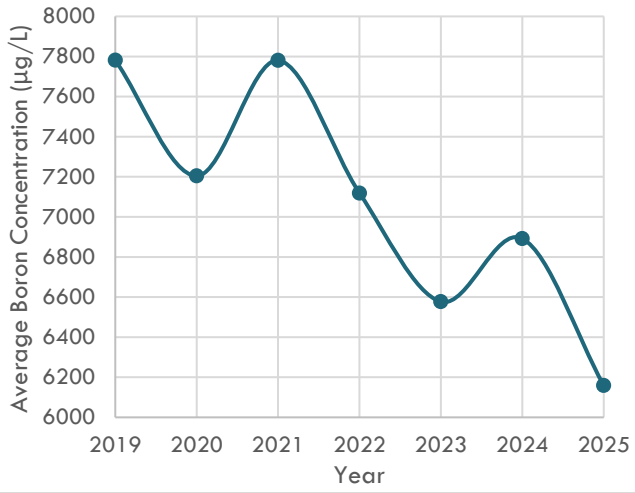
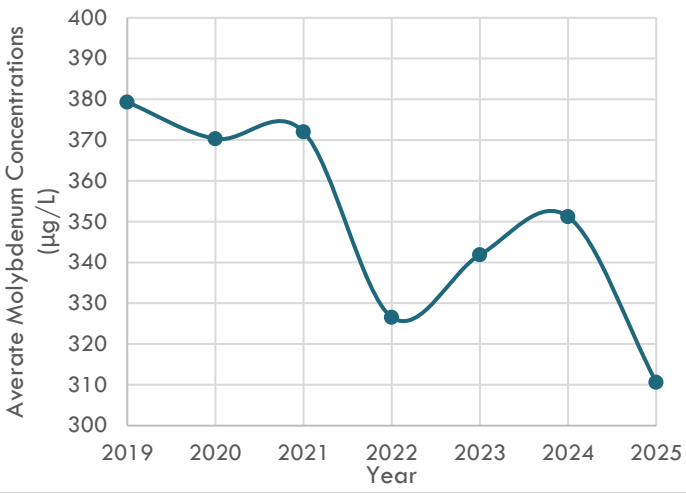


Figure 3 - Average Molybdenum Concentrations



As displayed by these figures, corrective measures taken by Ameren including the closure of the LCPA with an engineered geomembrane system and MNA have been effective at reducing concentrations of key CCR constituents.

2.5 Groundwater Elevation, Flow Rate and Direction

To meet the requirements of §257.93(c), water level measurements were taken at all monitoring wells prior to the start of groundwater purging and sampling events. Static water levels were measured within a 24-hour period in each monitoring well using an electronic water level indicator.

Groundwater elevations were used to generate potentiometric surface maps included in **Appendix F**. As shown on the potentiometric surface maps, groundwater flow direction within the uppermost aquifer is dynamic and influenced by seasonal changes in the water level in the adjacent Missouri River. Water flows into and out of the alluvial aquifer because of fluctuating river water levels that produce “bank recharge” and “bank discharge” conditions. Overall, based on the potentiometric surface maps, a general flow direction from the south/southwest (bluffs area) to the north/northeast (Missouri River) is observed under normal river conditions. However, during periods of high river levels, groundwater flow can temporarily reverse, as was observed in April 2025. During these times of high river stage and temporary flow direction changes, horizontal groundwater gradients generally

decrease, and little net movement of groundwater occurs. Based on five rounds of water level measurements collected in 2025, groundwater across the LEC exhibited typical flow towards the Missouri River throughout much of 2025, except in April, when flow was influenced by high river levels and temporarily flowed to the southeast.

Groundwater flow direction and hydraulic gradient were estimated for the alluvial aquifer wells at the LEC using commercially available software. Results from this assessment indicate that, while groundwater flow direction is variable, the overall net groundwater flow in the alluvial aquifer at the LEC is from the bluffs toward the river. Horizontal gradients calculated by the program range from 0.0001 to 0.0009 feet/foot with an estimated net annual groundwater movement of approximately 18 feet per year in the prevailing downgradient direction.

2.6 Sampling Issues

Upon review of laboratory data for the April 2025 Detection and Assessment Monitoring results, it was determined that a laboratory dilution error resulted in erroneous results for chloride, fluoride, and sulfate at UMW-6D. The laboratory was notified of this error, and reanalysis of the original sample bottle was conducted. Results of the reanalysis for these constituents at this well are presented in **Tables 7** and **10**.

No other notable sampling issues were encountered at the LCPA in 2025.

3.0 ACTIVITIES PLANNED FOR 2026

Detection and Assessment Monitoring are scheduled to continue on a semi-annual basis in the second and fourth quarters of 2026. Statistical analysis of the October 2025 Detection and Assessment Monitoring data will be completed in 2026 and will be included in the 2026 Annual Report.

As part of the Phase 2 of the Remedy Selection Report's corrective measures remedial plan, Corrective Action sampling is scheduled to continue on a semi-annual basis in the second and fourth quarters of 2026. Statistical analysis of the October 2025 Corrective Action Monitoring data will be completed in 2026 and will be included in the 2026 Annual Report. Groundwater monitoring, statistical evaluation, and evaluation of MNA will be completed in accordance with the corrective measures remedial plan discussed in the Remedy Selection Report. Continued evaluation of additional supplemental corrective measures such as groundwater treatment will be performed as needed.

Evaluation of the effectiveness of Corrective Action and Corrective Measures on CCR constituent concentrations in groundwater will continue in 2026 and be included in the 2026 Annual Report.

Tables

Table 3
Summary of Well Construction Details
LCPA Surface Impoundment
Labadie Energy Center, Franklin County, MO

Monitoring Well ID	Installation Date	Location		Top of Casing Elevation	Ground Surface Elevation	Top of Screen Elevation	Base of Well	Total Depth
		Northing[1]	Easting[1]	(FT MSL)[2]	(FT MSL)[2]	(FT MSL)[2]	(FT MSL)[2]	(FT BGS)[3]
CCR RULE COMPLIANCE NETWORK								
UMW-1D	11/19/2015	988822.5	723129.4	489.72	487.8	407.6	397.4	90.4
UMW-2D	11/21/2015	990437.2	722248.6	484.81	482.7	412.7	402.5	80.3
UMW-3D(R)	10/25/2018	991823.5	723545.1	491.13	488.9	409.4	399.2	89.7
UMW-4D	11/24/2015	992512.3	724538.1	494.95	493.2	407.9	397.7	95.5
UMW-5D	11/23/2015	992027.2	725067.9	496.76	494.9	408.2	398.0	96.9
UMW-6D*	11/22/2015	991382.8	725540.9	493.59	492.0	410.4	400.2	91.8
UMW-7D	11/20/2015	990722.8	726032.4	469.79	468.0	412.6	402.4	65.6
UMW-8D	11/19/2015	989892.7	725179.5	469.47	467.5	407.0	396.8	70.6
UMW-9D	11/19/2015	989220.0	724447.8	470.61	468.8	408.9	398.7	70.1
BMW-1D	2/1/2016	988310.6	715138.4	473.54	471.2	410.5	400.3	70.9
BMW-2D	2/2/2016	987204.3	715104.2	474.39	472.4	413.0	402.8	69.6
CORRECTIVE ACTION MONITORING WELL NETWORK								
BMW-1S	2/1/2016	988310.0	715131.6	473.49	471.2	450.7	440.5	30.7
BMW-2S	2/2/2016	987210.1	715104.3	474.56	472.5	454.6	444.4	28.1
LMW-1S	11/20/2015	990727.7	726039.1	470.06	468.1	454.5	444.3	23.8
LMW-2S	11/23/2015	992017.5	725074.2	496.64	494.9	445.8	440.6	54.3
LMW-4S	11/18/2015	994194.9	725624.1	472.88	470.7	448.3	438.1	32.7
LMW-7S	11/20/2015	992330.1	726371.1	468.43	466.7	453.4	443.2	23.5
LMW-8S	11/20/2015	991371.2	726351.3	467.24	465.2	452.2	442.0	23.2
MW-24	3/20/2013	991819.3	727992.3	467.10	464.6	457.3	447.1	17.5
MW-26	3/20/2013	993976.5	726910.9	469.20	466.7	456.4	446.2	20.5
S-1	4/5/2017	994676.8	726055.1	472.64	470.4	453.2	442.9	27.5
TP-1D	6/3/2018	997122.3	734100.3	469.09	465.8	380.1	375.0	90.8
TP-2M	6/2/2018	993865.6	722603.7	471.22	468.2	412.9	407.8	60.5
TP-2D	6/2/2018	993865.6	722603.7	471.22	468.2	374.6	369.5	98.7
TP-3M	6/17/2018	996343.6	725783.7	475.64	472.6	417.8	412.7	59.9
TP-3D	6/17/2018	996343.6	725783.7	475.63	472.6	382.5	377.4	95.2
TP-4D	6/13/2018	999139.8	728578.3	472.08	469.1	379.0	373.9	95.2
MW-33(D)	3/6/2014	995742.0	727409.0	472.15	469.4	402.1	391.9	77.5
MW-34(D)	2/25/2014	995561.0	728820.0	470.19	467.4	401.5	391.3	76.1
MW-35(D)	3/8/2014	992693.0	727536.0	468.59	465.9	398.5	388.3	77.6
AM-1D (UMW-10D)	5/31/2018	995298.6	723827.3	482.78	480.0	409.8	399.6	80.4
AM-1S (UMW-10S)	5/31/2018	995288.1	723817.1	483.00	480.2	454.8	444.6	35.6
AMW-8	6/13/2018	994225.9	726113.0	471.06	468.4	411.1	400.9	67.5

Notes:
1) Horizontal Datum: State Plane Coordinates NAD83 (2000) Missouri East Zone feet.
2) FT MSL- Feet above mean sea level.
3) FT BGS - Feet below ground surface.
4) Vertical Datum: NAVD88 feet.
5) * - UMW-6D was modified on October 15th, 2020 due to construction requirements associated with the closure of the LCPA.

Prepared by: JSI
Checked by: GTM
Reviewed by: MNH

Table 4
Summary of Detection and Assessment Monitoring Sampling Dates
LCPA Surface Impoundment
Labadie Energy Center, Franklin County, MO

Groundwater Monitoring Wells	Date of Sample Collection						
	February 2025 Verification Sampling	April 2025 Sampling Event	July 2025 Verification Sampling	August 2025 Confirmatory Sampling	October 2025 Sampling Event	December 2025 Verification Sampling Event	Total Number of Samples
CCR Rule Compliance Monitoring Well Network							
BMW-1D	-	4/24/2025	-	8/11/2025	10/21/2025	-	3
BMW-2D	-	4/24/2025	-	8/11/2025	10/21/2025	-	3
UMW-1D	2/4/2025	4/25/2025	7/8/2025	8/11/2025	10/20/2025	12/8/2025	6
UMW-2D	-	4/30/2025	-	-	10/20/2025	12/8/2025	3
UMW-3D(R)	-	4/29/2025	-	-	10/22/2025	-	2
UMW-4D	-	4/25/2025	7/8/2025	-	10/21/2025	12/8/2025	4
UMW-5D	-	4/25/2025	-	-	10/20/2025	-	2
UMW-6D	-	4/25/2025	-	-	10/21/2025	-	2
UMW-7D	-	4/29/2025	-	-	10/17/2025	-	2
UMW-8D	-	4/29/2025	-	-	10/17/2025	-	2
UMW-9D	-	4/29/2025	-	-	10/17/2025	-	2
Detection or Assessment Monitoring	Detection	Assessment/ Detection	Detection	Assessment	Assessment/ Detection	Detection	NA

Notes:

1.) Detection Monitoring results provided in Tables 6 - 8.

2.) Verification Sampling results provided in Tables 6 - 8.

3.) Assessment Monitoring results provided in Tables 9 - 11.

4) Confirmatory arsenic samples were collected on August 11, 2025 at BMW-1D, BMW-2D, and UMW-1D.

4.) "-" No sample collected.

5.) NA - Not Applicable.

Prepared by: GTM
Checked by: JTR
Reviewed by: MNH

Table 5
Summary of Corrective Action Monitoring Sampling Dates
LCPA Surface Impoundment
Labadie Energy Center, Franklin County, MO

Groundwater Monitoring Wells	Date of Sample Collection		
	April 2025 Sampling Event	October 2025 Sampling Event	Total Number of Samples
Corrective Action Monitoring Well Network			
BMW-1S	4/24/2025	10/21/2025	2
BMW-2S	4/24/2025	10/21/2025	2
LMW-1S	4/29/2025	10/17/2025	2
LMW-2S	4/25/2025	10/20/2025	2
LMW-4S	4/28/2025	10/22/2025	2
LMW-7S	4/30/2025	10/17/2025	2
LMW-8S	4/30/2025	10/17/2025	2
MW-24	4/28/2025	10/21/2025	2
MW-26	4/30/2025	10/21/2025	2
S-1	4/30/2025	10/21/2025	2
TP-1D	4/25/2025	10/20/2025	2
TP-2M	4/30/2025	10/20/2025	2
TP-2D	4/30/2025	10/20/2025	2
TP-3M	4/24/2025	10/17/2025	2
TP-3D	4/24/2024	10/17/2025	2
TP-4D	4/24/2025	10/17/2025	2
MW-33(D)	4/24/2025	10/17/2025	2
MW-34(D)	4/28/2025	10/17/2025	2
MW-35(D)	4/28/2025	10/21/2025	2
AMW-8	4/28/2025	10/21/2025	2
AM-1D (UMW-10D)	4/29/2025	10/20/2025	2
AM-1S (UMW-10S)	4/29/2025	10/20/2025	2
Event Type	Corrective Action	Corrective Action	NA

Notes:

1.) Corrective Action sampling results provided in Tables 12-14.

2.) NA - Not Applicable.

Prepared by: JDQ
Checked by: JTR
Reviewed by: MNH

Table 6
October - November 2024 Detection Monitoring Results
LCPA Surface Impoundment
Labadie Energy Center, Franklin County, MO

			BACKGROUND		GROUNDWATER MONITORING WELLS								
ANALYTE	UNITS	PREDICTION LIMITS	BMW-1D	BMW-2D	UMW-1D	UMW-2D	UMW-3D(R)	UMW-4D	UMW-5D	UMW-6D	UMW-7D	UMW-8D	UMW-9D
October - November 2024 Detection Monitoring Event													
DATE	NA	NA	10/28/2024	10/28/2024	11/1/2024	10/28/2024	11/1/2024	10/31/2024	11/1/2024	11/1/2024	10/29/2024	10/30/2024	10/30/2024
pH	SU	6.865-7.474	6.82	6.98	7.06	6.97	8.05	8.37	9.34	8.18	7.08	7.12	7.02
BORON, TOTAL	µg/L	DQR	71.2 J	64.1 J	427	976	9,550	9,930	10,700	9,340	808	325	76.9 J
CALCIUM, TOTAL	µg/L	149,838	113,000	149,000	149,000	148,000	77,800	66,100	91,200	117,000	101,000	31,700	116,000
CHLORIDE, TOTAL	mg/L	17.52	7.4	2.2	9.4	42.6	29.0	26.7	28.8	21.9	7.6	1.1	27.6 J
FLUORIDE, TOTAL	mg/L	0.2975	ND	ND	ND	ND	ND	0.27	ND	ND	ND	0.17 J	ND
SULFATE, TOTAL	mg/L	53.67	19.7	51.9	27.4	150	281	296	380	487	12.6	ND	0.61 J
TOTAL DISSOLVED SOLIDS	mg/L	569.9	431	540	627	707	537	566	641	925	399	149	472
February 2025 Verification Sampling Event													
DATE	NA	NA			2/4/2025								
pH	SU	6.865-7.474											
BORON, TOTAL	µg/L	DQR											
CALCIUM, TOTAL	µg/L	149,838											
CHLORIDE, TOTAL	mg/L	17.52											
FLUORIDE, TOTAL	mg/L	0.2975											
SULFATE, TOTAL	mg/L	53.67											
TOTAL DISSOLVED SOLIDS	mg/L	569.9			654 J								

NOTES:
1. Unit Abbreviations: µg/L - micrograms per liter, mg/L - milligrams per liter, SU - standard units.
2. J - Result is an estimated value.
3. NA - Not applicable.
4. ND - Constituent was analyzed but was not detected above the Method Detection Limit (MDL) or the adjusted Practical Quantitation Limit (PQL) based on data validation and is considered a non-detect. Values displayed as ND.
5. Prediction Limits calculated using Sanitas Software.
6. Values highlighted in yellow indicate a Statistically Significant Increase (SSI).
7. Only analytes/wells that were detected above the prediction limit and that had not already been verified were tested during Verification Sampling.
8. If all background values are less than the Practical Quantitation Limit (PQL) then the Double Quantification Rule (DQR) is used.

Prepared By: GTM
Checked By: JTR
Reviewed By: JSI

Table 7
April 2025 Detection Monitoring Results
LCPA Surface Impoundment
Labadie Energy Center, Franklin County, MO

			BACKGROUND		GROUNDWATER MONITORING WELLS								
ANALYTE	UNITS	PREDICTION LIMITS	BMW-1D	BMW-2D	UMW-1D	UMW-2D	UMW-3D(R)	UMW-4D	UMW-5D	UMW-6D	UMW-7D	UMW-8D	UMW-9D
April 2025 Detection Monitoring Event													
DATE	NA	NA	4/24/2025	4/24/2025	4/25/2025	4/30/2025	4/29/2025	4/25/2025	4/25/2025	4/25/2025	4/29/2025	4/29/2025	4/29/2025
pH	SU	6.859-7.481	7.24	7.41	7.23	7.40	8.43	8.19	9.16	8.07	7.17	7.17	7.32
BORON, TOTAL	µg/L	DQR	90.3 J	66.6 J	353	1,070	11,600	6,190	11,800	8,800	336	33.1 J	83.8 J
CALCIUM, TOTAL	µg/L	150,611	118,000	115,000	150,000	112,000	64,500	58,000	104,000	126,000	146,000	24,000	117,000
CHLORIDE, TOTAL	mg/L	17.16	7.0	1.9	7.1	29.4 J	31.3	23.3	27.6	ND*	7.5	3.2	21.6
FLUORIDE, TOTAL	mg/L	0.29	ND	ND	ND	0.15 J	ND	0.25	ND	ND	ND	ND	ND
SULFATE, TOTAL	mg/L	54.72	18.0	29.5	26.1	212	257	286	407	668	10.6	3.6	ND
TOTAL DISSOLVED SOLIDS	mg/L	568.2	478	450	633	655	500	580	795	1,130	530	116	469
July 2025 Verification Sampling Event													
DATE	NA	NA						7/8/2025					
pH	SU	6.859-7.481											
BORON, TOTAL	µg/L	DQR											
CALCIUM, TOTAL	µg/L	150,611											
CHLORIDE, TOTAL	mg/L	17.16											
FLUORIDE, TOTAL	mg/L	0.29											
SULFATE, TOTAL	mg/L	54.72											
TOTAL DISSOLVED SOLIDS	mg/L	568.2						550					

NOTES:
1. Unit Abbreviations: µg/L - micrograms per liter, mg/L - milligrams per liter, SU - standard units.
2. J - Result is an estimated value.
3. NA - Not applicable.
4. ND - Constituent was analyzed but was not detected above the Method Detection Limit (MDL) or the adjusted Practical Quantitation Limit (PQL) based on data validation and is considered a non-detect. Values displayed as ND.
5. Prediction Limits calculated using Sanitas Software.
6. Values highlighted in yellow indicate a Statistically Significant Increase (SSI).
7. Values highlighted in green indicate an initial exceedance above the prediction limit that was not confirmed by Verification Sampling (not an SSI).
8. Only analytes/wells that were detected above the prediction limit and that had not already been verified were tested during Verification Sampling.
9. If all background values are less than the Practical Quantitation Limit (PQL) then the Double Quantification Rule (DQR) is used.
10. * - A dilution error was identified for the original chloride result at UMW-6D. Upon reanalysis, the result was reported as a non-detect at an MDL of 76.5 mg/L (<76.5 mg/L), which exceeds the prediction limit for chloride. Chloride at UMW-6D has historically been classified as an SSI, and therefore, continues to be classified as an SSI for the April 2025 sampling event.

Prepared By: JTR
Checked By: JDQ
Reviewed By: JSI

Table 8
October 2025 Detection Monitoring Results
LCPA Surface Impoundment
Labadie Energy Center, Franklin County, MO

			BACKGROUND		GROUNDWATER MONITORING WELLS								
ANALYTE	UNITS	PREDICTION LIMITS	BMW-1D	BMW-2D	UMW-1D	UMW-2D	UMW-3D(R)	UMW-4D	UMW-5D	UMW-6D	UMW-7D	UMW-8D	UMW-9D
October 2025 Detection Monitoring Event													
DATE	NA	NA	10/21/2025	10/21/2025	10/20/2025	10/20/2025	10/22/2025	10/21/2025	10/20/2025	10/21/2025	10/17/2025	10/17/2025	10/17/2025
pH	SU	6.859-7.481	7.13	7.16	7.28	7.15	8.14	8.08	9.28	8.57	7.01	7.43	7.00
BORON, TOTAL	µg/L	DQR	76.4 J	66.6 J	405	1,210	10,400	7,500	9,880	9,770	244	43.1 J	74.7 J
CALCIUM, TOTAL	µg/L	150,611	125,000	127,000	151,000	117,000	80,100	59,100	97,900	128,000 J	142,000	29,400	110,000
CHLORIDE, TOTAL	mg/L	17.16	6.4	2.4	8.9	23.5	22.2	21.6	20.7	19.1	8.5	0.35 J	21.3
FLUORIDE, TOTAL	mg/L	0.29	0.21	0.15	0.17	0.30	0.19	0.35	0.096 J	ND	0.15	0.13	0.17
SULFATE, TOTAL	mg/L	54.72	20.6	38.6	14.9	208	269	263	352	668	7.4	2.3	0.10 J
TOTAL DISSOLVED SOLIDS	mg/L	568.2	473	468	599	649	545	536	649	1,060	542	130	458
December 2025 Verification Sampling Event													
DATE	NA	NA			12/8/2025	12/8/2025		12/8/2025					
pH	SU	6.859-7.481											
BORON, TOTAL	µg/L	DQR											
CALCIUM, TOTAL	µg/L	150,611			159,000								
CHLORIDE, TOTAL	mg/L	17.16											
FLUORIDE, TOTAL	mg/L	0.29				ND		0.30 J					
SULFATE, TOTAL	mg/L	54.72											
TOTAL DISSOLVED SOLIDS	mg/L	568.2											

NOTES:
1. Unit Abbreviations: µg/L - micrograms per liter, mg/L - milligrams per liter, SU - standard units.
2. J - Result is an estimated value.
3. NA - Not applicable.
4. ND - Constituent was analyzed but was not detected above the Method Detection Limit (MDL) or the adjusted Practical Quantitation Limit (PQL) based on data validation and is considered a non-detect. Values displayed as ND.
5. Prediction Limits calculated using Sanitas Software.
6. Values highlighted in yellow indicate a Statistically Significant Increase (SSI).
7. Values highlighted in green indicate an initial exceedance above the prediction limit that was not confirmed by Verification Sampling (not an SSI).
8. Only analytes/wells that were detected above the prediction limit and that had not already been verified were tested during Verification Sampling.
9. If all background values are less than the Practical Quantitation Limit (PQL) then the Double Quantification Rule (DQR) is used.

Prepared By: JTR
Checked By: JDQ
Reviewed By: JSI

Table 9
October-November 2024 Assessment Monitoring Results
LCPA Surface Impoundment
Labadie Energy Center, Franklin County, MO

		BACKGROUND		GROUNDWATER MONITORING WELLS								
ANALYTE	UNITS	BMW-1D	BMW-2D	UMW-1D	UMW-2D	UMW-3D(R)	UMW-4D	UMW-5D	UMW-6D	UMW-7D	UMW-8D	UMW-9D
FIELD PARAMETERS												
DATE	NA	10/28/2024	10/28/2024	11/1/2024	10/28/2024	11/1/2024	10/31/2024	11/1/2024	11/1/2024	10/29/2024	10/30/2024	10/30/2024
DISSOLVED OXYGEN	mg/L	0.15	0.14	0.31	0.53	0.90	0.24	0.27	0.23	0.21	0.11	0.20
pH	SU	6.82	6.98	7.06	6.97	8.05	8.37	9.34	8.18	7.08	7.12	7.02
REDOX POTENTIAL	mV	-45.1	-68.8	-147.0	-17.0	-77.1	-128.0	-155.4	-142.9	-135.6	-152.2	-144.2
SPECIFIC CONDUCTIVITY	mS/cm	0.741	0.888	1.114	1.079	0.758	0.784	0.856	1.313	0.655	0.239	0.882
TURBIDITY	NTU	1.64	1.79	3.86	2.90	1.55	1.17	1.27	3.05	5.36	4.94	2.96
APPENDIX IV PARAMETERS												
ANTIMONY, TOTAL	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
ARSENIC, TOTAL	µg/L	2.5	36.4	49.8	0.78 J	1.9	ND	16.9	15.7	25.3	29.0	29.2
BARIUM, TOTAL	µg/L	888	346	507	147	62.1	77.2	82.2	73.6	115	110	487
BERYLLIUM, TOTAL	µg/L	ND	ND	ND	ND	ND	0.14 J	ND	ND	ND	ND	0.29 J
CADMIUM, TOTAL	µg/L	ND	ND	ND	ND	0.099 J	0.12 J	0.19 J	0.18 J	ND	ND	ND
CHROMIUM, TOTAL	µg/L	ND	ND	0.37 J	0.45 J	0.31 J	ND	ND	ND	ND	ND	0.33 J
COBALT, TOTAL	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
FLUORIDE, TOTAL	mg/L	ND	ND	ND	ND	ND	0.27	ND	ND	ND	0.17 J	ND
LEAD, TOTAL	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
LITHIUM, TOTAL	µg/L	27.4	45.5	25.8	31.5	18.6	29.3	21.8	12.4	20.7	12.4	19.9
MERCURY, TOTAL	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MOLYBDENUM, TOTAL	µg/L	1.5 J	1.5 J	1.7 J	20.6	250	435	644	564	82.8	13.3 J	1.3 J
RADIUM [226 + 228]	pCi/L	ND	ND	2.189	ND	ND	ND	ND	ND	ND	ND	ND
SELENIUM, TOTAL	µg/L	ND	ND	ND	ND	ND	ND	0.22 J	ND	ND	ND	ND
THALLIUM, TOTAL	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

NOTES
1. Unit Abbreviations: µg/L - micrograms per liter, mg/L - milligrams per liter, SU - standard units, pCi/L - picocuries per liter, mV - millivolts, mS/cm - millisiemens per centimeter, and NTU - nephelometric turbidity units.
2. J - Result is an estimated value.
3. NA - Not Applicable.
4. ND - Constituent was analyzed but was not detected above the Method Detection Limit (MDL) or the adjusted Practical Quantitation Limit (PQL) based on data validation and is considered a non-detect. Values displayed as ND.
5. Radium [226 + 228] is reported as the sum of the Radium 226 and the Radium 228 activity concentrations unless the sum of the Radium 226 and Radium 228 Minimum Detectable Concentrations (MDC) is higher in which case it is displayed as ND.

Prepared By: GTM
Checked By: JTR
Reviewed By: JSI

Table 10
April 2025 Assessment Monitoring Results
LCPA Surface Impoundment
Labadie Energy Center, Franklin County, MO

		BACKGROUND		GROUNDWATER MONITORING WELLS								
ANALYTE	UNITS	BMW-1D	BMW-2D	UMW-1D	UMW-2D	UMW-3D(R)	UMW-4D	UMW-5D	UMW-6D	UMW-7D	UMW-8D	UMW-9D
FIELD PARAMETERS												
DATE	NA	4/24/2025	4/24/2025	4/25/2025	4/30/2025	4/29/2025	4/25/2025	4/25/2025	4/25/2025	4/29/2025	4/29/2025	4/29/2025
DISSOLVED OXYGEN	mg/L	0.81	0.35	0.79	0.40	2.23	0.20	0.47	0.19	0.26	0.76	1.08
pH	SU	7.24	7.41	7.23	7.40	8.43	8.19	9.16	8.07	7.17	7.17	7.32
REDOX POTENTIAL	mV	-130.3	-130.5	-127.5	68.4	14.3	10.1	-56.3	-21.1	-22.2	-60.6	-97.2
SPECIFIC CONDUCTIVITY	mS/cm	0.730	0.700	1.049	0.910	0.633	0.777	0.986	1.423	0.877	0.577	0.799
TURBIDITY	NTU	4.89	5.51	1.68	1.61	1.55	0.94	1.31	3.18	2.60	3.83	2.29
APPENDIX IV PARAMETERS												
ANTIMONY, TOTAL	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
ARSENIC, TOTAL	µg/L	1.2	26.1	48.6	0.76 J	7.4	ND	15.6	10.1	29.9	13.3	28.1
BARIUM, TOTAL	µg/L	863	301	518	116	52.2	66.5	112	75.2	201	88.8	500
BERYLLIUM, TOTAL	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CADMIUM, TOTAL	µg/L	ND	ND	ND	ND	0.13 J	0.13 J	0.21 J	0.17 J	ND	ND	ND
CHROMIUM, TOTAL	µg/L	0.38 J	0.38 J	0.31 J	0.36 J	0.41 J	0.32 J	0.36 J	0.33 J	0.33 J	ND	ND
COBALT, TOTAL	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
FLUORIDE, TOTAL	mg/L	ND	ND	ND	0.15 J	ND	0.25	ND	ND	ND	ND	ND
LEAD, TOTAL	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
LITHIUM, TOTAL	µg/L	28.2	40.4	27.5	28.1	16.6	24.9	26.0	9.6 J	26.2	5.1 J	19.3
MERCURY, TOTAL	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	0.12 J	ND	ND
MOLYBDENUM, TOTAL	µg/L	2.4 J	1.4 J	3.3 J	30.7	384	369	554	493	43.0	3.2 J	1.0 J
RADIUM [226 + 228]	pCi/L	3.130 J	ND	ND	ND	ND	ND	2.070 J	ND	ND	ND	ND
SELENIUM, TOTAL	µg/L	ND	ND	ND	ND	0.26 J	ND	ND	ND	ND	ND	ND
THALLIUM, TOTAL	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

NOTES
1. Unit Abbreviations: µg/L - micrograms per liter, mg/L - milligrams per liter, SU - standard units, pCi/L - picocuries per liter, mV - millivolts, mS/cm - millisiemens per centimeter, and NTU - nephelometric turbidity units.
2. J - Result is an estimated value.
3. NA - Not Applicable.
4. ND - Constituent was analyzed but was not detected above the Method Detection Limit (MDL) or the adjusted Practical Quantitation Limit (PQL) based on data validation and is considered a non-detect. Values displayed as ND.
5. Radium [226 + 228] is reported as the sum of the Radium 226 and the Radium 228 activity concentrations unless the sum of the Radium 226 and Radium 228 Minimum Detectable Concentrations (MDC) is higher in which case it is displayed as ND.

Prepared By: JTR
Checked By: JDQ
Reviewed By: JSI

Table 11
October 2025 Assessment Monitoring Results
LCPA Surface Impoundment
Labadie Energy Center, Franklin County, MO

		BACKGROUND		GROUNDWATER MONITORING WELLS								
ANALYTE	UNITS	BMW-1D	BMW-2D	UMW-1D	UMW-2D	UMW-3D(R)	UMW-4D	UMW-5D	UMW-6D	UMW-7D	UMW-8D	UMW-9D
FIELD PARAMETERS												
DATE	NA	10/21/2025	10/21/2025	10/20/2025	10/20/2025	10/22/2025	10/21/2025	10/20/2025	10/21/2025	10/17/2025	10/17/2025	10/17/2025
DISSOLVED OXYGEN	mg/L	0.11	0.09	1.25	0.12	0.56	0.36	0.11	0.71	0.38	0.16	0.57
pH	SU	7.13	7.16	7.28	7.15	8.14	8.08	9.28	8.57	7.01	7.43	7.00
REDOX POTENTIAL	mV	34.2	48.9	-136.7	109.9	-145.4	-134.6	-126.3	-173.4	-111.0	-135.7	-121.3
SPECIFIC CONDUCTIVITY	mS/cm	0.906	0.879	0.920	1.086	0.748	0.747	0.949	1.435	0.796	0.782	0.718
TURBIDITY	NTU	0.64	1.00	4.19	3.50	1.59	2.64	0.59	0.97	3.24	2.92	2.02
APPENDIX IV PARAMETERS												
ANTIMONY, TOTAL	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
ARSENIC, TOTAL	µg/L	2.6	34.5	42.9	0.87 J	1.0	ND	16.7	17.5	33.6	11.8	29.8
BARIUM, TOTAL	µg/L	957	294	531	121	67.1	67.1	88.0	81.5	223	103	488
BERYLLIUM, TOTAL	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CADMIUM, TOTAL	µg/L	ND	ND	ND	ND	0.10 J	0.15 J	0.23 J	0.15 J	ND	ND	ND
CHROMIUM, TOTAL	µg/L	ND	0.36 J	0.50 J	ND	ND	ND	ND	ND	ND	ND	0.52 J
COBALT, TOTAL	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
FLUORIDE, TOTAL	mg/L	0.21	0.15	0.17	0.30	0.19	0.35	0.096 J	ND	0.15	0.13	0.17
LEAD, TOTAL	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
LITHIUM, TOTAL	µg/L	25.1	39.5	22.2	26.4	17.9	23.7	19.0	8.3 J	30.0	2.9 J	18.4
MERCURY, TOTAL	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MOLYBDENUM, TOTAL	µg/L	ND	ND	ND	33.0	341	429	660	442	40.9	4.8 J	1.3 J
RADIUM [226 + 228]	pCi/L	3.510	ND	2.626	1.667	ND	ND	ND	1.311	1.306	ND	ND
SELENIUM, TOTAL	µg/L	ND	ND	ND	ND	0.22 J	ND	0.19 J	ND	ND	ND	ND
THALLIUM, TOTAL	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

NOTES
1. Unit Abbreviations: µg/L - micrograms per liter, mg/L - milligrams per liter, SU - standard units, pCi/L - picocuries per liter, mV - millivolts, mS/cm - millisiemens per centimeter, and NTU - nephelometric turbidity units.
2. J - Result is an estimated value.
3. NA - Not Applicable.
4. ND - Constituent was analyzed but was not detected above the Method Detection Limit (MDL) or the adjusted Practical Quantitation Limit (PQL) based on data validation and is considered a non-detect. Values displayed as ND.
5. Radium [226 + 228] is reported as the sum of the Radium 226 and the Radium 228 activity concentrations unless the sum of the Radium 226 and Radium 228 Minimum Detectable Concentrations (MDC) is higher in which case it is displayed as ND.

Prepared By: GTM
Checked By: JDQ
Reviewed By: MNH

Table 12
October-November 2024 Corrective Action Monitoring Results
LCPA Surface Impoundment
Labadie Energy Center, Franklin County, MO

ANALYTE	UNITS	BMW-1S	BMW-2S	LMW-1S	LMW-2S	LMW-4S	LMW-7S	LMW-8S	MW-24	MW-26	S-1	AM-1S	TP-1D	TP-2M	TP-2D	TP-3M	TP-3D	TP-4D	MW-33(D)	MW-34(D)	MW-35(D)	AMW-8	AM-1D
FIELD PARAMETERS																							
DATE	NA	10/28/2024	10/28/2024	10/30/2024	11/1/2024	10/30/2024	10/29/2024	10/29/2024	10/30/2024	10/30/2024	10/30/2024	11/1/2024	10/29/2024	11/1/2024	11/1/2024	10/29/2024	10/29/2024	10/29/2024	10/30/2024	10/30/2024	10/30/2024	10/31/2024	11/1/2024
DISSOLVED OXYGEN	mg/L	0.15	3.04	0.23	0.24	0.92	0.49	2.01	0.24	2.74	0.24	0.13	0.12	0.24	0.19	0.12	0.14	0.14	0.25	0.24	0.24	1.40	0.12
REDOX POTENTIAL	mV	-42.2	129.6	47.6	-114.1	-46.2	-25.7	112.0	116.0	126.4	133.7	64.2	49.4	6.8	-19.4	48.3	45.0	55.4	14.5	48.8	84.8	-113.2	2.7
SPECIFIC CONDUCTIVITY	mS/cm	1.234	0.732	0.613	0.742	1.320	0.846	0.404	0.681	0.842	0.772	1.375	0.847	0.980	0.930	0.885	1.074	0.872	1.275	0.979	0.901	0.787	1.110
TURBIDITY	NTU	1.66	0.80	4.95	1.61	8.29	4.19	3.85	0.96	1.04	1.30	4.10	1.22	3.72	0.63	1.26	1.24	1.83	0.94	0.84	1.04	1.47	3.94
APPENDIX III PARAMETERS																							
BORON, TOTAL	µg/L	84.8 J	45.4 J	772	3,490	2,950	4,870	721	110	61.4 J	93.7 J	316	59.1 J	1,430	2,440	4,440	9,310	6,840	8,010	9,190	6,760	6,890	7,540
CALCIUM, TOTAL	µg/L	202,000	121,000	99,700	73,800	168,000	162,000	82,300	124,000	157,000	152,000	187,000	139,000	106,000	102,000	118,000	98,800	127,000	148,000	110,000	121,000	67,200	110,000
CHLORIDE, TOTAL	mg/L	4.5	1.8	2.1	20.0	86.4	9.2	1.2	5.3	17.7	2.4	115 J	3.1	29.8	35.7	25.5	31.8	16.1	27.2	24.0	13.3	30.0	55.2
pH	SU	6.47	6.92	6.94	9.56	6.77	6.79	6.97	6.46	6.67	6.63	6.28	6.87	7.36	7.09	6.71	6.86	6.67	7.05	6.90	6.93	7.63	7.03
SULFATE, TOTAL	mg/L	95.1	13.7	22.5	326 J	106	149	24.7	29.0	28.5	21.5 J	14.9 J	21.5	211 J	194 J	164	532 J	221	671	376	167	274	358 J
TOTAL DISSOLVED SOLIDS	mg/L	744	436	364	506	777	697	349	454	572	527	788	536	592	581	613	869	628	176	773	695	544	732
APPENDIX IV PARAMETERS																							
ANTIMONY, TOTAL	µg/L	ND	0.20 J	ND	ND	ND	ND	ND	0.19 J	0.12 J	0.16 J	ND	ND	ND	0.20 J	ND	ND	ND	ND	ND	ND	ND	ND
ARSENIC, TOTAL	µg/L	18.0	0.41 J	2.3	39.6	18.1	11.7	3.0	0.91 J	0.47 J	0.49 J	2.0	1.2	0.40 J	10.8	0.36 J	6.5	7.5	3.2	3.3	0.14 J	0.16 J	4.0
BARIUM, TOTAL	µg/L	329	236	125	45.4	161	222	161	175	226	373	584	1,440	132	122	263	75.7	388	143	102	57.6	111	69.2
BERYLLIUM, TOTAL	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.33 J	ND	ND	ND	ND	ND	ND	ND	ND	ND
CADMIUM, TOTAL	µg/L	ND	0.051 J	0.063 J	0.072 J	0.057 J	0.097 J	ND	0.066 J	ND	0.089 J	0.11 J	ND	ND	0.058 J	0.074 J	0.19 J	ND	0.26 J	0.27 J	0.15 J	0.11 J	0.12 J
CHROMIUM, TOTAL	µg/L	ND	ND	1.7	0.33 J	0.38 J	ND	ND	ND	2.1	1.7	0.34 J	ND	0.39 J	0.33 J	0.36 J	ND	ND	1.9 J	1.6	1.9	1.7 J	0.64 J
COBALT, TOTAL	µg/L	1.7 J	ND	ND	ND	2.6 J	2.5 J	ND	ND	ND	ND	2.4 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
FLUORIDE, TOTAL	mg/L	ND	ND	ND	ND	ND	ND	0.21	ND	ND	ND	ND	ND	ND	0.22	ND	ND	ND	ND	ND	ND	0.21	ND
LEAD, TOTAL	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
LITHIUM, TOTAL	µg/L	17.2	17.6	13.1	14.4	32.2	39.9	16.6	23.3	28.6	24.7	36.6	23.2	33.9	39.5	35.8	31.1	25.3	37.0	35.7	27.3	20.7	33.5
MERCURY, TOTAL	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MOLYBDENUM, TOTAL	µg/L	ND	1.9 J	3.0 J	209	62.3	69.9	53.5	1.3 J	ND	ND	1.8 J	ND	82.8	124	207	497	4.1 J	661	738	387	285	329
RADIUM [226 + 228]	pCi/L	2.466	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.280	ND	ND	2.245	ND	3.170 J	ND	ND	ND	ND	ND
SELENIUM, TOTAL	µg/L	ND	7.0	3.0	ND	0.41 J	2.0	1.5	12.4	6.2	8.5	0.49 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
THALLIUM, TOTAL	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
ADDITIONAL PARAMETERS																							
ALKALINITY	mg/L	628	353	314	41.0	506	473	294	377	469	495	599	506	275	264	332	119	312	98.1	197	387	98.1	175
IRON, TOTAL	µg/L	27,000	ND	663	ND	5,850	2,840	426	ND	46.2 J	37.4 J	7,160	8,290	3,770	3,980	8,840	4,540	5,730	7,090	6,280	5,750	2,390	5,730
MAGNESIUM, TOTAL	µg/L	36,700	17,600	16,000	97.8	26,900	30,400	12,900	24,100	27,600	21,100	37,800	34,100	16,200	18,000	24,400	21,100	32,500	29,200	25,400	27,500	11,900	13,100
MANGANESE, TOTAL	µg/L	2,570	3.4 J	454	ND	1,540	966	71.2	24.2	79.2	196	1,130	241	467	360	1,390	178	352	392	291	415	327	285
POTASSIUM, TOTAL	µg/L	5,040	5,320	4,330	9,330	6,830	6,820	4,360	5,780	4,900	27,200	7,070	4,140	6,740	5,770	5,680	6,980	4,990	8,350	7,190	5,470	5,880	8,560
SODIUM, TOTAL	µg/L	10,900	4,600	7,700	68,100	64,800	38,200	26,700	7,590	7,530	5,500	49,800	10,900	71,800	64,200	55,800	119,000	28,600	108,000	81,900	64,600	78,100	106,000

NOTES
1. Unit Abbreviations: µg/L - micrograms per liter, mg/L - milligrams per liter, SU - standard units, pCi/L - picocuries per liter, mV - millivolts, mS/cm - millisiemens per centimeter, and NTU - nephelometric turbidity units.
2. J - Result is an estimated value.
3. ND - Constituent was analyzed but was not detected above the Method Detection Limit (MDL) or the adjusted Practical Quantitation Limit (PQL) based on data validation and is considered a non-detect. Values displayed as ND.
4. Radium [226 + 228] is reported as the sum of the Radium 226 and the Radium 228 activity concentrations unless the sum of the Radium 226 and Radium 228 Minimum Detectable Concentrations (MDC) is higher in which case it is displayed as ND.
5. NA - Not Applicable.

Prepared By: GTM
Checked By: JTR
Reviewed By: MNH

Table 13
April 2025 Corrective Action Monitoring Results
LCPA Surface Impoundment
Labadie Energy Center, Franklin County, MO

ANALYTE	UNITS	BMW-1S	BMW-2S	LMW-1S	LMW-2S	LMW-4S	LMW-7S	LMW-8S	MW-24	MW-26	S-1	AM-1S	TP-1D	TP-2M	TP-2D	TP-3M	TP-3D	TP-4D	MW-33(D)	MW-34(D)	MW-35(D)	AMW-8	AM-1D
FIELD PARAMETERS																							
DATE	NA	4/24/2025	4/24/2025	4/29/2025	4/25/2025	4/28/2025	4/30/2025	4/30/2025	4/28/2025	4/30/2025	4/30/2025	4/29/2025	4/25/2025	4/30/2025	4/30/2025	4/24/2025	4/24/2025	4/24/2025	4/24/2025	4/28/2025	4/28/2025	4/28/2025	4/29/2025
DISSOLVED OXYGEN	mg/L	0.69	0.42	0.89	0.20	0.19	0.48	0.53	2.22	0.90	0.27	0.88	1.02	0.56	0.73	0.31	0.43	0.27	0.41	1.40	1.03	0.85	0.22
REDOX POTENTIAL	mV	-117.0	-16.4	15.1	-7.0	-9.0	-35.8	27.1	46.7	46.4	78.3	32.5	-88.3	-56.8	-60.7	-20.0	-13.4	-17.3	-34.1	-60.7	-92.3	1.9	30.3
SPECIFIC CONDUCTIVITY	mS/cm	1.260	0.762	0.454	0.659	1.014	0.713	0.432	0.558	0.792	0.746	1.301	0.883	0.949	0.823	0.876	1.142	0.900	1.104	0.947	0.930	0.790	0.983
TURBIDITY	NTU	8.30	1.20	1.93	2.06	4.24	4.35	2.01	2.93	2.26	2.58	4.33	4.02	5.03	3.95	4.75	4.28	4.97	3.23	3.12	4.31	2.82	2.17
APPENDIX III PARAMETERS																							
BORON, TOTAL	µg/L	103	56.7 J	16.4 J	3,660	7,390	5,200	647	78.4 J	76.6 J	103	341	64.2 J	1,040	1,810	5,730	8,720	8,020	8,500	7,610	5,440	7,000	6,400
CALCIUM, TOTAL	µg/L	204,000	143,000	ND	66,600	117,000	81,100	64,300	97,100	136,000 J	127,000	177,000	136,000 J	111,000	97,200	94,600	97,400	126,000	115,000	117,000	132,000	75,900	104,000
CHLORIDE, TOTAL	mg/L	7.2	3.5	1.4	17.7	35.1	9.3	1.5	3.1 J	7.3	2.1 J	163	3.8	34.5	52.9	29.7	30.9	15.9	28.3	14.3	9.9	28.9 J	48.8
pH	SU	6.98	7.26	6.95	9.31	6.96	6.85	7.24	6.81	6.94	6.92	6.78	7.08	7.26	7.26	7.12	7.22	7.05	7.11	7.00	7.03	7.61	7.41
SULFATE, TOTAL	mg/L	77.8	71.6	14.1	256	214	125	15.6	16.8	29.3	14.4	12.5	20.7	228	331	243	490	202	489	204	112	286	283
TOTAL DISSOLVED SOLIDS	mg/L	831	531	295	490	740	498	294	375	522	502	810	529	671	576	629	888	711	863	700	651	586	717
APPENDIX IV PARAMETERS																							
ANTIMONY, TOTAL	µg/L	ND	0.24 J	ND	ND	ND	ND	ND	0.17 J	ND	ND	ND	ND	ND	ND	ND	ND	0.18 J	ND	ND	ND	ND	ND
ARSENIC, TOTAL	µg/L	35.7	0.48 J	1.9	39.0	24.9	21.9	13.0	0.76 J	0.45 J	0.46 J	2.9	1.1	0.43 J	11.1	0.33 J	8.1	7.4	1.3	3.7	0.19 J	0.34 J	2.8
BARIUM, TOTAL	µg/L	329	292	ND	44.0	150	134	162	124	214	347	559	1,410	140	118	212	69.6	386	94.0	102	78.7	121	70.2
BERYLLIUM, TOTAL	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CADMIUM, TOTAL	µg/L	ND	0.062 J	ND	0.065 J	0.073 J	0.084 J	0.11 J	ND	ND	0.12 J	ND	ND	ND	0.050 J	0.11 J	0.16 J	ND	0.25 J	0.19 J	0.10 J	0.11 J	0.11 J
CHROMIUM, TOTAL	µg/L	0.58 J	0.34 J	0.34 J	0.42 J	0.41 J	0.36 J	ND	0.48 J	0.38 J	ND	ND	0.65 J	0.45 J	0.78 J	0.35 J	0.34 J	0.47 J	0.45 J	0.43 J	0.49 J	0.50 J	ND
COBALT, TOTAL	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.2 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
FLUORIDE, TOTAL	mg/L	ND	ND	0.26	ND	ND	0.17 J	0.39	0.22	ND	ND	ND	ND	0.41	0.44	ND	ND	ND	ND	ND	ND	0.25	0.24
LEAD, TOTAL	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
LITHIUM, TOTAL	µg/L	21.5	23.5	ND	13.8	38.0	27.1	16.8	13.1	29.1	26.1	35.6	24.9	32.4	40.6	27.2	31.1	23.5	32.5	35.0	29.3	17.4	31.9
MERCURY, TOTAL	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MOLYBDENUM, TOTAL	µg/L	ND	1.3 J	ND	177	163	164	128	ND	ND	ND	3.7 J	1.5 J	66.0	118	297	401	6.1 J	634	473	266	288	310
RADIUM [226 + 228]	pCi/L	2.156	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.120	ND	ND	ND	ND	1.956	ND	ND	2.049	2.790 J	ND
SELENIUM, TOTAL	µg/L	ND	0.26 J	0.64 J	ND	ND	ND	0.47 J	8.3	3.4	0.82 J	0.45 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
THALLIUM, TOTAL	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
ADDITIONAL PARAMETERS																							
ALKALINITY	mg/L	668	372	259	36.0	337	255	236	306	432	440	485	467	275	255	204	108	281	103	335	424	111	194
IRON, FERRIC, TOTAL	mg/L	ND	ND	ND	ND	ND	ND	2.4	ND	ND	ND	1.2	ND	0.0 J	0.0 J	ND	ND	ND	ND	ND	ND	ND	ND
IRON, FERROUS, TOTAL	mg/L	34.1 J	ND	0.92 J	0.074 J	12.2 J	5.4 J	0.13 J	ND	ND	ND	1.7 J	12.0 J	5.5 J	5.7 J	9.7 J	6.3 J	8.3 J	7.8 J	10.1 J	9.4 J	2.9 J	6.7 J
IRON, TOTAL	µg/L	25,700	ND	ND	ND	8,610	3,890	2,500	62.1	ND	ND	2,900	8,510	4,030	3,720	6,740	4,330	6,130	5,720	7,060	6,680	1,910	4,870
MAGNESIUM, TOTAL	µg/L	51,800	23,000	ND	90.8	22,200	16,800	10,700	18,700	24,900	19,500	36,400	33,600	16,900	17,200	19,600	21,100	31,100	23,600	28,100	30,100	11,700	12,200
MANGANESE, TOTAL	µg/L	2,500	2.6 J	ND	1.7 J	1,740	641	343	2.0 J	151	504	627	264	479	347	1,050	178	342	325	313	448	356	278
POTASSIUM, TOTAL	µg/L	5,780	6,070	ND	9,190	6,900	5,340	3,380	3,840	4,740	22,900	7,470	4,390	6,680	5,650	5,080	6,760	4,860	7,070	6,920	5,280	6,630	8,910
SODIUM, TOTAL	µg/L	20,200	4,550	ND	64,200	86,000	52,200	18,400	5,450	10,900	3,600	60,400	10,400	73,200	59,100	63,000	114,000	32,100	91,100	59,600	39,100	76,600	97,700
SULFIDE, TOTAL	mg/L	ND	ND	ND	ND	0.019 J	ND	ND	ND	ND	ND	ND	0.016 J	ND	ND	ND	0.028 J	0.019 J	0.018 J	0.023 J	0.042 J	0.018 J	0.016 J

NOTES
1. Unit Abbreviations: µg/L - micrograms per liter, mg/L - milligrams per liter, SU - standard units, pCi/L - picocuries per liter, mV - millivolts, mS/cm - millisiemens per centimeter, and NTU - nephelometric turbidity units.
2. J - Result is an estimated value.
3. ND - Constituent was analyzed but was not detected above the Method Detection Limit (MDL) or the adjusted Practical Quantitation Limit (PQL) based on data validation and is considered a non-detect. Values displayed as ND.
4. Radium [226 + 228] is reported as the sum of the Radium 226 and the Radium 228 activity concentrations unless the sum of the Radium 226 and Radium 228 Minimum Detectable Concentrations (MDC) is higher in which case it is displayed as ND.
5. NA - Not Applicable.

Prepared By: JTR
Checked By: JDQ
Reviewed By: MNH

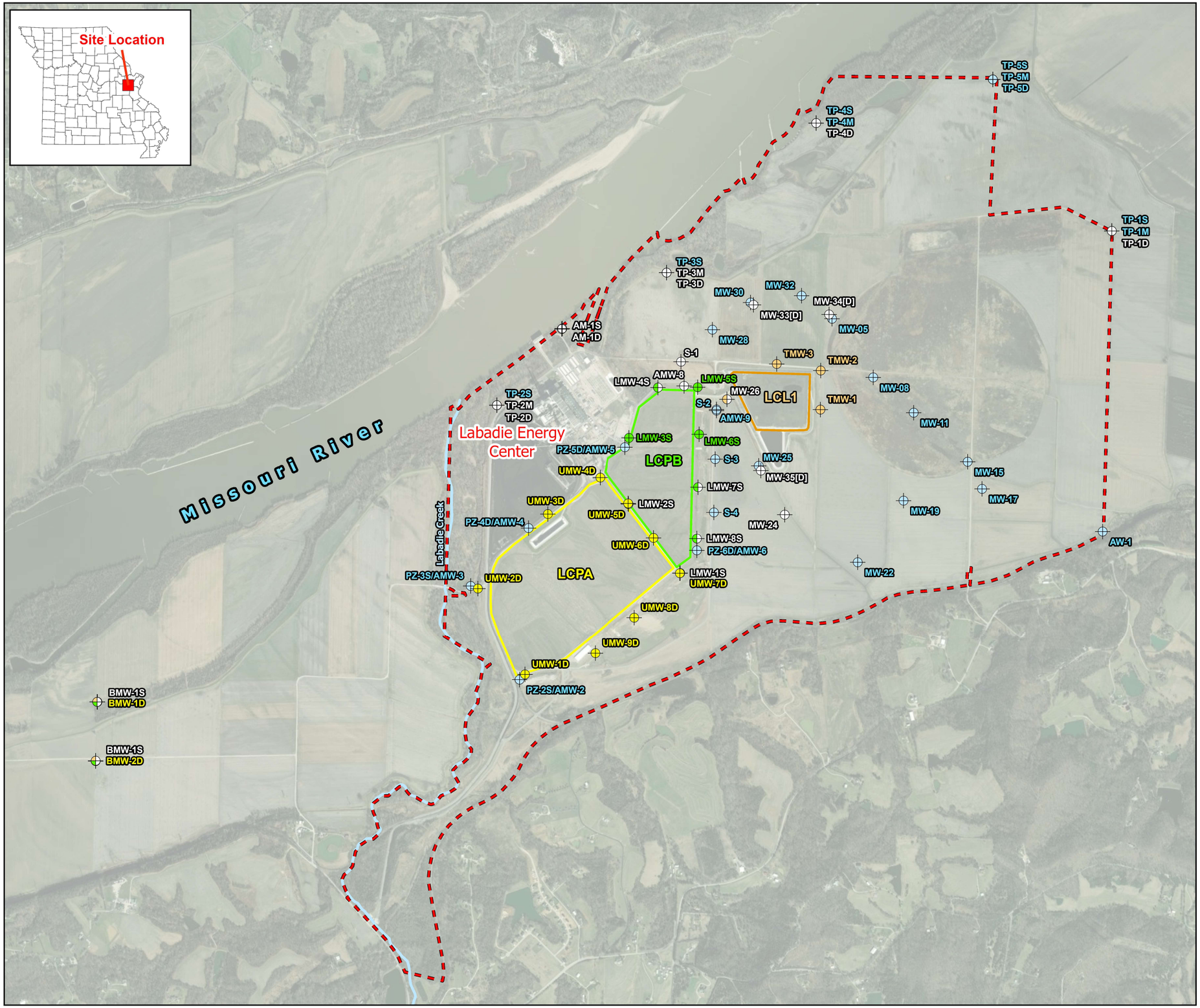
Table 14
October 2025 Corrective Action Monitoring Results
LCPA Surface Impoundment
Labadie Energy Center, Franklin County, MO

ANALYTE	UNITS	BMW-1S	BMW-2S	LMW-1S	LMW-2S	LMW-4S	LMW-7S	LMW-8S	MW-24	MW-26	S-1	AM-1S	TP-1D	TP-2M	TP-2D	TP-3M	TP-3D	TP-4D	MW-33(D)	MW-34(D)	MW-35(D)	AMW-8	AM-1D
FIELD PARAMETERS																							
DATE	NA	10/21/2025	10/21/2025	10/17/2025	10/20/2025	10/22/2025	10/17/2025	10/17/2025	10/21/2025	10/21/2025	10/21/2025	10/20/2025	10/20/2025	10/20/2025	10/20/2025	10/17/2025	10/17/2025	10/17/2025	10/17/2025	10/17/2025	10/21/2025	10/21/2025	10/20/2025
DISSOLVED OXYGEN	mg/L	0.11	0.63	0.20	0.26	0.26	0.07	0.93	0.10	1.71	0.16	0.48	0.83	1.71	0.58	0.60	0.54	1.03	0.76	0.92	0.13	0.63	0.14
REDOX POTENTIAL	mV	-5.9	140.5	-27.2	-153.6	-50.4	106.0	33.3	158.9	147.5	142.8	148.7	72.8	-129.6	-121.0	-9.5	-67.4	-28.3	-10.0	-12.1	37.1	-142.9	-31.5
SPECIFIC CONDUCTIVITY	mS/cm	1.257	0.651	0.423	0.649	1.223	1.082	0.427	0.756	0.876	0.943	1.395	0.746	0.872	0.750	0.780	1.011	0.784	1.177	0.842	1.040	0.803	1.115
TURBIDITY	NTU	0.64	0.94	0.88	2.74	4.48	4.95	2.63	0.58	0.35	0.60	1.47	2.13	4.94	2.45	3.20	0.98	1.70	1.14	1.24	0.74	2.16	4.44
APPENDIX III PARAMETERS																							
BORON, TOTAL	µg/L	83.9 J	51.5 J	485	3,980	3,750	2,910	287	94.1 J	66.1 J	75.6 J	318	51.2 J	1,020	1,320	5,060	9,110	7,400	8,270	8,870	5,660	6,930	6,440
CALCIUM, TOTAL	µg/L	191,000	130,000	82,000	77,000	162,000	175,000	75,000	111,000	128,000	142,000	178,000	137,000	119,000	105,000 J	101,000	102,000	120,000	153,000	115,000 J	135,000	70,900	96,000
CHLORIDE, TOTAL	mg/L	5.3	1.4	2.2	14.5	67.0	6.6	0.78 J	3.2	6.2	0.73 J	39.9	4.9	26.3	23.3	21.0	22.8	16.3	19.6	15.7	10.2	20.2	31.4
pH	SU	6.68	6.96	7.19	9.71	6.72	6.68	7.19	6.91	6.85	6.78	6.64	6.98	7.63	7.52	7.09	7.70	7.16	7.51	7.27	7.15	6.29	7.31
SULFATE, TOTAL	mg/L	57.7	13.4	23.8	302	114	86.5	19.9	22.8	17.2	12.0	13.6	17.6	239	168	178	460	198	652	216	92.5	280	827 J
TOTAL DISSOLVED SOLIDS	mg/L	660	466	306	553	735	687	310	411	469	514	764	540	682	583	607	839	ND	1,050	675 J	594	580	716
APPENDIX IV PARAMETERS																							
ANTIMONY, TOTAL	µg/L	ND	0.21 J	ND	ND	ND	ND	ND	0.17 J	0.12 J	0.14 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
ARSENIC, TOTAL	µg/L	15.3	0.40 J	1.8	42.5	20.6	5.5	1.6	0.97 J	0.40 J	0.46 J	0.99 J	1.0	0.42 J	11.1	0.38 J	6.7	7.8	3.4	3.7	0.14 J	0.16 J	3.6
BARIUM, TOTAL	µg/L	319	254	133	50.4	187	226	189	161	197	359	561	1,420	150	125	234	81.9	379	103	105	94.8	116	62.3
BERYLLIUM, TOTAL	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.41 J	ND	ND	ND	ND	ND	ND	ND
CADMIUM, TOTAL	µg/L	ND	ND	ND	0.077 J	ND	0.080 J	ND	ND	ND	0.068 J	ND	ND	ND	ND	0.078 J	0.14 J	ND	0.21 J	0.17 J	0.094 J	0.095 J	0.11 J
CHROMIUM, TOTAL	µg/L	ND	0.47 J	ND	ND	ND	ND	ND	ND	0.39 J	ND	ND	0.40 J	ND	ND	ND	0.50 J	ND	ND	ND	ND	23.2	0.45 J
COBALT, TOTAL	µg/L	1.9 J	ND	ND	ND	2.6 J	3.0 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
FLUORIDE, TOTAL	mg/L	0.075 J	0.14	0.25	0.10	0.15	0.15	0.38	0.19	0.12	0.12	0.22	0.16	0.40	0.40	0.23	0.29	0.18	0.24	0.21	0.23	0.32	0.41
LEAD, TOTAL	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
LITHIUM, TOTAL	µg/L	22.3	19.7	8.0 J	14.3	32.7	44.2	14.6	18.3	23.3	20.4	30.3	24.8	38.6	38.6	31.1	31.2	24.5	37.9	34.9	31.5	18.2	25.9
MERCURY, TOTAL	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MOLYBDENUM, TOTAL	µg/L	ND	2.0 J	3.5 J	236	70.8	56.6	45.7	1.8 J	ND	0.86 J	2.4 J	1.1 J	66.2	115	234	446	6.2 J	640	518	292	276	313
RADIUM [226 + 228]	pCi/L	2.242	ND	ND	ND	ND	ND	ND	ND	ND	1.341	ND	3.120	2.118	2.043 J	1.465	1.197	3.560	ND	1.873	ND	ND	ND
SELENIUM, TOTAL	µg/L	ND	2.8	1.6	0.20 J	0.32 J	3.2	2.3	1.4	3.0	1.1	1.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
THALLIUM, TOTAL	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
ADDITIONAL PARAMETERS																							
ALKALINITY	mg/L	575	378	246	44.0	464	556	254	364	409	472	649	484	285	273	276 J	104	290	92.0	320	431	115	170
IRON, TOTAL	µg/L	24,100	36.3 J	219	ND	7,850	1,830	142	80.6	ND	17.1 J	989	8,570	3,800	3,860	7,470	4,760	5,510	7,330	7,170	6,700	2,530	4,710
MAGNESIUM, TOTAL	µg/L	34,500	19,300	13,100	106	26,100	33,100	11,800	21,700	22,300	19,200	37,900	34,000	18,400	18,300	21,300	21,900	31,100	29,800	27,500	30,700	12,500	11,200
MANGANESE, TOTAL	µg/L	2,540	4.0 J	324	1.5 J	1,660	1,070	12.8	187	17.4	139	1,040	269	503	351	1,130	186	337	394	306	444	340	230
POTASSIUM, TOTAL	µg/L	5,230	5,390	3,030	9,650	6,960	6,980	3,530	5,030	4,510	22,300	6,610	4,250	7,250	5,950	5,360	6,890	4,830	8,210	6,900	5,250	5,540	8,140
SODIUM, TOTAL	µg/L	8,740	4,280	5,980	68,900	65,000	30,500	14,100	6,330	8,100	6,630	51,500	10,600	74,300	59,000	62,700	116,000	31,700	107,000	64,600	36,100	75,300	93,900

NOTES
1. Unit Abbreviations: µg/L - micrograms per liter, mg/L - milligrams per liter, SU - standard units, pCi/L - picocuries per liter, mV - millivolts, mS/cm - millisiemens per centimeter, and NTU - nephelometric turbidity units.
2. J - Result is an estimated value.
3. ND - Constituent was analyzed but was not detected above the Method Detection Limit (MDL) or the adjusted Practical Quantitation Limit (PQL) based on data validation and is considered a non-detect. Values displayed as ND.
4. Radium [226 + 228] is reported as the sum of the Radium 226 and the Radium 228 activity concentrations unless the sum of the Radium 226 and Radium 228 Minimum Detectable Concentrations (MDC) is higher in which case it is displayed as ND.
5. NA - Not Applicable.

Prepared By: GTM
Checked By: JDQ
Reviewed By: MNH

Figures



TITLE

LABADIE ENERGY CENTER GROUNDWATER MONITORING PROGRAMS AND MONITORING WELL LOCATION MAP

Legend

Approximate Property Boundary

Labadie Energy Center CCR Units

- LCPA - Closed Bottom Ash Surface Impoundment
- LCPB - Closed Fly Ash Surface Impoundment
- LCL1 - Utility Waste Landfill Cell 1

Monitoring Well Network

- Corrective Action Monitoring Well
- LCPA Monitoring Well
- LCPB Monitoring Well
- LCPB and Corrective Action Monitoring Well
- LCL1 Monitoring Well
- LCL1 and Corrective Action Monitoring Well
- Background Well Used for LCPA, Corrective Action, LCPB, and LCL1 Monitoring
- Monitoring Well Used for Water Level Elevation Measurements Only

NOTES

1. All locations and boundaries are approximate.

REFERENCES

1. Zahner and Associates, Inc. 2016. Lot Consolidation Plat of "Labadie Energy Center" - Prepared for Ameren Missouri. Revised June 15, 2016.
2. USGS (United States Geological Survey), National Water Information System, USGS Gauge 06935550 Missouri River near Labadie, MO.

0 700 1,400 2,800 4,200 5,600 Feet

PROJECT
CCR RULE GROUNDWATER MONITORING PROGRAM

CLIENT
AMEREN MISSOURI
LABADIE ENERGY CENTER

ROCKSMITH GEOENGINEERING

DESIGN	JSI	YYYY-MM-DD	2026-01-12
PREPARED	JSI	PROJECT No.	23007-25
REVIEW	GTM		
APPROVED	MNH		

FIGURE 1

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: 1 in 0

Path: C:\Users\JackRasmussen\Rocksmith Geoengineering LLC\23007 - Ameren GW - Documents\400 - Drawings, Figures\4.1 LEC\4.1.2 - Production\Other Maps\Annual Report Figure 1.aprx

Appendix A
Laboratory Analytical Data

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

February 20, 2025

Mark Haddock
Rocksmith Geoengineering, LLC.
2320 Creve Coeur Mill Road
Maryland Heights, MO 63043

RE: Project: AMEREN LCPA-VERIFICATION
Pace Project No.: 60469032

Dear Mark Haddock:

Enclosed are the analytical results for sample(s) received by the laboratory on February 06, 2025. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Kansas City

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Jamie Church
jamie.church@pacelabs.com
314-838-7223
Project Manager

Enclosures

cc: Jeffrey Ingram, Rocksmith Geoengineering, LLC.
Lisa Meyer, Ameren
Grant Morey, Rocksmith Geoengineering, LLC.
Austin Nieman, Ameren

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

CERTIFICATIONS

Project: AMEREN LCPA-VERIFICATION
Pace Project No.: 60469032

Pace Analytical Services Kansas
9608 Loiret Boulevard, Lenexa, KS 66219
Arkansas Certification #: 88-00679
Illinois Certification #: 2000302023-6
Colorado Division of Oil and Public Safety
Iowa Certification #: 118
Kansas Field Laboratory Certification #: E-92587
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Missouri Inorganic Drinking Water Certification
Nevada Certification #: KS000212024-1
Oklahoma Certification #: 2023-073
Texas Certification #: T104704407-23-17
Utah Certification #: KS000212022-13

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

SAMPLE SUMMARY

Project: AMEREN LCPA-VERIFICATION
Pace Project No.: 60469032

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60469032001	**L-UMW-1D**	Water	02/04/25 09:03	02/06/25 05:45
60469032002	**L-UMW-FB-1**	Water	02/04/25 09:00	02/06/25 05:45
60469032003	**L-UMW-DUP-1**	Water	02/04/25 00:00	02/06/25 05:45

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

SAMPLE ANALYTE COUNT

Project: AMEREN LCPA-VERIFICATION
Pace Project No.: 60469032

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60469032001	**L-UMW-1D**	SM 2540C	TML	1	PASI-K
60469032002	**L-UMW-FB-1**	SM 2540C	TML	1	PASI-K
60469032003	**L-UMW-DUP-1**	SM 2540C	TML	1	PASI-K

PASI-K = Pace Analytical Services - Kansas City

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA-VERIFICATION
Pace Project No.: 60469032

Sample: L-UMW-1D **Lab ID: 60469032001** Collected: 02/04/25 09:03 Received: 02/06/25 05:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City								
Total Dissolved Solids	**654**	mg/L	20.0	20.0	1		02/14/25 14:41		H1

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA-VERIFICATION
Pace Project No.: 60469032

Sample: L-UMW-FB-1 **Lab ID: 60469032002** Collected: 02/04/25 09:00 Received: 02/06/25 05:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City								
Total Dissolved Solids	**<5.0**	mg/L	5.0	5.0	1		02/14/25 14:41		H1

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA-VERIFICATION
Pace Project No.: 60469032

Sample: L-UMW-DUP-1 **Lab ID: 60469032003** Collected: 02/04/25 00:00 Received: 02/06/25 05:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City								
Total Dissolved Solids	**658**	mg/L	20.0	20.0	1		02/14/25 14:42		H1

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: AMEREN LCPA-VERIFICATION
Pace Project No.: 60469032

QC Batch: 925074
QC Batch Method: SM 2540C
Analysis Method: SM 2540C
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60469032001, 60469032002, 60469032003

METHOD BLANK: 3663710 Matrix: Water
Associated Lab Samples: 60469032001, 60469032002, 60469032003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<5.0	5.0	5.0	02/14/25 14:41	

LABORATORY CONTROL SAMPLE: 3663711

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	1000	1010	101	80-120	

SAMPLE DUPLICATE: 3663712

Parameter	Units	60469032001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	654	672	3	10	H1

SAMPLE DUPLICATE: 3663713

Parameter	Units	60469213004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	497	503	1	10	H1

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALIFIERS

Project: AMEREN LCPA-VERIFICATION
Pace Project No.: 60469032

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

H1 Analysis conducted outside the EPA method holding time.

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: AMEREN LCPA-VERIFICATION
Pace Project No.: 60469032

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60469032001	**L-UMW-1D**	SM 2540C	925074		
60469032002	**L-UMW-FB-1**	SM 2540C	925074		
60469032003	**L-UMW-DUP-1**	SM 2540C	925074		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

WO# : 60469032

60469032

Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-LENE-0009_Sample		
	Revision: 2	Effective Date: 01/12/2022	Issued By: Lenexa

Client Name: Rocksmith Brewing

Courier: FedEx ☐ UPS ☐ VIA ☐ Clay ☐ PEX ☐ ECI ☐ Pace ☐ Xroads ☑ Client ☐ Other ☐

Tracking #: _____ Pace Shipping Label Used? Yes ☐ No ☑

Custody Seal on Cooler/Box Present: Yes ☑ No ☐ Seals intact: Yes ☑ No ☐

Packing Material: Bubble Wrap ☐ Bubble Bags ☐ Foam ☐ None ☑ Other ☐

Thermometer Used: T-301 **Type of Ice:** (Wet) Blue None

Cooler Temperature (°C): As-read 1.6 Corr. Factor +0.1 Corrected 1.7

Date and initials of person examining contents: 2/6/25

Temperature should be above freezing to 6°C

Chain of Custody present:	☑Yes ☐No ☐N/A	
Chain of Custody relinquished:	☑Yes ☐No ☐N/A	
Samples arrived within holding time:	☑Yes ☐No ☐N/A	
Short Hold Time analyses (<72hr):	☐Yes ☑No ☐N/A	
Rush Turn Around Time requested:	☐Yes ☑No ☐N/A	
Sufficient volume:	☑Yes ☐No ☐N/A	
Correct containers used:	☑Yes ☐No ☐N/A	
Pace containers used:	☑Yes ☐No ☐N/A	
Containers intact:	☑Yes ☐No ☐N/A	
Unpreserved 5035A / TX1005/1006 soils frozen in 48hrs?	☐Yes ☐No ☑N/A	
Filtered volume received for dissolved tests?	☐Yes ☑No ☐N/A	
Sample labels match COC: Date / time / ID / analyses	☑Yes ☐No ☐N/A	
Samples contain multiple phases? Matrix: WT	☐Yes ☑No ☐N/A	
Containers requiring pH preservation in compliance? (HNO_3, H_2SO_4, HCl<2; NaOH>9 Sulfide, NaOH>10 Cyanide) (Exceptions: VOA, Micro, O&G, KS TPH, OK-DRO) **LOT#:**	☐Yes ☐No ☑N/A	List sample IDs, volumes, lot #'s of preservative and the date/time added.
Cyanide water sample checks: Lead acetate strip turns dark? (Record only)	☐Yes ☐No	
Potassium iodide test strip turns blue/purple? (Preserve)	☐Yes ☐No	
Trip Blank present:	☐Yes ☐No ☑N/A	
Headspace in VOA vials (>6mm):	☐Yes ☐No ☑N/A	
Samples from USDA Regulated Area: State:	☐Yes ☐No ☑N/A	
Additional labels attached to 5035A / TX1005 vials in the field?	☐Yes ☐No ☑N/A	

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: _____

Qualtrax Document ID: 30468

Page 1 of 1

Pace Analytical
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information:

Company:	Rocksmith Geoengineering, LLC
Address:	5233 Roanoke Drive
	St. Charles, MO 63304
Email To:	mark.haddock@rocksmithgeo.com
Phone: 314-974-5678	Fax:
Requested Due Date/TAT:	Standard

Section B Required Project Information:

Report To:	Mark Haddock
Copy To:	Jeffery Ingram, Grant Morey
Purchase Order No.:	COC #8
Project Name:	Ameren LCPA - Verification Sampling
Project Number:	COC#8

Section C Invoice Information:

Attention:	
Company Name:	Rocksmith
Address:	
Pace Quote Reference:	
Pace Project Manager:	Jamie Church
Pace Profile #:	15856, line 1

REGULATORY AGENCY

☐ NPDES ☑ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: MO

Section D Required Client Information

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
	WP
	AR
	OT
	TS

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED: COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test: TDS	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
	Y/N																	N N N N N N N N N N		60469032
1	L-UMW-1D	WT	G			2-4-25	0903		1	1								X		
2	L-UMW-FB-1	WT	G				0900		1	1								X		
3	L-UMW-DUP-1	WT	G				—		1	1								X		
4	L-UMW-MS-1	WT	G				0903		1	1								X		Collected @L-UMW-1D
5	L-UMW-MSD-1	WT	G				0903											X		
6		WT	G																	
7		WT	G																	
8		WT	G																	
9		WT	G																	
10		WT	G																	
11		WT	G																	
12		WT	G																	

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Rocksmith	2-5-25	1445		2/6	0945	1-7	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: John Rasmussen

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 02/05/25

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

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Client: Rocksmith Geoeng Profile/EZ # 15856 - 1

Site: Notes

COC Line Item	Matrix	VG9H	DG9H	DG9Q	VG9U	DG9U	DG9M	DG9B	BG1U	AG1H	AG1U	AG2U	AG3S	AG4U	AG5U	JGFU	WGKU	WGDU	BP1U	BP2U	BP3U	BP1N	BP2N	BP3F	BP3S	BP3B	BP3Z	WPDU	ZPLC	Other		
1	WT																			3		MS/MSD										
2																				1												
3	↓																			1												
4																																
5																																
6																																
7																																
8																																
9																																
10																																
11																																
12																																

Container Codes

Glass			
DG9B	40mL bisulfate clear vial	WGKU	8oz clear soil jar
DG9H	40mL HCl amber voa vial	WGFU	4oz clear soil jar
DG9M	40mL MeOH clear vial	WG2U	2oz clear soil jar
DG9Q	40mL TSP amber vial	JGFU	4oz unpreserved amber wide
DG9S	40mL H2SO4 amber vial	AG0U	100mL unores amber glass
DG9T	40mL Na Thio amber vial	AG1H	1L HCl amber glass
DG9U	40mL amber unpreserved	AG1S	1L H2SO4 amber glass
VG9H	40mL HCl clear vial	AG1T	1L Na Thiosulfate clear/amber glass
VG9T	40mL Na Thio. clear vial	AG1U	1liter unpres amber glass
VG9U	40mL unpreserved clear vial	AG2N	500mL HNO3 amber glass
BG1S	1liter H2SO4 clear glass	AG2S	500mL H2SO4 amber glass
BG1U	1liter unpres glass	AG3S	250mL H2SO4 amber glass
BG3H	250mL HCL Clear glass	AG2U	500mL unpres amber glass
BG3U	250mL Unpres Clear glass	AG3U	250mL unpres amber glass
WGDU	16oz clear soil jar	AG4U	125mL unpres amber glass
		AG5U	100mL unpres amber glass

Plastic	
BP1B	1L NAOH plastic
BP1N	1L HNO3 plastic
BP1S	1L H2SO4 plastic
BP1U	1L unpreserved plastic
BP1Z	1L NaOH, Zn Acetate
BP2B	500mL NAOH plastic
BP2N	500mL HNO3 plastic
BP2S	500mL H2SO4 plastic
BP2U	500mL unpreserved plastic
BP2Z	500mL NaOH, Zn Acetate
BP3B	250mL NaOH plastic
BP3F	250mL HNO3 plastic - field filtered
BP3N	250mL HNO3 plastic
BP3U	250mL unpreserved plastic
BP3S	250mL H2SO4 plastic
BP3Z	250mL NaOH, Zn Acetate
BP4U	125mL unpreserved plastic
BP4N	125mL HNO3 plastic
BP4S	125mL H2SO4 plastic
WPDU	16oz unpresserved plstic

Misc.	
I	Wipe/Swab
SP5T	120mL Coliform Na Thiosulfate
ZPLC	Ziploc Bag
AF	Air Filter
C	Air Cassettes
R	Terracore Kit
U	Summa Can

Matrix	
WT	Water
SL	Solid
NAL	Non-aqueous Liquid
OL	OIL
WP	Wipe
DW	Drinking Water

Work Order Number: 604649032

Memorandum

March 14, 2025

To:	Project File Rocksmith Geoengineering, LLC	**Project Number:**	23007-24
CC:	Mark Haddock, Jeffrey Ingram		
From:	Grant Morey	**Email:**	grant.morey@rocksmithgeo.com
RE:	**Data Validation Summary, Labadie Energy Center – LCPA Verification – Data Package 60469032**		

The following is a summary of instances where quality control criteria in the functional guidelines were not met and data qualification was required:

- When a compound was analyzed outside of method hold time controls, the sample result was qualified as an estimate (J for detects, UJ for non-detects).

QA LEVEL II - INORGANIC DATA EVALUATION CHECKLIST

Company Name: Rocksmith Geoengineering
Project Manager: J. Ingram
Project Name: Ameren LEC - LCPA Verification
Project Number: 23007-24
Reviewer: G. Morey
Validation Date: 03/14/2025

Laboratory: Pace Analytical Services
SDG #: 60469032
Analytical Method (type and no.): SM2540C (TDS)
Matrix: ☐ Air ☐ Soil/Sed. ■ Water ☐ Waste ☐ _____
Sample Names L-UMW-1D, L-UMW-DUP-1, L-UMW-FB-1

NOTE: Please provide calculation in Comment areas or on the back (if on the back please indicate in comment areas).

Field Information	YES	NO	NA	COMMENTS
a) Sampling dates noted?	x			02/04/2025
b) Sampling team indicated?	x			GTM/JTR
c) Sample location noted?	x			
d) Sample depth indicated (Soils)?			x	
e) Sample type indicated (grab/composite)?	x			Grab
f) Field QC noted?	x			See notes.
g) Field parameters collected (note types)?	x			pH, Sp.Cond, ORP, Temp, DO, Turb
h) Field Calibration within control limits?		x		See notes.
i) Notations of unacceptable field conditions/performances from field logs or field notes?		x		
j) Does the laboratory narrative indicate deficiencies?		x		No lab narrative.

Note Deficiencies: _____

Chain-of-Custody (COC)	YES	NO	NA	COMMENTS
a) Was the COC properly completed?	x			
b) Was the COC signed by both field and laboratory personnel?	x			
c) Were samples received in good condition?	x			

General (reference QAPP or Method)	YES	NO	NA	COMMENTS
a) Were hold times met for sample pretreatment?		x		See Notes
b) Were hold times met for sample analysis?	x			
c) Were the correct preservatives used?	x			
d) Was the correct method used?	x			
e) Were appropriate reporting limits achieved?	x			
f) Were any sample dilutions noted?		x		
g) Were any matrix problems noted?		x		

QA LEVEL II - INORGANIC DATA EVALUATION CHECKLIST

Blanks	YES	NO	NA	COMMENTS
a) Were analytes detected in the method blank(s)?	☐	☒	☐	
b) Were analytes detected in the field blank(s)?	☐	☒	☐	
c) Were analytes detected in the equipment blank(s)?	☐	☐	☒	
d) Were analytes detected in the trip blank(s)?	☐	☐	☒	

Laboratory Control Sample (LCS)	YES	NO	NA	COMMENTS
a) Was a LCS analyzed once per SDG?	☒	☐	☐	
b) Were the proper analytes included in the LCS?	☒	☐	☐	
c) Was the LCS accuracy criteria met?	☒	☐	☐	

Duplicates	YES	NO	NA	COMMENTS
a) Were field duplicates collected (note original and duplicate sample names)?	☒	☐	☐	L-UMW-DUP-1 @ L-UMW-1D
b) Were field dup. precision criteria met (note RPD)?	☒	☐	☐	TDS RPD: 1%
c) Were lab duplicates analyzed (note original and duplicate samples)?	☒	☐	☐	TDS Max RPD: 10%
d) Were lab dup. precision criteria met (note RPD)?	☒	☐	☐	

Blind Standards	YES	NO	NA	COMMENTS
a) Was a blind standard used (indicate name, analytes included and concentrations)?	☐	☐	☒	
b) Was the %D within control limits?	☐	☐	☒	

Matrix Spike/Matrix Spike Duplicate (MS/MSD)	YES	NO	NA	COMMENTS
a) Was MS accuracy criteria met?	☐	☐	☒	MS/MSD not analyzed, TDS only
Recovery could not be calculated since sample contained high concentration of analyte?	☐	☐	☒	
b) Was MSD accuracy criteria met?	☐	☐	☒	
Recovery could not be calculated since sample contained high concentration of analyte?	☐	☐	☒	
c) Were MS/MSD precision criteria met?	☐	☐	☒	

Comments/Notes:

General:

All samples outside of hold time for TDS, results qualified as estimates.

QA LEVEL II- INORGANIC DATA EVALUATION CHECKLIST

Data Qualification:

Sample Name	Constituent(s)	Result	Qualifier	Reason
L-UMW-1D	TDS	654	J	Analyzed outside hold time
L-UMW-FB-1	"	5.0	UJ	"
L-UMW-DUP-1	"	658	J	"

Signature: Grant Morey Date: 03/14/2025

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

October 30, 2025

Mark Haddock
Rocksmith Geoengineering, LLC.
2320 Creve Coeur Mill Road
Maryland Heights, MO 63043

RE: Project: AMEREN LCPA
Pace Project No.: 60473868

Dear Mark Haddock:

Enclosed are the analytical results for sample(s) received by the laboratory between April 26, 2025 and May 02, 2025. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Kansas City
- Pace Analytical Services - Greensburg

(Greensburg, PA) - Revision #1 - This report replaces the May 28th, 2025, report. This project was revised on July 3rd, 2025, to remove an IRWO lab SCUR comment.

REV-1: Report revised to remove comment added by RAD lab regarding sampler's name that was reported in error.

REV-2: Client inquiry on anions for L-UMW-9D and L-UMW-6D. Issue identified with peak integration for L-UMW-9D, data updated. L-UMW-6D dilution error identifed. Both sets of data reported.

REV-3: Report revised to remove parameters not required under the CCR Rule

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jamie Church
jamie.church@pacelabs.com
314-838-7223
Project Manager

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

Enclosures

cc: Jeffrey Ingram, Rocksmith Geoengineering, LLC.
Lisa Meyer, Ameren
Grant Morey, Rocksmith Geoengineering, LLC.
Austin Nieman, Ameren

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

CERTIFICATIONS

Project: AMEREN LCPA
Pace Project No.: 60473868

Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
ANABISO/IEC 17025:2017 Rad Cert#: L24170
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 2950
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA010
Louisiana DEQ/TNI Certification #: 04086
Maine Certification #: 2023021
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991
Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572023-03
New Hampshire/TNI Certification #: 297622
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-015
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: TN02867
Texas/TNI Certification #: T104704188-22-18
Utah/TNI Certification #: PA014572223-14
USDA Soil Permit #: 525-23-67-77263
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad

Pace Analytical Services Kansas

9608 Loiret Boulevard, Lenexa, KS 66219
EPA Lab Code: KS00021
Arkansas Certification #: 88-00679
Colorado Division of Oil and Public Safety
Illinois Certification #: 200030
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Oklahoma Certification #: 9205
Texas Certification #: T104704407
Utah Certification #: KS0002125-15
UDSA_CA : #KS-SC-DOM-25-01

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

SAMPLE SUMMARY

Project: AMEREN LCPA
Pace Project No.: 60473868

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60473868001	**L-UMW-1D**	Water	04/25/25 12:30	04/26/25 06:47
60473868002	**L-UMW-4D**	Water	04/25/25 09:50	04/26/25 06:47
60473868003	**L-UMW-5D**	Water	04/25/25 10:55	04/26/25 06:47
60473868004	**L-UMW-6D**	Water	04/25/25 13:00	04/26/25 06:47
60473868005	**L-BMW-1D**	Water	04/24/25 10:30	04/26/25 06:47
60473868006	**L-BMW-2D**	Water	04/24/25 13:20	04/26/25 06:47
60473868007	**L-UMW-MS-1**	Water	04/25/25 10:55	04/26/25 06:47
60473868008	**L-UMW-MSD-1**	Water	04/25/25 10:55	04/26/25 06:47
60473868009	**L-UMW-3D**	Water	04/29/25 09:15	04/30/25 07:30
60473868010	**L-UMW-7D**	Water	04/29/25 13:50	04/30/25 07:30
60473868011	**L-UMW-9D**	Water	04/29/25 10:49	04/30/25 07:30
60473868012	**L-UMW-DUP-1**	Water	04/29/25 13:50	04/30/25 07:30
60473868013	**L-UMW-FB-1**	Water	04/29/25 09:30	04/30/25 07:30
60473868014	**L-UMW-FB-2**	Water	04/29/25 11:20	04/30/25 07:30
60473868016	**L-UMW-2D**	Water	04/30/25 09:00	05/02/25 07:00
60473868017	**L-UMW-8D**	Water	04/29/25 15:35	05/02/25 07:00
60473868018	**L-UMW-DUP-2**	Water	04/30/25 00:00	05/02/25 07:00

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

SAMPLE ANALYTE COUNT

Project: AMEREN LCPA
Pace Project No.: 60473868

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60473868001	**L-UMW-1D**	EPA 200.7	ARMN	13	PASI-K
		EPA 200.8	JGP	6	PASI-K
		EPA 7470	MNG	1	PASI-K
		EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		SM 2320B	EFM	1	PASI-K
		SM 2540C	CAR	1	PASI-K
		SM 3500-Fe B#4	DLJ	1	PASI-K
		SM 3500-Fe B#4	DLJ	1	PASI-K
		SM 4500-S-2 D	DLJ	1	PASI-K
		EPA 300.0	AAA	3	PASI-K
60473868002	**L-UMW-4D**	EPA 200.7	ARMN	13	PASI-K
		EPA 200.8	JGP	6	PASI-K
		EPA 7470	MNG	1	PASI-K
		EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		SM 2320B	EFM	1	PASI-K
		SM 2540C	CAR	1	PASI-K
		SM 3500-Fe B#4	DLJ	1	PASI-K
		SM 3500-Fe B#4	DLJ	1	PASI-K
		SM 4500-S-2 D	DLJ	1	PASI-K
		EPA 300.0	AAA	3	PASI-K
60473868003	**L-UMW-5D**	EPA 200.7	ARMN	13	PASI-K
		EPA 200.8	JGP	6	PASI-K
		EPA 7470	MNG	1	PASI-K
		EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		SM 2320B	EFM	1	PASI-K
		SM 2540C	CAR	1	PASI-K
		SM 3500-Fe B#4	DLJ	1	PASI-K
		SM 3500-Fe B#4	DLJ	1	PASI-K
		SM 4500-S-2 D	DLJ	1	PASI-K
		EPA 300.0	AAA	3	PASI-K
60473868004	**L-UMW-6D**	EPA 200.7	ARMN	13	PASI-K
		EPA 200.8	JGP	6	PASI-K
		EPA 7470	MNG	1	PASI-K
		EPA 903.1	LL1	1	PASI-PA

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

SAMPLE ANALYTE COUNT

Project: AMEREN LCPA
Pace Project No.: 60473868

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 904.0	ZPC	1	PASI-PA
		SM 2320B	EFM	1	PASI-K
		SM 2540C	CAR	1	PASI-K
		SM 3500-Fe B#4	DLJ	1	PASI-K
		SM 3500-Fe B#4	DLJ	1	PASI-K
		SM 4500-S-2 D	DLJ	1	PASI-K
		EPA 300.0	AAA	3	PASI-K
60473868005	**L-BMW-1D**	EPA 200.7	ARMN	13	PASI-K
		EPA 200.8	JGP	6	PASI-K
		EPA 7470	MNG	1	PASI-K
		EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		SM 2320B	EFM	1	PASI-K
		SM 2540C	CAR	1	PASI-K
		SM 3500-Fe B#4	DLJ	1	PASI-K
		SM 3500-Fe B#4	DLJ	1	PASI-K
		SM 4500-S-2 D	DLJ	1	PASI-K
		EPA 300.0	AAA	3	PASI-K
60473868006	**L-BMW-2D**	EPA 200.7	ARMN	13	PASI-K
		EPA 200.8	JGP	6	PASI-K
		EPA 7470	MNG	1	PASI-K
		EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		SM 2320B	EFM	1	PASI-K
		SM 2540C	CAR	1	PASI-K
		SM 3500-Fe B#4	DLJ	1	PASI-K
		SM 3500-Fe B#4	DLJ	1	PASI-K
		SM 4500-S-2 D	DLJ	1	PASI-K
		EPA 300.0	AAA	3	PASI-K
60473868007	**L-UMW-MS-1**	EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
60473868008	**L-UMW-MSD-1**	EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
60473868009	**L-UMW-3D**	EPA 200.7	ARMN	13	PASI-K
		EPA 200.8	MLD	6	PASI-K
		EPA 7470	MNG	1	PASI-K
		EPA 903.1	LL1	1	PASI-PA

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

SAMPLE ANALYTE COUNT

Project: AMEREN LCPA
Pace Project No.: 60473868

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 904.0	ZPC	1	PASI-PA
		SM 2320B	EFM	1	PASI-K
		SM 2540C	CAR	1	PASI-K
		SM 3500-Fe B#4	DLJ	1	PASI-K
		SM 3500-Fe B#4	DLJ	1	PASI-K
		SM 4500-S-2 D	DLJ	1	PASI-K
		EPA 300.0	AAA	3	PASI-K
60473868010	**L-UMW-7D**	EPA 200.7	ARMN	13	PASI-K
		EPA 200.8	MLD	6	PASI-K
		EPA 7470	MNG	1	PASI-K
		EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		SM 2320B	EFM	1	PASI-K
		SM 2540C	CAR	1	PASI-K
		SM 3500-Fe B#4	DLJ	1	PASI-K
		SM 3500-Fe B#4	DLJ	1	PASI-K
		SM 4500-S-2 D	DLJ	1	PASI-K
		EPA 300.0	MLD	3	PASI-K
60473868011	**L-UMW-9D**	EPA 200.7	ARMN	13	PASI-K
		EPA 200.8	MLD	6	PASI-K
		EPA 7470	MNG	1	PASI-K
		EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		SM 2320B	EFM	1	PASI-K
		SM 2540C	CAR	1	PASI-K
		SM 3500-Fe B#4	DLJ	1	PASI-K
		SM 3500-Fe B#4	DLJ	1	PASI-K
		SM 4500-S-2 D	DLJ	1	PASI-K
		EPA 300.0	MLD	3	PASI-K
60473868012	**L-UMW-DUP-1**	EPA 200.7	ARMN	13	PASI-K
		EPA 200.8	MLD	6	PASI-K
		EPA 7470	MNG	1	PASI-K
		EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		SM 2320B	EFM	1	PASI-K
		SM 2540C	CAR	1	PASI-K
		SM 3500-Fe B#4	DLJ	1	PASI-K

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

SAMPLE ANALYTE COUNT

Project: AMEREN LCPA
Pace Project No.: 60473868

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 3500-Fe B#4	DLJ	1	PASI-K
		SM 4500-S-2 D	DLJ	1	PASI-K
		EPA 300.0	MLD	3	PASI-K
60473868013	**L-UMW-FB-1**	EPA 200.7	ARMN	13	PASI-K
		EPA 200.8	MLD	6	PASI-K
		EPA 7470	MNG	1	PASI-K
		EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		SM 2320B	EFM	1	PASI-K
		SM 2540C	CAR	1	PASI-K
		SM 3500-Fe B#4	DLJ	1	PASI-K
		SM 3500-Fe B#4	DLJ	1	PASI-K
		SM 4500-S-2 D	DLJ	1	PASI-K
		EPA 300.0	MLD	3	PASI-K
60473868014	**L-UMW-FB-2**	EPA 200.7	ARMN	13	PASI-K
		EPA 200.8	MLD	6	PASI-K
		EPA 7470	MNG	1	PASI-K
		EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		SM 2320B	EFM	1	PASI-K
		SM 2540C	CAR	1	PASI-K
		SM 3500-Fe B#4	DLJ	1	PASI-K
		SM 3500-Fe B#4	DLJ	1	PASI-K
		SM 4500-S-2 D	DLJ	1	PASI-K
		EPA 300.0	MLD	3	PASI-K
60473868016	**L-UMW-2D**	EPA 200.7	ARMN	13	PASI-K
		EPA 200.8	MLD	6	PASI-K
		EPA 7470	MNG	1	PASI-K
		EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		SM 2320B	EFM	1	PASI-K
		SM 2540C	CAR	1	PASI-K
		SM 3500-Fe B#4	DLJ	1	PASI-K
		SM 3500-Fe B#4	DLJ	1	PASI-K
		SM 4500-S-2 D	DLJ	1	PASI-K
		EPA 300.0	MLD	3	PASI-K
60473868017	**L-UMW-8D**	EPA 200.7	ARMN	13	PASI-K

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

SAMPLE ANALYTE COUNT

Project: AMEREN LCPA
Pace Project No.: 60473868

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 200.8	MLD	6	PASI-K
		EPA 7470	MNG	1	PASI-K
		EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		SM 2320B	EFM	1	PASI-K
		SM 2540C	CAR	1	PASI-K
		SM 3500-Fe B#4	DLJ	1	PASI-K
		SM 3500-Fe B#4	DLJ	1	PASI-K
		SM 4500-S-2 D	DLJ	1	PASI-K
		EPA 300.0	MLD	3	PASI-K
60473868018	**L-UMW-DUP-2**	EPA 200.7	ARMN	13	PASI-K
		EPA 200.8	MLD	6	PASI-K
		EPA 7470	MNG	1	PASI-K
		EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		SM 2320B	EFM	1	PASI-K
		SM 2540C	CAR	1	PASI-K
		SM 3500-Fe B#4	DLJ	1	PASI-K
		SM 3500-Fe B#4	DLJ	1	PASI-K
		SM 4500-S-2 D	DLJ	1	PASI-K
		EPA 300.0	MLD	3	PASI-K

PASI-K = Pace Analytical Services - Kansas City
PASI-PA = Pace Analytical Services - Greensburg

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA
Pace Project No.: 60473868

Sample: L-UMW-1D **Lab ID: 60473868001** Collected: 04/25/25 12:30 Received: 04/26/25 06:47 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City								
Barium	**518**	ug/L	5.0	0.64	1	04/30/25 07:50	05/23/25 12:54	7440-39-3	
Beryllium	**<0.12**	ug/L	1.0	0.12	1	04/30/25 07:50	05/23/25 12:54	7440-41-7	
Boron	**353**	ug/L	100	6.4	1	04/30/25 07:50	05/23/25 12:54	7440-42-8	
Calcium	**150000**	ug/L	200	26.9	1	04/30/25 07:50	05/23/25 12:54	7440-70-2	
Cobalt	**<1.2**	ug/L	5.0	1.2	1	04/30/25 07:50	05/23/25 12:54	7440-48-4	
Iron	**18500**	ug/L	50.0	9.1	1	04/30/25 07:50	05/23/25 12:54	7439-89-6	
Lead	**<3.8**	ug/L	10.0	3.8	1	04/30/25 07:50	05/23/25 12:54	7439-92-1	
Lithium	**27.5**	ug/L	10.0	3.7	1	04/30/25 07:50	05/23/25 12:54	7439-93-2	
Magnesium	**37300**	ug/L	50.0	20.1	1	04/30/25 07:50	05/23/25 12:54	7439-95-4	
Manganese	**424**	ug/L	5.0	0.39	1	04/30/25 07:50	05/23/25 12:54	7439-96-5	
Molybdenum	**3.3J**	ug/L	20.0	1.0	1	04/30/25 07:50	05/23/25 12:54	7439-98-7	
Potassium	**6230**	ug/L	500	69.7	1	04/30/25 07:50	05/23/25 12:54	7440-09-7	
Sodium	**16500**	ug/L	500	115	1	04/30/25 07:50	05/23/25 12:54	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Antimony	**<0.12**	ug/L	1.0	0.12	1	04/30/25 07:50	05/16/25 13:20	7440-36-0	
Arsenic	**48.6**	ug/L	1.0	0.13	1	04/30/25 07:50	05/16/25 13:20	7440-38-2	
Cadmium	**<0.050**	ug/L	0.50	0.050	1	04/30/25 07:50	05/16/25 13:20	7440-43-9	
Chromium	**0.31J**	ug/L	1.0	0.30	1	04/30/25 07:50	05/16/25 13:20	7440-47-3	
Selenium	**<0.18**	ug/L	1.0	0.18	1	04/30/25 07:50	05/16/25 13:20	7782-49-2	
Thallium	**<0.14**	ug/L	1.0	0.14	1	04/30/25 07:50	05/16/25 13:20	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Kansas City								
Mercury	**<0.096**	ug/L	0.20	0.096	1	05/12/25 14:24	05/13/25 10:33	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Kansas City								
Alkalinity, Total as CaCO3	**549**	mg/L	20.0	10.5	1		05/09/25 12:19		
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City								
Total Dissolved Solids	**633**	mg/L	13.3	13.3	1		05/01/25 13:36		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City								
Iron, Ferric	**<0.041**	mg/L	0.050	0.041	1		05/28/25 09:15	20074-52-6	
Iron, Ferrous	Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City								
Iron, Ferrous	**28.8**	mg/L	2.5	0.51	1		05/03/25 11:00	15438-31-0	H6

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA
Pace Project No.: 60473868

Sample: L-UMW-1D **Lab ID: 60473868001** Collected: 04/25/25 12:30 Received: 04/26/25 06:47 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D Pace Analytical Services - Kansas City								
Sulfide, Total	**0.016J**	mg/L	0.050	0.016	1		04/30/25 13:50	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City								
Chloride	**7.1**	mg/L	1.0	0.53	1		05/15/25 12:04	16887-00-6	
Fluoride	**<0.12**	mg/L	0.20	0.12	1		05/15/25 12:04	16984-48-8	
Sulfate	**26.1**	mg/L	5.0	2.8	5		05/17/25 00:26	14808-79-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA
Pace Project No.: 60473868

Sample: L-UMW-4D **Lab ID: 60473868002** Collected: 04/25/25 09:50 Received: 04/26/25 06:47 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City								
Barium	**66.5**	ug/L	5.0	0.64	1	04/30/25 07:50	05/23/25 12:56	7440-39-3	
Beryllium	**<0.12**	ug/L	1.0	0.12	1	04/30/25 07:50	05/23/25 12:56	7440-41-7	
Boron	**6190**	ug/L	100	6.4	1	04/30/25 07:50	05/23/25 12:56	7440-42-8	
Calcium	**58000**	ug/L	200	26.9	1	04/30/25 07:50	05/23/25 12:56	7440-70-2	
Cobalt	**<1.2**	ug/L	5.0	1.2	1	04/30/25 07:50	05/23/25 12:56	7440-48-4	
Iron	**201**	ug/L	50.0	9.1	1	04/30/25 07:50	05/23/25 12:56	7439-89-6	
Lead	**<3.8**	ug/L	10.0	3.8	1	04/30/25 07:50	05/23/25 12:56	7439-92-1	
Lithium	**24.9**	ug/L	10.0	3.7	1	04/30/25 07:50	05/23/25 12:56	7439-93-2	
Magnesium	**6320**	ug/L	50.0	20.1	1	04/30/25 07:50	05/23/25 12:56	7439-95-4	
Manganese	**237**	ug/L	5.0	0.39	1	04/30/25 07:50	05/23/25 12:56	7439-96-5	
Molybdenum	**369**	ug/L	20.0	1.0	1	04/30/25 07:50	05/23/25 12:56	7439-98-7	
Potassium	**7570**	ug/L	500	69.7	1	04/30/25 07:50	05/23/25 12:56	7440-09-7	
Sodium	**87800**	ug/L	500	115	1	04/30/25 07:50	05/23/25 12:56	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Antimony	**<0.12**	ug/L	1.0	0.12	1	04/30/25 07:50	05/16/25 13:22	7440-36-0	
Arsenic	**<0.13**	ug/L	1.0	0.13	1	04/30/25 07:50	05/16/25 13:22	7440-38-2	
Cadmium	**0.13J**	ug/L	0.50	0.050	1	04/30/25 07:50	05/16/25 13:22	7440-43-9	
Chromium	**0.32J**	ug/L	1.0	0.30	1	04/30/25 07:50	05/16/25 13:22	7440-47-3	
Selenium	**<0.18**	ug/L	1.0	0.18	1	04/30/25 07:50	05/16/25 13:22	7782-49-2	
Thallium	**<0.14**	ug/L	1.0	0.14	1	04/30/25 07:50	05/16/25 13:22	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Kansas City								
Mercury	**<0.096**	ug/L	0.20	0.096	1	05/12/25 14:24	05/13/25 10:35	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Kansas City								
Alkalinity, Total as CaCO3	**69.6**	mg/L	20.0	10.5	1		05/09/25 12:25		
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City								
Total Dissolved Solids	**580**	mg/L	10.0	10.0	1		05/01/25 13:36		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City								
Iron, Ferric	**<0.041**	mg/L	0.050	0.041	1		05/28/25 09:15	20074-52-6	
Iron, Ferrous	Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City								
Iron, Ferrous	**0.35**	mg/L	0.20	0.041	1		04/29/25 14:30	15438-31-0	H6

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA
Pace Project No.: 60473868

Sample: L-UMW-4D **Lab ID: 60473868002** Collected: 04/25/25 09:50 Received: 04/26/25 06:47 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D Pace Analytical Services - Kansas City								
Sulfide, Total	**0.016J**	mg/L	0.050	0.016	1		04/30/25 13:50	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City								
Chloride	**23.3**	mg/L	10.0	5.3	10		05/15/25 12:32	16887-00-6	
Fluoride	**0.25**	mg/L	0.20	0.12	1		05/15/25 12:18	16984-48-8	
Sulfate	**286**	mg/L	50.0	27.5	50		05/15/25 12:46	14808-79-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA
Pace Project No.: 60473868

Sample: L-UMW-5D **Lab ID: 60473868003** Collected: 04/25/25 10:55 Received: 04/26/25 06:47 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City								
Barium	**112**	ug/L	5.0	0.64	1	04/30/25 07:50	05/23/25 12:58	7440-39-3	
Beryllium	**<0.12**	ug/L	1.0	0.12	1	04/30/25 07:50	05/23/25 12:58	7440-41-7	
Boron	**11800**	ug/L	100	6.4	1	04/30/25 07:50	05/23/25 12:58	7440-42-8	
Calcium	**104000**	ug/L	200	26.9	1	04/30/25 07:50	05/23/25 12:58	7440-70-2	
Cobalt	**<1.2**	ug/L	5.0	1.2	1	04/30/25 07:50	05/23/25 12:58	7440-48-4	
Iron	**17.2J**	ug/L	50.0	9.1	1	04/30/25 07:50	05/23/25 12:58	7439-89-6	
Lead	**<3.8**	ug/L	10.0	3.8	1	04/30/25 07:50	05/23/25 12:58	7439-92-1	
Lithium	**26.0**	ug/L	10.0	3.7	1	04/30/25 07:50	05/23/25 12:58	7439-93-2	
Magnesium	**36.2J**	ug/L	50.0	20.1	1	04/30/25 07:50	05/23/25 12:58	7439-95-4	
Manganese	**12.2**	ug/L	5.0	0.39	1	04/30/25 07:50	05/23/25 12:58	7439-96-5	
Molybdenum	**554**	ug/L	20.0	1.0	1	04/30/25 07:50	05/23/25 12:58	7439-98-7	
Potassium	**17200**	ug/L	500	69.7	1	04/30/25 07:50	05/23/25 12:58	7440-09-7	
Sodium	**96600**	ug/L	500	115	1	04/30/25 07:50	05/23/25 12:58	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Antimony	**<0.12**	ug/L	1.0	0.12	1	04/30/25 07:50	05/16/25 13:09	7440-36-0	
Arsenic	**15.6**	ug/L	1.0	0.13	1	04/30/25 07:50	05/16/25 13:09	7440-38-2	
Cadmium	**0.21J**	ug/L	0.50	0.050	1	04/30/25 07:50	05/16/25 13:09	7440-43-9	
Chromium	**0.36J**	ug/L	1.0	0.30	1	04/30/25 07:50	05/16/25 13:09	7440-47-3	
Selenium	**<0.18**	ug/L	1.0	0.18	1	04/30/25 07:50	05/16/25 13:09	7782-49-2	
Thallium	**<0.14**	ug/L	1.0	0.14	1	04/30/25 07:50	05/16/25 13:09	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Kansas City								
Mercury	**<0.096**	ug/L	0.20	0.096	1	05/12/25 14:24	05/13/25 10:37	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Kansas City								
Alkalinity, Total as CaCO3	**90.1**	mg/L	20.0	10.5	1		05/09/25 12:31		
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City								
Total Dissolved Solids	**795**	mg/L	13.3	13.3	1		05/01/25 13:36		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City								
Iron, Ferric	**<0.041**	mg/L	0.050	0.041	1		05/28/25 09:15	20074-52-6	
Iron, Ferrous	Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City								
Iron, Ferrous	**0.10J**	mg/L	0.20	0.041	1		04/29/25 14:30	15438-31-0	H6

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA
Pace Project No.: 60473868

Sample: L-UMW-5D **Lab ID: 60473868003** Collected: 04/25/25 10:55 Received: 04/26/25 06:47 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D Pace Analytical Services - Kansas City								
Sulfide, Total	**0.52**	mg/L	0.050	0.016	1		04/30/25 13:50	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City								
Chloride	**27.6**	mg/L	20.0	10.5	20		05/15/25 09:04	16887-00-6	
Fluoride	**<0.12**	mg/L	0.20	0.12	1		05/15/25 08:51	16984-48-8	
Sulfate	**407**	mg/L	50.0	27.5	50		05/16/25 23:38	14808-79-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA
Pace Project No.: 60473868

Sample: L-UMW-6D **Lab ID: 60473868004** Collected: 04/25/25 13:00 Received: 04/26/25 06:47 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City								
Barium	**75.2**	ug/L	5.0	0.64	1	04/30/25 07:50	05/23/25 13:04	7440-39-3	
Beryllium	**<0.12**	ug/L	1.0	0.12	1	04/30/25 07:50	05/23/25 13:04	7440-41-7	
Boron	**8800**	ug/L	100	6.4	1	04/30/25 07:50	05/23/25 13:04	7440-42-8	
Calcium	**126000**	ug/L	200	26.9	1	04/30/25 07:50	05/23/25 13:04	7440-70-2	
Cobalt	**<1.2**	ug/L	5.0	1.2	1	04/30/25 07:50	05/23/25 13:04	7440-48-4	
Iron	**864**	ug/L	50.0	9.1	1	04/30/25 07:50	05/23/25 13:04	7439-89-6	
Lead	**<3.8**	ug/L	10.0	3.8	1	04/30/25 07:50	05/23/25 13:04	7439-92-1	
Lithium	**9.6J**	ug/L	10.0	3.7	1	04/30/25 07:50	05/23/25 13:04	7439-93-2	
Magnesium	**3670**	ug/L	50.0	20.1	1	04/30/25 07:50	05/23/25 13:04	7439-95-4	
Manganese	**535**	ug/L	5.0	0.39	1	04/30/25 07:50	05/23/25 13:04	7439-96-5	
Molybdenum	**493**	ug/L	20.0	1.0	1	04/30/25 07:50	05/23/25 13:04	7439-98-7	
Potassium	**13000**	ug/L	500	69.7	1	04/30/25 07:50	05/23/25 13:04	7440-09-7	
Sodium	**173000**	ug/L	500	115	1	04/30/25 07:50	05/23/25 13:04	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Antimony	**<0.12**	ug/L	1.0	0.12	1	04/30/25 07:50	05/16/25 13:25	7440-36-0	
Arsenic	**10.1**	ug/L	1.0	0.13	1	04/30/25 07:50	05/16/25 13:25	7440-38-2	
Cadmium	**0.17J**	ug/L	0.50	0.050	1	04/30/25 07:50	05/16/25 13:25	7440-43-9	
Chromium	**0.33J**	ug/L	1.0	0.30	1	04/30/25 07:50	05/16/25 13:25	7440-47-3	
Selenium	**<0.18**	ug/L	1.0	0.18	1	04/30/25 07:50	05/16/25 13:25	7782-49-2	
Thallium	**<0.14**	ug/L	1.0	0.14	1	04/30/25 07:50	05/16/25 13:25	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Kansas City								
Mercury	**<0.096**	ug/L	0.20	0.096	1	05/12/25 14:24	05/13/25 10:44	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Kansas City								
Alkalinity, Total as CaCO3	**66.7**	mg/L	20.0	10.5	1		05/09/25 12:42		
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City								
Total Dissolved Solids	**1130**	mg/L	20.0	20.0	1		05/01/25 13:36		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City								
Iron, Ferric	**<0.041**	mg/L	0.050	0.041	1		05/28/25 09:15	20074-52-6	
Iron, Ferrous	Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City								
Iron, Ferrous	**1.3**	mg/L	0.20	0.041	1		04/29/25 14:30	15438-31-0	H6

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA
Pace Project No.: 60473868

Sample: L-UMW-6D **Lab ID: 60473868004** Collected: 04/25/25 13:00 Received: 04/26/25 06:47 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D Pace Analytical Services - Kansas City								
Sulfide, Total	**0.053**	mg/L	0.050	0.016	1		04/30/25 13:50	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City								
Chloride	**0.84J**	mg/L	1.0	0.77	1		05/15/25 12:59	16887-00-6	
Chloride	**<76.5**	mg/L	100	76.5	100		05/15/25 13:11	16887-00-6	
Fluoride	**<0.16**	mg/L	0.20	0.16	1		05/15/25 12:59	16984-48-8	
Fluoride	**<15.6**	mg/L	20.0	15.6	100		05/15/25 13:11	16984-48-8	
Sulfate	**4.0**	mg/L	1.0	0.43	1		05/15/25 12:59	14808-79-8	
Sulfate	**668**	mg/L	100	43.1	100		05/15/25 13:11	14808-79-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA
Pace Project No.: 60473868

Sample: L-BMW-1D **Lab ID: 60473868005** Collected: 04/24/25 10:30 Received: 04/26/25 06:47 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City								
Barium	**863**	ug/L	5.0	0.64	1	04/30/25 07:50	05/23/25 13:05	7440-39-3	
Beryllium	**<0.12**	ug/L	1.0	0.12	1	04/30/25 07:50	05/23/25 13:05	7440-41-7	
Boron	**90.3J**	ug/L	100	6.4	1	04/30/25 07:50	05/23/25 13:05	7440-42-8	
Calcium	**118000**	ug/L	200	26.9	1	04/30/25 07:50	05/23/25 13:05	7440-70-2	
Cobalt	**<1.2**	ug/L	5.0	1.2	1	04/30/25 07:50	05/23/25 13:05	7440-48-4	
Iron	**9870**	ug/L	50.0	9.1	1	04/30/25 07:50	05/23/25 13:05	7439-89-6	
Lead	**<3.8**	ug/L	10.0	3.8	1	04/30/25 07:50	05/23/25 13:05	7439-92-1	
Lithium	**28.2**	ug/L	10.0	3.7	1	04/30/25 07:50	05/23/25 13:05	7439-93-2	
Magnesium	**25700**	ug/L	50.0	20.1	1	04/30/25 07:50	05/23/25 13:05	7439-95-4	
Manganese	**640**	ug/L	5.0	0.39	1	04/30/25 07:50	05/23/25 13:05	7439-96-5	
Molybdenum	**2.4J**	ug/L	20.0	1.0	1	04/30/25 07:50	05/23/25 13:05	7439-98-7	
Potassium	**4160**	ug/L	500	69.7	1	04/30/25 07:50	05/23/25 13:05	7440-09-7	
Sodium	**7230**	ug/L	500	115	1	04/30/25 07:50	05/23/25 13:05	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Antimony	**<0.12**	ug/L	1.0	0.12	1	04/30/25 07:50	05/16/25 13:31	7440-36-0	
Arsenic	**1.2**	ug/L	1.0	0.13	1	04/30/25 07:50	05/16/25 13:31	7440-38-2	
Cadmium	**<0.050**	ug/L	0.50	0.050	1	04/30/25 07:50	05/16/25 13:31	7440-43-9	
Chromium	**0.38J**	ug/L	1.0	0.30	1	04/30/25 07:50	05/16/25 13:31	7440-47-3	
Selenium	**<0.18**	ug/L	1.0	0.18	1	04/30/25 07:50	05/16/25 13:31	7782-49-2	
Thallium	**<0.14**	ug/L	1.0	0.14	1	04/30/25 07:50	05/16/25 13:31	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Kansas City								
Mercury	**<0.096**	ug/L	0.20	0.096	1	05/12/25 14:24	05/13/25 10:46	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Kansas City								
Alkalinity, Total as CaCO3	**393**	mg/L	20.0	10.5	1		05/08/25 13:58		
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City								
Total Dissolved Solids	**478**	mg/L	10.0	10.0	1		05/01/25 13:34		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City								
Iron, Ferric	**<0.041**	mg/L	0.050	0.041	1		05/28/25 09:15	20074-52-6	
Iron, Ferrous	Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City								
Iron, Ferrous	**13.7**	mg/L	0.50	0.10	1		04/29/25 14:30	15438-31-0	H6

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA
Pace Project No.: 60473868

Sample: L-BMW-1D **Lab ID: 60473868005** Collected: 04/24/25 10:30 Received: 04/26/25 06:47 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D Pace Analytical Services - Kansas City								
Sulfide, Total	**<0.016**	mg/L	0.050	0.016	1		04/30/25 13:50	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City								
Chloride	**7.0**	mg/L	1.0	0.53	1		05/15/25 13:52	16887-00-6	
Fluoride	**<0.12**	mg/L	0.20	0.12	1		05/15/25 13:52	16984-48-8	
Sulfate	**18.0**	mg/L	1.0	0.55	1		05/15/25 13:52	14808-79-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA
Pace Project No.: 60473868

Sample: L-BMW-2D **Lab ID: 60473868006** Collected: 04/24/25 13:20 Received: 04/26/25 06:47 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City								
Barium	**301**	ug/L	5.0	0.64	1	04/30/25 07:50	05/23/25 13:13	7440-39-3	
Beryllium	**<0.12**	ug/L	1.0	0.12	1	04/30/25 07:50	05/23/25 13:13	7440-41-7	
Boron	**66.6J**	ug/L	100	6.4	1	04/30/25 07:50	05/23/25 13:13	7440-42-8	
Calcium	**115000**	ug/L	200	26.9	1	04/30/25 07:50	05/23/25 13:13	7440-70-2	
Cobalt	**<1.2**	ug/L	5.0	1.2	1	04/30/25 07:50	05/23/25 13:13	7440-48-4	
Iron	**6080**	ug/L	50.0	9.1	1	04/30/25 07:50	05/23/25 13:13	7439-89-6	
Lead	**<3.8**	ug/L	10.0	3.8	1	04/30/25 07:50	05/23/25 13:13	7439-92-1	
Lithium	**40.4**	ug/L	10.0	3.7	1	04/30/25 07:50	05/23/25 13:13	7439-93-2	
Magnesium	**25800**	ug/L	50.0	20.1	1	04/30/25 07:50	05/23/25 13:13	7439-95-4	
Manganese	**244**	ug/L	5.0	0.39	1	04/30/25 07:50	05/23/25 13:13	7439-96-5	
Molybdenum	**1.4J**	ug/L	20.0	1.0	1	04/30/25 07:50	05/23/25 13:13	7439-98-7	
Potassium	**4380**	ug/L	500	69.7	1	04/30/25 07:50	05/23/25 13:13	7440-09-7	
Sodium	**4890**	ug/L	500	115	1	04/30/25 07:50	05/23/25 13:13	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Antimony	**<0.12**	ug/L	1.0	0.12	1	04/30/25 07:50	05/16/25 13:33	7440-36-0	
Arsenic	**26.1**	ug/L	1.0	0.13	1	04/30/25 07:50	05/16/25 13:33	7440-38-2	
Cadmium	**<0.050**	ug/L	0.50	0.050	1	04/30/25 07:50	05/16/25 13:33	7440-43-9	
Chromium	**0.38J**	ug/L	1.0	0.30	1	04/30/25 07:50	05/16/25 13:33	7440-47-3	
Selenium	**<0.18**	ug/L	1.0	0.18	1	04/30/25 07:50	05/16/25 13:33	7782-49-2	
Thallium	**<0.14**	ug/L	1.0	0.14	1	04/30/25 07:50	05/16/25 13:33	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Kansas City								
Mercury	**<0.096**	ug/L	0.20	0.096	1	05/12/25 14:24	05/13/25 10:49	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Kansas City								
Alkalinity, Total as CaCO3	**378**	mg/L	20.0	10.5	1		05/08/25 14:04		
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City								
Total Dissolved Solids	**450**	mg/L	10.0	10.0	1		05/01/25 13:34		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City								
Iron, Ferric	**<0.041**	mg/L	0.050	0.041	1		05/28/25 09:15	20074-52-6	
Iron, Ferrous	Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City								
Iron, Ferrous	**8.5**	mg/L	0.40	0.082	1		04/29/25 14:30	15438-31-0	H6

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA
Pace Project No.: 60473868

Sample: L-BMW-2D **Lab ID: 60473868006** Collected: 04/24/25 13:20 Received: 04/26/25 06:47 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D Pace Analytical Services - Kansas City								
Sulfide, Total	**<0.016**	mg/L	0.050	0.016	1		04/30/25 13:50	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City								
Chloride	**1.9**	mg/L	1.0	0.53	1		05/15/25 14:20	16887-00-6	
Fluoride	**<0.12**	mg/L	0.20	0.12	1		05/15/25 14:20	16984-48-8	
Sulfate	**29.5**	mg/L	10.0	5.5	10		05/15/25 14:34	14808-79-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA
Pace Project No.: 60473868

Sample: L-UMW-3D **Lab ID: 60473868009** Collected: 04/29/25 09:15 Received: 04/30/25 07:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City								
Barium	**52.2**	ug/L	5.0	0.64	1	05/01/25 13:06	05/23/25 11:30	7440-39-3	
Beryllium	**<0.12**	ug/L	1.0	0.12	1	05/01/25 13:06	05/23/25 11:30	7440-41-7	
Boron	**11600**	ug/L	100	6.4	1	05/01/25 13:06	05/23/25 11:30	7440-42-8	
Calcium	**64500**	ug/L	200	26.9	1	05/01/25 13:06	05/23/25 11:30	7440-70-2	
Cobalt	**<1.2**	ug/L	5.0	1.2	1	05/01/25 13:06	05/23/25 11:30	7440-48-4	
Iron	**113**	ug/L	50.0	9.1	1	05/01/25 13:06	05/23/25 11:30	7439-89-6	
Lead	**<3.8**	ug/L	10.0	3.8	1	05/01/25 13:06	05/23/25 11:30	7439-92-1	
Lithium	**16.6**	ug/L	10.0	3.7	1	05/01/25 13:06	05/23/25 11:30	7439-93-2	
Magnesium	**4220**	ug/L	50.0	20.1	1	05/01/25 13:06	05/23/25 11:30	7439-95-4	
Manganese	**96.8**	ug/L	5.0	0.39	1	05/01/25 13:06	05/23/25 11:30	7439-96-5	
Molybdenum	**384**	ug/L	20.0	1.0	1	05/01/25 13:06	05/23/25 11:30	7439-98-7	
Potassium	**8350**	ug/L	500	69.7	1	05/01/25 13:06	05/23/25 11:30	7440-09-7	
Sodium	**63200**	ug/L	500	115	1	05/01/25 13:06	05/23/25 11:30	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Antimony	**<0.12**	ug/L	1.0	0.12	1	05/01/25 12:55	05/16/25 14:56	7440-36-0	
Arsenic	**7.4**	ug/L	1.0	0.13	1	05/01/25 12:55	05/16/25 14:56	7440-38-2	
Cadmium	**0.13J**	ug/L	0.50	0.050	1	05/01/25 12:55	05/16/25 14:56	7440-43-9	
Chromium	**0.41J**	ug/L	1.0	0.30	1	05/01/25 12:55	05/16/25 14:56	7440-47-3	
Selenium	**0.26J**	ug/L	1.0	0.18	1	05/01/25 12:55	05/16/25 14:56	7782-49-2	
Thallium	**<0.14**	ug/L	1.0	0.14	1	05/01/25 12:55	05/16/25 14:56	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Kansas City								
Mercury	**<0.096**	ug/L	0.20	0.096	1	05/12/25 15:00	05/13/25 12:57	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Kansas City								
Alkalinity, Total as CaCO3	**47.6**	mg/L	20.0	10.5	1		05/13/25 21:16		
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City								
Total Dissolved Solids	**500**	mg/L	10.0	10.0	1		05/06/25 13:14		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City								
Iron, Ferric	**<0.041**	mg/L	0.050	0.041	1		05/28/25 09:15	20074-52-6	
Iron, Ferrous	Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City								
Iron, Ferrous	**0.25**	mg/L	0.20	0.041	1		05/03/25 11:00	15438-31-0	H6

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA
Pace Project No.: 60473868

Sample: L-UMW-3D **Lab ID: 60473868009** Collected: 04/29/25 09:15 Received: 04/30/25 07:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D Pace Analytical Services - Kansas City								
Sulfide, Total	**0.17**	mg/L	0.050	0.016	1		05/02/25 14:32	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City								
Chloride	**31.3**	mg/L	20.0	10.5	20		05/22/25 22:17	16887-00-6	B
Fluoride	**<0.12**	mg/L	0.20	0.12	1		05/22/25 22:03	16984-48-8	
Sulfate	**257**	mg/L	20.0	11.0	20		05/22/25 22:17	14808-79-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA
Pace Project No.: 60473868

Sample: L-UMW-7D **Lab ID: 60473868010** Collected: 04/29/25 13:50 Received: 04/30/25 07:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City								
Barium	**201**	ug/L	5.0	0.64	1	05/01/25 13:06	05/23/25 11:32	7440-39-3	
Beryllium	**<0.12**	ug/L	1.0	0.12	1	05/01/25 13:06	05/23/25 11:32	7440-41-7	
Boron	**336**	ug/L	100	6.4	1	05/01/25 13:06	05/23/25 11:32	7440-42-8	
Calcium	**146000**	ug/L	200	26.9	1	05/01/25 13:06	05/23/25 11:32	7440-70-2	
Cobalt	**<1.2**	ug/L	5.0	1.2	1	05/01/25 13:06	05/23/25 11:32	7440-48-4	
Iron	**18200**	ug/L	50.0	9.1	1	05/01/25 13:06	05/23/25 11:32	7439-89-6	
Lead	**<3.8**	ug/L	10.0	3.8	1	05/01/25 13:06	05/23/25 11:32	7439-92-1	
Lithium	**26.2**	ug/L	10.0	3.7	1	05/01/25 13:06	05/23/25 11:32	7439-93-2	
Magnesium	**30600**	ug/L	50.0	20.1	1	05/01/25 13:06	05/23/25 11:32	7439-95-4	
Manganese	**1700**	ug/L	5.0	0.39	1	05/01/25 13:06	05/23/25 11:32	7439-96-5	
Molybdenum	**43.0**	ug/L	20.0	1.0	1	05/01/25 13:06	05/23/25 11:32	7439-98-7	
Potassium	**5280**	ug/L	500	69.7	1	05/01/25 13:06	05/23/25 11:32	7440-09-7	
Sodium	**10800**	ug/L	500	115	1	05/01/25 13:06	05/23/25 11:32	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Antimony	**<0.12**	ug/L	1.0	0.12	1	05/01/25 12:55	05/16/25 14:58	7440-36-0	
Arsenic	**29.9**	ug/L	1.0	0.13	1	05/01/25 12:55	05/16/25 14:58	7440-38-2	
Cadmium	**<0.050**	ug/L	0.50	0.050	1	05/01/25 12:55	05/16/25 14:58	7440-43-9	
Chromium	**0.33J**	ug/L	1.0	0.30	1	05/01/25 12:55	05/16/25 14:58	7440-47-3	
Selenium	**<0.18**	ug/L	1.0	0.18	1	05/01/25 12:55	05/16/25 14:58	7782-49-2	
Thallium	**<0.14**	ug/L	1.0	0.14	1	05/01/25 12:55	05/16/25 14:58	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Kansas City								
Mercury	**0.12J**	ug/L	0.20	0.096	1	05/12/25 15:00	05/13/25 12:59	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Kansas City								
Alkalinity, Total as CaCO3	**488**	mg/L	20.0	10.5	1		05/13/25 21:23		
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City								
Total Dissolved Solids	**530**	mg/L	10.0	10.0	1		05/06/25 13:15		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City								
Iron, Ferric	**<0.041**	mg/L	0.050	0.041	1		05/28/25 09:15	20074-52-6	
Iron, Ferrous	Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City								
Iron, Ferrous	**24.9**	mg/L	2.5	0.51	1		05/03/25 11:00	15438-31-0	H6

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA
Pace Project No.: 60473868

Sample: L-UMW-7D **Lab ID: 60473868010** Collected: 04/29/25 13:50 Received: 04/30/25 07:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D Pace Analytical Services - Kansas City								
Sulfide, Total	**0.018J**	mg/L	0.050	0.016	1		05/02/25 14:32	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City								
Chloride	**7.5**	mg/L	1.0	0.53	1		05/23/25 10:37	16887-00-6	
Fluoride	**<0.12**	mg/L	0.20	0.12	1		05/23/25 10:37	16984-48-8	
Sulfate	**10.6**	mg/L	1.0	0.55	1		05/23/25 10:37	14808-79-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA
Pace Project No.: 60473868

Sample: L-UMW-9D **Lab ID: 60473868011** Collected: 04/29/25 10:49 Received: 04/30/25 07:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City								
Barium	**500**	ug/L	5.0	0.64	1	05/01/25 13:06	05/23/25 11:34	7440-39-3	
Beryllium	**<0.12**	ug/L	1.0	0.12	1	05/01/25 13:06	05/23/25 11:34	7440-41-7	
Boron	**83.8J**	ug/L	100	6.4	1	05/01/25 13:06	05/23/25 11:34	7440-42-8	
Calcium	**117000**	ug/L	200	26.9	1	05/01/25 13:06	05/23/25 11:34	7440-70-2	
Cobalt	**<1.2**	ug/L	5.0	1.2	1	05/01/25 13:06	05/23/25 11:34	7440-48-4	
Iron	**24100**	ug/L	50.0	9.1	1	05/01/25 13:06	05/23/25 11:34	7439-89-6	
Lead	**<3.8**	ug/L	10.0	3.8	1	05/01/25 13:06	05/23/25 11:34	7439-92-1	
Lithium	**19.3**	ug/L	10.0	3.7	1	05/01/25 13:06	05/23/25 11:34	7439-93-2	
Magnesium	**30500**	ug/L	50.0	20.1	1	05/01/25 13:06	05/23/25 11:34	7439-95-4	
Manganese	**404**	ug/L	5.0	0.39	1	05/01/25 13:06	05/23/25 11:34	7439-96-5	
Molybdenum	**1.0J**	ug/L	20.0	1.0	1	05/01/25 13:06	05/23/25 11:34	7439-98-7	
Potassium	**4480**	ug/L	500	69.7	1	05/01/25 13:06	05/23/25 11:34	7440-09-7	
Sodium	**14000**	ug/L	500	115	1	05/01/25 13:06	05/23/25 11:34	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Antimony	**<0.12**	ug/L	1.0	0.12	1	05/01/25 12:55	05/16/25 15:01	7440-36-0	
Arsenic	**28.1**	ug/L	1.0	0.13	1	05/01/25 12:55	05/16/25 15:01	7440-38-2	
Cadmium	**<0.050**	ug/L	0.50	0.050	1	05/01/25 12:55	05/16/25 15:01	7440-43-9	
Chromium	**0.43J**	ug/L	1.0	0.30	1	05/01/25 12:55	05/16/25 15:01	7440-47-3	
Selenium	**<0.18**	ug/L	1.0	0.18	1	05/01/25 12:55	05/16/25 15:01	7782-49-2	
Thallium	**<0.14**	ug/L	1.0	0.14	1	05/01/25 12:55	05/16/25 15:01	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Kansas City								
Mercury	**<0.096**	ug/L	0.20	0.096	1	05/12/25 15:00	05/13/25 13:02	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Kansas City								
Alkalinity, Total as CaCO3	**406**	mg/L	20.0	10.5	1		05/13/25 21:39		
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City								
Total Dissolved Solids	**469**	mg/L	10.0	10.0	1		05/06/25 13:15		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City								
Iron, Ferric	**<0.041**	mg/L	0.050	0.041	1		05/28/25 09:15	20074-52-6	
Iron, Ferrous	Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City								
Iron, Ferrous	**32.4**	mg/L	2.5	0.51	1		05/03/25 11:00	15438-31-0	H6

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA
Pace Project No.: 60473868

Sample: L-UMW-9D **Lab ID: 60473868011** Collected: 04/29/25 10:49 Received: 04/30/25 07:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D Pace Analytical Services - Kansas City								
Sulfide, Total	**0.13**	mg/L	0.050	0.016	1		05/02/25 14:32	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City								
Chloride	**21.6**	mg/L	5.0	3.8	5		05/23/25 11:04	16887-00-6	
Fluoride	**<0.16**	mg/L	0.20	0.16	1		05/23/25 10:51	16984-48-8	
Sulfate	**<0.43**	mg/L	1.0	0.43	1		05/23/25 10:51	14808-79-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA
Pace Project No.: 60473868

Sample: L-UMW-DUP-1 **Lab ID: 60473868012** Collected: 04/29/25 13:50 Received: 04/30/25 07:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City								
Barium	**198**	ug/L	5.0	0.64	1	05/01/25 13:06	05/23/25 11:36	7440-39-3	
Beryllium	**<0.12**	ug/L	1.0	0.12	1	05/01/25 13:06	05/23/25 11:36	7440-41-7	
Boron	**312**	ug/L	100	6.4	1	05/01/25 13:06	05/23/25 11:36	7440-42-8	
Calcium	**145000**	ug/L	200	26.9	1	05/01/25 13:06	05/23/25 11:36	7440-70-2	
Cobalt	**<1.2**	ug/L	5.0	1.2	1	05/01/25 13:06	05/23/25 11:36	7440-48-4	
Iron	**17900**	ug/L	50.0	9.1	1	05/01/25 13:06	05/23/25 11:36	7439-89-6	
Lead	**<3.8**	ug/L	10.0	3.8	1	05/01/25 13:06	05/23/25 11:36	7439-92-1	
Lithium	**27.7**	ug/L	10.0	3.7	1	05/01/25 13:06	05/23/25 11:36	7439-93-2	
Magnesium	**30600**	ug/L	50.0	20.1	1	05/01/25 13:06	05/23/25 11:36	7439-95-4	
Manganese	**1670**	ug/L	5.0	0.39	1	05/01/25 13:06	05/23/25 11:36	7439-96-5	
Molybdenum	**41.4**	ug/L	20.0	1.0	1	05/01/25 13:06	05/23/25 11:36	7439-98-7	
Potassium	**4950**	ug/L	500	69.7	1	05/01/25 13:06	05/23/25 11:36	7440-09-7	
Sodium	**9840**	ug/L	500	115	1	05/01/25 13:06	05/23/25 11:36	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Antimony	**<0.12**	ug/L	1.0	0.12	1	05/01/25 12:55	05/16/25 15:07	7440-36-0	
Arsenic	**31.0**	ug/L	1.0	0.13	1	05/01/25 12:55	05/16/25 15:07	7440-38-2	
Cadmium	**<0.050**	ug/L	0.50	0.050	1	05/01/25 12:55	05/16/25 15:07	7440-43-9	
Chromium	**0.32J**	ug/L	1.0	0.30	1	05/01/25 12:55	05/16/25 15:07	7440-47-3	
Selenium	**<0.18**	ug/L	1.0	0.18	1	05/01/25 12:55	05/16/25 15:07	7782-49-2	
Thallium	**<0.14**	ug/L	1.0	0.14	1	05/01/25 12:55	05/16/25 15:07	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Kansas City								
Mercury	**<0.096**	ug/L	0.20	0.096	1	05/12/25 15:00	05/13/25 13:04	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Kansas City								
Alkalinity, Total as CaCO3	**491**	mg/L	20.0	10.5	1		05/13/25 21:46		
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City								
Total Dissolved Solids	**539**	mg/L	10.0	10.0	1		05/06/25 13:15		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City								
Iron, Ferric	**<0.041**	mg/L	0.050	0.041	1		05/28/25 09:15	20074-52-6	
Iron, Ferrous	Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City								
Iron, Ferrous	**25.4**	mg/L	2.5	0.51	1		05/03/25 11:00	15438-31-0	H6

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA
Pace Project No.: 60473868

Sample: L-UMW-DUP-1 **Lab ID: 60473868012** Collected: 04/29/25 13:50 Received: 04/30/25 07:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D Pace Analytical Services - Kansas City								
Sulfide, Total	**0.026J**	mg/L	0.050	0.016	1		05/02/25 14:32	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City								
Chloride	**7.5**	mg/L	1.0	0.53	1		05/23/25 11:18	16887-00-6	
Fluoride	**<0.12**	mg/L	0.20	0.12	1		05/23/25 11:18	16984-48-8	
Sulfate	**10.4**	mg/L	1.0	0.55	1		05/23/25 11:18	14808-79-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA
Pace Project No.: 60473868

Sample: L-UMW-FB-1 **Lab ID: 60473868013** Collected: 04/29/25 09:30 Received: 04/30/25 07:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City								
Barium	**<0.64**	ug/L	5.0	0.64	1	05/01/25 13:06	05/23/25 11:38	7440-39-3	
Beryllium	**<0.12**	ug/L	1.0	0.12	1	05/01/25 13:06	05/23/25 11:38	7440-41-7	
Boron	**<6.4**	ug/L	100	6.4	1	05/01/25 13:06	05/23/25 11:38	7440-42-8	
Calcium	**<26.9**	ug/L	200	26.9	1	05/01/25 13:06	05/23/25 11:38	7440-70-2	
Cobalt	**<1.2**	ug/L	5.0	1.2	1	05/01/25 13:06	05/23/25 11:38	7440-48-4	
Iron	**<9.1**	ug/L	50.0	9.1	1	05/01/25 13:06	05/23/25 11:38	7439-89-6	
Lead	**<3.8**	ug/L	10.0	3.8	1	05/01/25 13:06	05/23/25 11:38	7439-92-1	
Lithium	**<3.7**	ug/L	10.0	3.7	1	05/01/25 13:06	05/23/25 11:38	7439-93-2	
Magnesium	**<20.1**	ug/L	50.0	20.1	1	05/01/25 13:06	05/23/25 11:38	7439-95-4	
Manganese	**<0.39**	ug/L	5.0	0.39	1	05/01/25 13:06	05/23/25 11:38	7439-96-5	
Molybdenum	**<1.0**	ug/L	20.0	1.0	1	05/01/25 13:06	05/23/25 11:38	7439-98-7	
Potassium	**<69.7**	ug/L	500	69.7	1	05/01/25 13:06	05/23/25 11:38	7440-09-7	
Sodium	**<115**	ug/L	500	115	1	05/01/25 13:06	05/23/25 11:38	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Antimony	**<0.12**	ug/L	1.0	0.12	1	05/01/25 12:55	05/16/25 15:09	7440-36-0	
Arsenic	**<0.13**	ug/L	1.0	0.13	1	05/01/25 12:55	05/16/25 15:09	7440-38-2	
Cadmium	**<0.050**	ug/L	0.50	0.050	1	05/01/25 12:55	05/16/25 15:09	7440-43-9	
Chromium	**<0.30**	ug/L	1.0	0.30	1	05/01/25 12:55	05/16/25 15:09	7440-47-3	
Selenium	**<0.18**	ug/L	1.0	0.18	1	05/01/25 12:55	05/16/25 15:09	7782-49-2	
Thallium	**<0.14**	ug/L	1.0	0.14	1	05/01/25 12:55	05/16/25 15:09	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Kansas City								
Mercury	**<0.096**	ug/L	0.20	0.096	1	05/12/25 15:00	05/13/25 13:06	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Kansas City								
Alkalinity, Total as CaCO3	**<10.5**	mg/L	20.0	10.5	1		05/13/25 21:49		
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City								
Total Dissolved Solids	**<5.0**	mg/L	5.0	5.0	1		05/06/25 13:15		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City								
Iron, Ferric	**<0.041**	mg/L	0.050	0.041	1		05/28/25 09:15	20074-52-6	
Iron, Ferrous	Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City								
Iron, Ferrous	**<0.041**	mg/L	0.20	0.041	1		05/03/25 11:00	15438-31-0	H6

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA
Pace Project No.: 60473868

Sample: L-UMW-FB-1 **Lab ID: 60473868013** Collected: 04/29/25 09:30 Received: 04/30/25 07:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D Pace Analytical Services - Kansas City								
Sulfide, Total	**<0.016**	mg/L	0.050	0.016	1		05/02/25 14:32	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City								
Chloride	**0.58J**	mg/L	1.0	0.53	1		05/23/25 11:46	16887-00-6	
Fluoride	**<0.12**	mg/L	0.20	0.12	1		05/23/25 11:46	16984-48-8	
Sulfate	**<0.55**	mg/L	1.0	0.55	1		05/23/25 11:46	14808-79-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA
Pace Project No.: 60473868

Sample: L-UMW-FB-2 **Lab ID: 60473868014** Collected: 04/29/25 11:20 Received: 04/30/25 07:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City								
Barium	**<0.64**	ug/L	5.0	0.64	1	05/01/25 13:06	05/23/25 11:45	7440-39-3	
Beryllium	**<0.12**	ug/L	1.0	0.12	1	05/01/25 13:06	05/23/25 11:45	7440-41-7	
Boron	**<6.4**	ug/L	100	6.4	1	05/01/25 13:06	05/23/25 11:45	7440-42-8	
Calcium	**<26.9**	ug/L	200	26.9	1	05/01/25 13:06	05/23/25 11:45	7440-70-2	
Cobalt	**<1.2**	ug/L	5.0	1.2	1	05/01/25 13:06	05/23/25 11:45	7440-48-4	
Iron	**<9.1**	ug/L	50.0	9.1	1	05/01/25 13:06	05/23/25 11:45	7439-89-6	
Lead	**<3.8**	ug/L	10.0	3.8	1	05/01/25 13:06	05/23/25 11:45	7439-92-1	
Lithium	**<3.7**	ug/L	10.0	3.7	1	05/01/25 13:06	05/23/25 11:45	7439-93-2	
Magnesium	**<20.1**	ug/L	50.0	20.1	1	05/01/25 13:06	05/23/25 11:45	7439-95-4	
Manganese	**<0.39**	ug/L	5.0	0.39	1	05/01/25 13:06	05/23/25 11:45	7439-96-5	
Molybdenum	**<1.0**	ug/L	20.0	1.0	1	05/01/25 13:06	05/23/25 11:45	7439-98-7	
Potassium	**<69.7**	ug/L	500	69.7	1	05/01/25 13:06	05/23/25 11:45	7440-09-7	
Sodium	**<115**	ug/L	500	115	1	05/01/25 13:06	05/23/25 11:45	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Antimony	**<0.12**	ug/L	1.0	0.12	1	05/01/25 12:55	05/16/25 15:12	7440-36-0	
Arsenic	**<0.13**	ug/L	1.0	0.13	1	05/01/25 12:55	05/16/25 15:12	7440-38-2	
Cadmium	**<0.050**	ug/L	0.50	0.050	1	05/01/25 12:55	05/16/25 15:12	7440-43-9	
Chromium	**0.32J**	ug/L	1.0	0.30	1	05/01/25 12:55	05/16/25 15:12	7440-47-3	
Selenium	**<0.18**	ug/L	1.0	0.18	1	05/01/25 12:55	05/16/25 15:12	7782-49-2	
Thallium	**<0.14**	ug/L	1.0	0.14	1	05/01/25 12:55	05/16/25 15:12	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Kansas City								
Mercury	**<0.096**	ug/L	0.20	0.096	1	05/12/25 15:00	05/13/25 13:13	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Kansas City								
Alkalinity, Total as CaCO3	**<10.5**	mg/L	20.0	10.5	1		05/13/25 21:52		
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City								
Total Dissolved Solids	**<5.0**	mg/L	5.0	5.0	1		05/06/25 13:15		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City								
Iron, Ferric	**<0.041**	mg/L	0.050	0.041	1		05/28/25 14:32	20074-52-6	
Iron, Ferrous	Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City								
Iron, Ferrous	**<0.041**	mg/L	0.20	0.041	1		05/03/25 11:00	15438-31-0	H6

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA
Pace Project No.: 60473868

Sample: L-UMW-FB-2 **Lab ID: 60473868014** Collected: 04/29/25 11:20 Received: 04/30/25 07:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D Pace Analytical Services - Kansas City								
Sulfide, Total	**0.056**	mg/L	0.050	0.016	1		05/02/25 14:32	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City								
Chloride	**0.58J**	mg/L	1.0	0.53	1		05/23/25 12:00	16887-00-6	
Fluoride	**<0.12**	mg/L	0.20	0.12	1		05/23/25 12:00	16984-48-8	
Sulfate	**<0.55**	mg/L	1.0	0.55	1		05/23/25 12:00	14808-79-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA
Pace Project No.: 60473868

Sample: L-UMW-2D **Lab ID: 60473868016** Collected: 04/30/25 09:00 Received: 05/02/25 07:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City								
Barium	**116**	ug/L	5.0	0.64	1	05/06/25 08:42	05/22/25 20:01	7440-39-3	
Beryllium	**<0.12**	ug/L	1.0	0.12	1	05/06/25 08:42	05/22/25 20:01	7440-41-7	
Boron	**1070**	ug/L	100	6.4	1	05/06/25 08:42	05/22/25 20:01	7440-42-8	
Calcium	**112000**	ug/L	200	26.9	1	05/06/25 08:42	05/22/25 20:01	7440-70-2	
Cobalt	**<1.2**	ug/L	5.0	1.2	1	05/06/25 08:42	05/22/25 20:01	7440-48-4	
Iron	**3930**	ug/L	50.0	9.1	1	05/06/25 08:42	05/22/25 20:01	7439-89-6	
Lead	**<3.8**	ug/L	10.0	3.8	1	05/06/25 08:42	05/22/25 20:01	7439-92-1	
Lithium	**28.1**	ug/L	10.0	3.7	1	05/06/25 08:42	05/22/25 20:01	7439-93-2	
Magnesium	**23200**	ug/L	50.0	20.1	1	05/06/25 08:42	05/22/25 20:01	7439-95-4	
Manganese	**434**	ug/L	5.0	0.39	1	05/06/25 08:42	05/22/25 20:01	7439-96-5	
Molybdenum	**30.7**	ug/L	20.0	1.0	1	05/06/25 08:42	05/22/25 20:01	7439-98-7	
Potassium	**6880**	ug/L	500	69.7	1	05/06/25 08:42	05/22/25 20:01	7440-09-7	
Sodium	**57400**	ug/L	500	115	1	05/06/25 08:42	05/22/25 20:01	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Antimony	**<0.12**	ug/L	1.0	0.12	1	05/06/25 08:42	05/16/25 16:59	7440-36-0	
Arsenic	**0.76J**	ug/L	1.0	0.13	1	05/06/25 08:42	05/16/25 16:59	7440-38-2	
Cadmium	**<0.050**	ug/L	0.50	0.050	1	05/06/25 08:42	05/16/25 16:59	7440-43-9	
Chromium	**0.36J**	ug/L	1.0	0.30	1	05/06/25 08:42	05/16/25 16:59	7440-47-3	
Selenium	**<0.18**	ug/L	1.0	0.18	1	05/06/25 08:42	05/16/25 16:59	7782-49-2	
Thallium	**<0.14**	ug/L	1.0	0.14	1	05/06/25 08:42	05/16/25 16:59	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Kansas City								
Mercury	**<0.096**	ug/L	0.20	0.096	1	05/16/25 14:23	05/19/25 11:30	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Kansas City								
Alkalinity, Total as CaCO3	**286**	mg/L	20.0	10.5	1		05/14/25 15:39		
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City								
Total Dissolved Solids	**655**	mg/L	13.3	13.3	1		05/07/25 15:12		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City								
Iron, Ferric	**<0.041**	mg/L	0.050	0.041	1		05/28/25 14:32	20074-52-6	
Iron, Ferrous	Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City								
Iron, Ferrous	**5.8**	mg/L	0.20	0.041	1		05/03/25 11:00	15438-31-0	H6

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA
Pace Project No.: 60473868

Sample: L-UMW-2D **Lab ID: 60473868016** Collected: 04/30/25 09:00 Received: 05/02/25 07:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D Pace Analytical Services - Kansas City								
Sulfide, Total	**<0.016**	mg/L	0.050	0.016	1		05/05/25 13:33	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City								
Chloride	**29.4**	mg/L	20.0	10.5	20		05/23/25 16:09	16887-00-6	
Fluoride	**0.15J**	mg/L	0.20	0.12	1		05/23/25 15:28	16984-48-8	
Sulfate	**212**	mg/L	20.0	11.0	20		05/23/25 16:09	14808-79-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA
Pace Project No.: 60473868

Sample: L-UMW-8D **Lab ID: 60473868017** Collected: 04/29/25 15:35 Received: 05/02/25 07:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City								
Barium	**88.8**	ug/L	5.0	0.64	1	05/06/25 08:42	05/22/25 20:09	7440-39-3	
Beryllium	**<0.12**	ug/L	1.0	0.12	1	05/06/25 08:42	05/22/25 20:09	7440-41-7	
Boron	**33.1J**	ug/L	100	6.4	1	05/06/25 08:42	05/22/25 20:09	7440-42-8	
Calcium	**24000**	ug/L	200	26.9	1	05/06/25 08:42	05/22/25 20:09	7440-70-2	
Cobalt	**<1.2**	ug/L	5.0	1.2	1	05/06/25 08:42	05/22/25 20:09	7440-48-4	
Iron	**3440**	ug/L	50.0	9.1	1	05/06/25 08:42	05/22/25 20:09	7439-89-6	
Lead	**<3.8**	ug/L	10.0	3.8	1	05/06/25 08:42	05/22/25 20:09	7439-92-1	
Lithium	**5.1J**	ug/L	10.0	3.7	1	05/06/25 08:42	05/22/25 20:09	7439-93-2	
Magnesium	**5660**	ug/L	50.0	20.1	1	05/06/25 08:42	05/22/25 20:09	7439-95-4	
Manganese	**158**	ug/L	5.0	0.39	1	05/06/25 08:42	05/22/25 20:09	7439-96-5	
Molybdenum	**3.2J**	ug/L	20.0	1.0	1	05/06/25 08:42	05/22/25 20:09	7439-98-7	
Potassium	**1900**	ug/L	500	69.7	1	05/06/25 08:42	05/22/25 20:09	7440-09-7	
Sodium	**2000**	ug/L	500	115	1	05/06/25 08:42	05/22/25 20:09	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Antimony	**<0.12**	ug/L	1.0	0.12	1	05/06/25 08:42	05/16/25 17:01	7440-36-0	
Arsenic	**13.3**	ug/L	1.0	0.13	1	05/06/25 08:42	05/16/25 17:01	7440-38-2	
Cadmium	**<0.050**	ug/L	0.50	0.050	1	05/06/25 08:42	05/16/25 17:01	7440-43-9	
Chromium	**<0.30**	ug/L	1.0	0.30	1	05/06/25 08:42	05/16/25 17:01	7440-47-3	
Selenium	**<0.18**	ug/L	1.0	0.18	1	05/06/25 08:42	05/16/25 17:01	7782-49-2	
Thallium	**<0.14**	ug/L	1.0	0.14	1	05/06/25 08:42	05/16/25 17:01	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Kansas City								
Mercury	**<0.096**	ug/L	0.20	0.096	1	05/16/25 14:23	05/19/25 11:32	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Kansas City								
Alkalinity, Total as CaCO3	**101**	mg/L	20.0	10.5	1		05/16/25 20:41		H1
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City								
Total Dissolved Solids	**116**	mg/L	5.0	5.0	1		05/06/25 13:16		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City								
Iron, Ferric	**<0.041**	mg/L	0.050	0.041	1		05/28/25 14:32	20074-52-6	
Iron, Ferrous	Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City								
Iron, Ferrous	**4.2**	mg/L	0.20	0.041	1		05/03/25 11:00	15438-31-0	H6

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA
Pace Project No.: 60473868

Sample: L-UMW-8D **Lab ID: 60473868017** Collected: 04/29/25 15:35 Received: 05/02/25 07:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D Pace Analytical Services - Kansas City								
Sulfide, Total	**0.035J**	mg/L	0.050	0.016	1		05/05/25 13:33	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City								
Chloride	**3.2**	mg/L	1.0	0.53	1		05/23/25 16:23	16887-00-6	
Fluoride	**<0.12**	mg/L	0.20	0.12	1		05/23/25 16:23	16984-48-8	
Sulfate	**3.6**	mg/L	1.0	0.55	1		05/23/25 16:23	14808-79-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA
Pace Project No.: 60473868

Sample: L-UMW-DUP-2 **Lab ID: 60473868018** Collected: 04/30/25 00:00 Received: 05/02/25 07:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City								
Barium	**116**	ug/L	5.0	0.64	1	05/06/25 08:42	05/22/25 20:11	7440-39-3	
Beryllium	**<0.12**	ug/L	1.0	0.12	1	05/06/25 08:42	05/22/25 20:11	7440-41-7	
Boron	**1070**	ug/L	100	6.4	1	05/06/25 08:42	05/22/25 20:11	7440-42-8	
Calcium	**112000**	ug/L	200	26.9	1	05/06/25 08:42	05/22/25 20:11	7440-70-2	
Cobalt	**<1.2**	ug/L	5.0	1.2	1	05/06/25 08:42	05/22/25 20:11	7440-48-4	
Iron	**3960**	ug/L	50.0	9.1	1	05/06/25 08:42	05/22/25 20:11	7439-89-6	
Lead	**<3.8**	ug/L	10.0	3.8	1	05/06/25 08:42	05/22/25 20:11	7439-92-1	
Lithium	**28.9**	ug/L	10.0	3.7	1	05/06/25 08:42	05/22/25 20:11	7439-93-2	
Magnesium	**23100**	ug/L	50.0	20.1	1	05/06/25 08:42	05/22/25 20:11	7439-95-4	
Manganese	**443**	ug/L	5.0	0.39	1	05/06/25 08:42	05/22/25 20:11	7439-96-5	
Molybdenum	**30.9**	ug/L	20.0	1.0	1	05/06/25 08:42	05/22/25 20:11	7439-98-7	
Potassium	**7010**	ug/L	500	69.7	1	05/06/25 08:42	05/22/25 20:11	7440-09-7	
Sodium	**57600**	ug/L	500	115	1	05/06/25 08:42	05/22/25 20:11	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Antimony	**<0.12**	ug/L	1.0	0.12	1	05/06/25 08:42	05/16/25 17:07	7440-36-0	
Arsenic	**0.79J**	ug/L	1.0	0.13	1	05/06/25 08:42	05/16/25 17:07	7440-38-2	
Cadmium	**<0.050**	ug/L	0.50	0.050	1	05/06/25 08:42	05/16/25 17:07	7440-43-9	
Chromium	**0.37J**	ug/L	1.0	0.30	1	05/06/25 08:42	05/16/25 17:07	7440-47-3	
Selenium	**<0.18**	ug/L	1.0	0.18	1	05/06/25 08:42	05/16/25 17:07	7782-49-2	
Thallium	**<0.14**	ug/L	1.0	0.14	1	05/06/25 08:42	05/16/25 17:07	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Kansas City								
Mercury	**<0.096**	ug/L	0.20	0.096	1	05/16/25 14:23	05/19/25 11:34	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Kansas City								
Alkalinity, Total as CaCO3	**286**	mg/L	20.0	10.5	1		05/14/25 15:46		
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City								
Total Dissolved Solids	**652**	mg/L	13.3	13.3	1		05/07/25 15:12		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City								
Iron, Ferric	**<0.041**	mg/L	0.050	0.041	1		05/28/25 14:32	20074-52-6	
Iron, Ferrous	Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City								
Iron, Ferrous	**5.8**	mg/L	0.20	0.041	1		05/03/25 11:00	15438-31-0	H6

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA
Pace Project No.: 60473868

Sample: L-UMW-DUP-2 **Lab ID: 60473868018** Collected: 04/30/25 00:00 Received: 05/02/25 07:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D Pace Analytical Services - Kansas City								
Sulfide, Total	**<0.016**	mg/L	0.050	0.016	1		05/05/25 13:33	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City								
Chloride	**21.3**	mg/L	5.0	2.6	5		05/23/25 16:51	16887-00-6	
Fluoride	**0.15J**	mg/L	0.20	0.12	1		05/23/25 16:37	16984-48-8	
Sulfate	**216**	mg/L	50.0	27.5	50		05/23/25 17:05	14808-79-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: AMEREN LCPA
Pace Project No.: 60473868

QC Batch: 934802
QC Batch Method: EPA 7470
Analysis Method: EPA 7470
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60473868001, 60473868002, 60473868003, 60473868004, 60473868005, 60473868006

METHOD BLANK: 3704594 Matrix: Water
Associated Lab Samples: 60473868001, 60473868002, 60473868003, 60473868004, 60473868005, 60473868006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	<0.096	0.20	0.096	05/13/25 10:14	

LABORATORY CONTROL SAMPLE: 3704595

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.0	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3704596 3704597

Parameter	Units	60473868003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	<0.096	5	5	4.8	5.0	96	99	75-125	4	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: AMEREN LCPA
Pace Project No.: 60473868

QC Batch: 934804
QC Batch Method: EPA 7470
Analysis Method: EPA 7470
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60473868009, 60473868010, 60473868011, 60473868012, 60473868013, 60473868014

METHOD BLANK: 3704603 Matrix: Water
Associated Lab Samples: 60473868009, 60473868010, 60473868011, 60473868012, 60473868013, 60473868014

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	<0.096	0.20	0.096	05/13/25 12:27	

LABORATORY CONTROL SAMPLE: 3704604

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.0	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3704605 3704606

Parameter	Units	60473874005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	<0.096	5	5	5.1	5.0	101	99	75-125	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3704607 3704608

Parameter	Units	60474050002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L		5	5	5.1	5.0	100	99	75-125	2	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: AMEREN LCPA
Pace Project No.: 60473868

QC Batch: 935430
QC Batch Method: EPA 7470
Analysis Method: EPA 7470
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60473868016, 60473868017, 60473868018

METHOD BLANK: 3707831 Matrix: Water
Associated Lab Samples: 60473868016, 60473868017, 60473868018

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	<0.096	0.20	0.096	05/19/25 10:41	

LABORATORY CONTROL SAMPLE: 3707832

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.0	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3707833 3707834

Parameter	Units	60473874017 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	<0.096	5	5	4.9	4.8	98	96	75-125	2	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: AMEREN LCPA
Pace Project No.: 60473868

QC Batch: 933297
QC Batch Method: EPA 200.7
Analysis Method: EPA 200.7
Analysis Description: 200.7 Metals, Total
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60473868001, 60473868002, 60473868003, 60473868004, 60473868005, 60473868006

METHOD BLANK: 3697620 Matrix: Water
Associated Lab Samples: 60473868001, 60473868002, 60473868003, 60473868004, 60473868005, 60473868006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Barium	ug/L	<0.64	5.0	0.64	05/23/25 12:51	
Beryllium	ug/L	<0.12	1.0	0.12	05/23/25 12:51	
Boron	ug/L	<6.4	100	6.4	05/23/25 12:51	
Calcium	ug/L	<26.9	200	26.9	05/23/25 12:51	
Cobalt	ug/L	<1.2	5.0	1.2	05/23/25 12:51	
Iron	ug/L	<9.1	50.0	9.1	05/23/25 12:51	
Lead	ug/L	<3.8	10.0	3.8	05/23/25 12:51	
Lithium	ug/L	<3.7	10.0	3.7	05/23/25 12:51	
Magnesium	ug/L	<20.1	50.0	20.1	05/23/25 12:51	
Manganese	ug/L	<0.39	5.0	0.39	05/23/25 12:51	
Molybdenum	ug/L	<1.0	20.0	1.0	05/23/25 12:51	
Potassium	ug/L	<69.7	500	69.7	05/23/25 12:51	
Sodium	ug/L	<115	500	115	05/23/25 12:51	

LABORATORY CONTROL SAMPLE: 3697621

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	1000	972	97	85-115	
Beryllium	ug/L	1000	989	99	85-115	
Boron	ug/L	1000	914	91	85-115	
Calcium	ug/L	10000	10000	100	85-115	
Cobalt	ug/L	1000	997	100	85-115	
Iron	ug/L	10000	9960	100	85-115	
Lead	ug/L	1000	999	100	85-115	
Lithium	ug/L	1000	973	97	85-115	
Magnesium	ug/L	10000	9700	97	85-115	
Manganese	ug/L	1000	984	98	85-115	
Molybdenum	ug/L	1000	983	98	85-115	
Potassium	ug/L	10000	9760	98	85-115	
Sodium	ug/L	10000	9640	96	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3697622 3697623

Parameter	Units	60473868003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	ug/L	112	1000	1000	1070	1080	96	96	70-130	1	20	
Beryllium	ug/L	<0.12	1000	1000	994	1010	99	101	70-130	2	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: AMEREN LCPA
Pace Project No.: 60473868

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3697622 3697623

Parameter	Units	60473868003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Boron	ug/L	11800	1000	1000	12600	12600	78	78	70-130	0	20	
Calcium	ug/L	104000	10000	10000	112000	112000	81	80	70-130	0	20	
Cobalt	ug/L	<1.2	1000	1000	984	998	98	100	70-130	1	20	
Iron	ug/L	17.2J	10000	10000	9880	9950	99	99	70-130	1	20	
Lead	ug/L	<3.8	1000	1000	967	977	97	98	70-130	1	20	
Lithium	ug/L	26.0	1000	1000	980	993	95	97	70-130	1	20	
Magnesium	ug/L	36.2J	10000	10000	9420	9440	94	94	70-130	0	20	
Manganese	ug/L	12.2	1000	1000	982	999	97	99	70-130	2	20	
Molybdenum	ug/L	554	1000	1000	1540	1560	98	101	70-130	2	20	
Potassium	ug/L	17200	10000	10000	26700	27000	95	97	70-130	1	20	
Sodium	ug/L	96600	10000	10000	104000	104000	79	78	70-130	0	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: AMEREN LCPA
Pace Project No.: 60473868

QC Batch: 933650
QC Batch Method: EPA 200.7
Analysis Method: EPA 200.7
Analysis Description: 200.7 Metals, Total
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60473868009, 60473868010, 60473868011, 60473868012, 60473868013, 60473868014

METHOD BLANK: 3698971 Matrix: Water
Associated Lab Samples: 60473868009, 60473868010, 60473868011, 60473868012, 60473868013, 60473868014

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Barium	ug/L	<0.64	5.0	0.64	05/23/25 11:23	
Beryllium	ug/L	<0.12	1.0	0.12	05/23/25 11:23	
Boron	ug/L	<6.4	100	6.4	05/23/25 11:23	
Calcium	ug/L	<26.9	200	26.9	05/23/25 11:23	
Cobalt	ug/L	<1.2	5.0	1.2	05/23/25 11:23	
Iron	ug/L	<9.1	50.0	9.1	05/23/25 11:23	
Lead	ug/L	<3.8	10.0	3.8	05/23/25 11:23	
Lithium	ug/L	<3.7	10.0	3.7	05/23/25 11:23	
Magnesium	ug/L	<20.1	50.0	20.1	05/23/25 11:23	
Manganese	ug/L	<0.39	5.0	0.39	05/23/25 11:23	
Molybdenum	ug/L	<1.0	20.0	1.0	05/23/25 11:23	
Potassium	ug/L	<69.7	500	69.7	05/23/25 11:23	
Sodium	ug/L	<115	500	115	05/23/25 11:23	

LABORATORY CONTROL SAMPLE: 3698972

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	1000	974	97	85-115	
Beryllium	ug/L	1000	995	100	85-115	
Boron	ug/L	1000	920	92	85-115	
Calcium	ug/L	10000	10000	100	85-115	
Cobalt	ug/L	1000	1000	100	85-115	
Iron	ug/L	10000	9990	100	85-115	
Lead	ug/L	1000	1000	100	85-115	
Lithium	ug/L	1000	972	97	85-115	
Magnesium	ug/L	10000	9760	98	85-115	
Manganese	ug/L	1000	994	99	85-115	
Molybdenum	ug/L	1000	993	99	85-115	
Potassium	ug/L	10000	9770	98	85-115	
Sodium	ug/L	10000	9730	97	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3698973 3698974

Parameter	Units	60474050002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	ug/L		1000	1000	1170	1150	99	97	70-130	1	20	
Beryllium	ug/L		1000	1000	1020	1020	102	102	70-130	0	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: AMEREN LCPA
Pace Project No.: 60473868

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3698973 3698974

Parameter	Units	60474050002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Boron	ug/L	104	1000	1000	1040	1040	94	93	70-130	0	20	
Calcium	ug/L	193000	10000	10000	202000	196000	89	28	70-130	3	20	M1
Cobalt	ug/L		1000	1000	997	996	99	99	70-130	0	20	
Iron	ug/L	1580	10000	10000	12100	11900	105	103	70-130	1	20	
Lead	ug/L		1000	1000	994	983	99	98	70-130	1	20	
Lithium	ug/L		1000	1000	1040	1040	99	99	70-130	1	20	
Magnesium	ug/L	43600	10000	10000	53300	51900	97	83	70-130	3	20	
Manganese	ug/L	3130	1000	1000	4070	4010	95	89	70-130	1	20	
Molybdenum	ug/L		1000	1000	1020	1020	102	102	70-130	0	20	
Potassium	ug/L	6720	10000	10000	16800	16700	101	99	70-130	1	20	
Sodium	ug/L	10500	10000	10000	20300	20000	98	95	70-130	2	20	

MATRIX SPIKE SAMPLE: 3698975

Parameter	Units	60474050003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Barium	ug/L		1000	1200	98	70-130	
Beryllium	ug/L		1000	1030	103	70-130	
Boron	ug/L	83.1J	1000	1030	95	70-130	
Calcium	ug/L	121000	10000	130000	91	70-130	
Cobalt	ug/L		1000	1000	100	70-130	
Iron	ug/L	85.2	10000	10200	101	70-130	
Lead	ug/L		1000	1010	101	70-130	
Lithium	ug/L		1000	1020	99	70-130	
Magnesium	ug/L	21900	10000	31700	97	70-130	
Manganese	ug/L	70.3	1000	1080	101	70-130	
Molybdenum	ug/L		1000	1030	103	70-130	
Potassium	ug/L	5230	10000	15500	103	70-130	
Sodium	ug/L	5240	10000	15200	100	70-130	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: AMEREN LCPA
Pace Project No.: 60473868

QC Batch: 934063
QC Batch Method: EPA 200.7
Analysis Method: EPA 200.7
Analysis Description: 200.7 Metals, Total
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60473868016, 60473868017, 60473868018

METHOD BLANK: 3700770 Matrix: Water
Associated Lab Samples: 60473868016, 60473868017, 60473868018

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Barium	ug/L	<0.64	5.0	0.64	05/22/25 19:50	
Beryllium	ug/L	<0.12	1.0	0.12	05/22/25 19:50	
Boron	ug/L	<6.4	100	6.4	05/22/25 19:50	
Calcium	ug/L	34.5J	200	26.9	05/22/25 19:50	
Cobalt	ug/L	<1.2	5.0	1.2	05/22/25 19:50	
Iron	ug/L	20.1J	50.0	9.1	05/22/25 19:50	
Lead	ug/L	<3.8	10.0	3.8	05/22/25 19:50	
Lithium	ug/L	<3.7	10.0	3.7	05/22/25 19:50	
Magnesium	ug/L	<20.1	50.0	20.1	05/22/25 19:50	
Manganese	ug/L	1.0J	5.0	0.39	05/22/25 19:50	
Molybdenum	ug/L	<1.0	20.0	1.0	05/22/25 19:50	
Potassium	ug/L	<69.7	500	69.7	05/22/25 19:50	
Sodium	ug/L	<115	500	115	05/22/25 19:50	

LABORATORY CONTROL SAMPLE: 3700771

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	1000	954	95	85-115	
Beryllium	ug/L	1000	982	98	85-115	
Boron	ug/L	1000	883	88	85-115	
Calcium	ug/L	10000	9850	98	85-115	
Cobalt	ug/L	1000	1010	101	85-115	
Iron	ug/L	10000	9810	98	85-115	
Lead	ug/L	1000	974	97	85-115	
Lithium	ug/L	1000	952	95	85-115	
Magnesium	ug/L	10000	9580	96	85-115	
Manganese	ug/L	1000	994	99	85-115	
Molybdenum	ug/L	1000	973	97	85-115	
Potassium	ug/L	10000	9470	95	85-115	
Sodium	ug/L	10000	9630	96	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3700773 3700774

Parameter	Units	60473870005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	ug/L		1000	1000	1160	1160	97	97	70-130	0	20	
Beryllium	ug/L		1000	1000	990	1020	99	102	70-130	3	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: AMEREN LCPA
Pace Project No.: 60473868

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3700773 3700774

Parameter	Units	60473870005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Boron	ug/L	299	1000	1000	1200	1200	90	90	70-130	0	20	
Calcium	ug/L	95200	10000	10000	105000	103000	99	83	70-130	2	20	
Cobalt	ug/L		1000	1000	985	1010	99	101	70-130	3	20	
Iron	ug/L	13900	10000	10000	23900	24000	100	101	70-130	0	20	
Lead	ug/L		1000	1000	964	980	96	98	70-130	2	20	
Lithium	ug/L		1000	1000	983	1000	96	98	70-130	2	20	
Magnesium	ug/L	17600	10000	10000	27100	26700	96	92	70-130	1	20	
Manganese	ug/L	1070	1000	1000	2010	2040	94	97	70-130	2	20	
Molybdenum	ug/L		1000	1000	996	1030	98	101	70-130	3	20	
Potassium	ug/L	4170	10000	10000	13700	14000	96	98	70-130	2	20	
Sodium	ug/L	5790	10000	10000	15500	15500	97	97	70-130	0	20	

MATRIX SPIKE SAMPLE: 3700775

Parameter	Units	60473874028 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	214	1000	1150	94	70-130	
Beryllium	ug/L	<0.12	1000	1000	100	70-130	
Boron	ug/L	76.6J	1000	964	89	70-130	
Calcium	ug/L	136000	10000	143000	62	70-130	M1
Cobalt	ug/L	<1.2	1000	988	99	70-130	
Iron	ug/L	34.3J	10000	9780	97	70-130	
Lead	ug/L	<3.8	1000	961	96	70-130	
Lithium	ug/L	29.1	1000	986	96	70-130	
Magnesium	ug/L	24900	10000	33700	89	70-130	
Manganese	ug/L	151	1000	1130	98	70-130	
Molybdenum	ug/L	<1.0	1000	988	99	70-130	
Potassium	ug/L	4740	10000	14400	97	70-130	
Sodium	ug/L	10900	10000	20200	93	70-130	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: AMEREN LCPA
Pace Project No.: 60473868

QC Batch: 933296
QC Batch Method: EPA 200.8
Analysis Method: EPA 200.8
Analysis Description: 200.8 MET
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60473868001, 60473868002, 60473868003, 60473868004, 60473868005, 60473868006

METHOD BLANK: 3697616 Matrix: Water
Associated Lab Samples: 60473868001, 60473868002, 60473868003, 60473868004, 60473868005, 60473868006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	ug/L	<0.12	1.0	0.12	05/16/25 13:04	
Arsenic	ug/L	<0.13	1.0	0.13	05/16/25 13:04	
Cadmium	ug/L	<0.050	0.50	0.050	05/16/25 13:04	
Chromium	ug/L	<0.30	1.0	0.30	05/16/25 13:04	
Selenium	ug/L	<0.18	1.0	0.18	05/16/25 13:04	
Thallium	ug/L	<0.14	1.0	0.14	05/16/25 13:04	

LABORATORY CONTROL SAMPLE: 3697617

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	40	39.0	97	85-115	
Arsenic	ug/L	40	39.6	99	85-115	
Cadmium	ug/L	40	40.1	100	85-115	
Chromium	ug/L	40	40.2	100	85-115	
Selenium	ug/L	40	39.7	99	85-115	
Thallium	ug/L	40	38.6	96	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3697618 3697619

Parameter	Units	60473868003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	ug/L	<0.12	40	40	38.5	38.8	96	97	70-130	1	20	
Arsenic	ug/L	15.6	40	40	55.5	56.3	100	102	70-130	2	20	
Cadmium	ug/L	0.21J	40	40	37.7	37.7	94	94	70-130	0	20	
Chromium	ug/L	0.36J	40	40	39.3	39.2	97	97	70-130	0	20	
Selenium	ug/L	<0.18	40	40	37.5	37.8	93	94	70-130	1	20	
Thallium	ug/L	<0.14	40	40	39.9	40.1	100	100	70-130	1	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: AMEREN LCPA
Pace Project No.: 60473868

QC Batch: 933651
QC Batch Method: EPA 200.8
Analysis Method: EPA 200.8
Analysis Description: 200.8 MET
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60473868009, 60473868010, 60473868011, 60473868012, 60473868013, 60473868014

METHOD BLANK: 3698981 Matrix: Water
Associated Lab Samples: 60473868009, 60473868010, 60473868011, 60473868012, 60473868013, 60473868014

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	ug/L	<0.12	1.0	0.12	05/16/25 14:40	
Arsenic	ug/L	<0.13	1.0	0.13	05/16/25 14:40	
Cadmium	ug/L	<0.050	0.50	0.050	05/16/25 14:40	
Chromium	ug/L	<0.30	1.0	0.30	05/16/25 14:40	
Selenium	ug/L	<0.18	1.0	0.18	05/16/25 14:40	
Thallium	ug/L	<0.14	1.0	0.14	05/16/25 14:40	

LABORATORY CONTROL SAMPLE: 3698982

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	40	39.3	98	85-115	
Arsenic	ug/L	40	39.8	100	85-115	
Cadmium	ug/L	40	39.8	99	85-115	
Chromium	ug/L	40	39.4	98	85-115	
Selenium	ug/L	40	40.9	102	85-115	
Thallium	ug/L	40	37.8	94	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3698983 3698984

Parameter	Units	60474050002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	ug/L		40	40	38.7	38.1	97	95	70-130	2	20	
Arsenic	ug/L		40	40	40.2	40.6	97	98	70-130	1	20	
Cadmium	ug/L		40	40	38.1	37.9	95	94	70-130	1	20	
Chromium	ug/L		40	40	39.3	38.3	97	95	70-130	3	20	
Selenium	ug/L		40	40	38.8	38.2	96	94	70-130	2	20	
Thallium	ug/L		40	40	40.0	39.8	100	99	70-130	1	20	

MATRIX SPIKE SAMPLE: 3698985

Parameter	Units	60473870004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L		40	39.0	97	70-130	
Arsenic	ug/L		40	40.6	100	70-130	
Cadmium	ug/L		40	38.5	96	70-130	
Chromium	ug/L		40	40.2	99	70-130	
Selenium	ug/L		40	39.6	98	70-130	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: AMEREN LCPA
Pace Project No.: 60473868

MATRIX SPIKE SAMPLE: 3698985

Parameter	Units	60473870004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Thallium	ug/L		40	39.7	99	70-130	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: AMEREN LCPA
Pace Project No.: 60473868

QC Batch: 934064
QC Batch Method: EPA 200.8
Analysis Method: EPA 200.8
Analysis Description: 200.8 MET
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60473868016, 60473868017, 60473868018

METHOD BLANK: 3700776 Matrix: Water
Associated Lab Samples: 60473868016, 60473868017, 60473868018

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	ug/L	<0.12	1.0	0.12	05/16/25 16:40	
Arsenic	ug/L	<0.13	1.0	0.13	05/16/25 16:40	
Cadmium	ug/L	<0.050	0.50	0.050	05/16/25 16:40	
Chromium	ug/L	<0.30	1.0	0.30	05/16/25 16:40	
Selenium	ug/L	<0.18	1.0	0.18	05/16/25 16:40	
Thallium	ug/L	<0.14	1.0	0.14	05/16/25 16:40	

LABORATORY CONTROL SAMPLE: 3700777

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	40	39.6	99	85-115	
Arsenic	ug/L	40	40.4	101	85-115	
Cadmium	ug/L	40	40.5	101	85-115	
Chromium	ug/L	40	39.5	99	85-115	
Selenium	ug/L	40	41.7	104	85-115	
Thallium	ug/L	40	38.3	96	85-115	

MATRIX SPIKE SAMPLE: 3700778

Parameter	Units	60473874029 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	<0.12	40	38.8	97	70-130	
Arsenic	ug/L	0.46J	40	39.7	98	70-130	
Cadmium	ug/L	0.12J	40	38.6	96	70-130	
Chromium	ug/L	0.31J	40	38.7	96	70-130	
Selenium	ug/L	0.82J	40	39.6	97	70-130	
Thallium	ug/L	<0.14	40	39.4	98	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3700779 3700780

Parameter	Units	60473870005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	ug/L		40	40	39.6	39.1	99	98	70-130	1	20	
Arsenic	ug/L		40	40	55.8	56.5	98	99	70-130	1	20	
Cadmium	ug/L		40	40	39.0	38.8	97	97	70-130	0	20	
Chromium	ug/L		40	40	39.8	39.6	99	98	70-130	0	20	
Selenium	ug/L		40	40	40.3	40.3	101	101	70-130	0	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: AMEREN LCPA
Pace Project No.: 60473868

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3700779 3700780

Parameter	Units	60473870005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Thallium	ug/L		40	40	39.5	39.2	99	98	70-130	1	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: AMEREN LCPA
Pace Project No.: 60473868

QC Batch: 934386
QC Batch Method: SM 2320B
Analysis Method: SM 2320B
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60473868005, 60473868006

METHOD BLANK: 3702446 Matrix: Water
Associated Lab Samples: 60473868005, 60473868006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<10.5	20.0	10.5	05/08/25 13:29	

LABORATORY CONTROL SAMPLE: 3702447

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	500	499	100	90-110	

SAMPLE DUPLICATE: 3702448

Parameter	Units	60473866001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	661	657	0	10	

SAMPLE DUPLICATE: 3702449

Parameter	Units	60474532001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	253	253	0	10	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: AMEREN LCPA
Pace Project No.: 60473868

QC Batch: 934523
QC Batch Method: SM 2320B
Analysis Method: SM 2320B
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60473868001, 60473868002, 60473868003, 60473868004

METHOD BLANK: 3703239 Matrix: Water
Associated Lab Samples: 60473868001, 60473868002, 60473868003, 60473868004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<10.5	20.0	10.5	05/09/25 11:51	

LABORATORY CONTROL SAMPLE: 3703240

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	500	499	100	90-110	

SAMPLE DUPLICATE: 3703241

Parameter	Units	60473939004 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	208	207	1	10	

SAMPLE DUPLICATE: 3703242

Parameter	Units	60473868003 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	90.1	89.0	1	10	

SAMPLE DUPLICATE: 3703243

Parameter	Units	60473874005 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	467	471	1	10	

SAMPLE DUPLICATE: 3703244

Parameter	Units	60473953003 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	98.9	97.9	1	10	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: AMEREN LCPA
Pace Project No.: 60473868

QC Batch: 934892 | Analysis Method: SM 2320B
QC Batch Method: SM 2320B | Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60473868009, 60473868010, 60473868011, 60473868012, 60473868013, 60473868014

METHOD BLANK: 3705033 Matrix: Water
Associated Lab Samples: 60473868009, 60473868010, 60473868011, 60473868012, 60473868013, 60473868014

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<10.5	20.0	10.5	05/13/25 19:36	

LABORATORY CONTROL SAMPLE: 3705034

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	500	516	103	90-110	

SAMPLE DUPLICATE: 3705035

Parameter	Units	60474053004 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	359	349	3	10	

SAMPLE DUPLICATE: 3705036

Parameter	Units	60474053004 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	359	351	2	10	

SAMPLE DUPLICATE: 3705037

Parameter	Units	60473868010 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	488	489	0	10	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: AMEREN LCPA
Pace Project No.: 60473868

QC Batch: 935027
QC Batch Method: SM 2320B
Analysis Method: SM 2320B
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60473868017

METHOD BLANK: 3705729 Matrix: Water
Associated Lab Samples: 60473868017

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<10.5	20.0	10.5	05/16/25 19:21	

LABORATORY CONTROL SAMPLE: 3705730

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	500	532	106	90-110	

SAMPLE DUPLICATE: 3705731

Parameter	Units	60474070006 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	301	295	2	10	H1

SAMPLE DUPLICATE: 3705732

Parameter	Units	60474306006 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	254	250	1	10	H1

SAMPLE DUPLICATE: 3705733

Parameter	Units	60474306006 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	254	250	2	10	H1

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: AMEREN LCPA
Pace Project No.: 60473868

QC Batch: 935036
QC Batch Method: SM 2320B
Analysis Method: SM 2320B
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60473868016, 60473868018

METHOD BLANK: 3705744 Matrix: Water
Associated Lab Samples: 60473868016, 60473868018

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<10.5	20.0	10.5	05/14/25 12:00	

LABORATORY CONTROL SAMPLE: 3705745

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	500	513	103	90-110	

SAMPLE DUPLICATE: 3705746

Parameter	Units	60474148004 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	681	682	0	10	

SAMPLE DUPLICATE: 3705747

Parameter	Units	60474181004 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	259	257	1	10	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: AMEREN LCPA
Pace Project No.: 60473868

QC Batch: 933633 | Analysis Method: SM 2540C
QC Batch Method: SM 2540C | Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60473868001, 60473868002, 60473868003, 60473868004, 60473868005, 60473868006

METHOD BLANK: 3698856 Matrix: Water
Associated Lab Samples: 60473868001, 60473868002, 60473868003, 60473868004, 60473868005, 60473868006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<5.0	5.0	5.0	05/01/25 13:33	

LABORATORY CONTROL SAMPLE: 3698857

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	1000	1040	104	80-120	

SAMPLE DUPLICATE: 3698858

Parameter	Units	60473868003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	795	805	1	10	

SAMPLE DUPLICATE: 3698859

Parameter	Units	60473874005 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	529	530	0	10	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: AMEREN LCPA
Pace Project No.: 60473868

QC Batch: 934108
QC Batch Method: SM 2540C
Analysis Method: SM 2540C
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60473868009, 60473868010, 60473868011, 60473868012, 60473868013, 60473868014

METHOD BLANK: 3700872 Matrix: Water
Associated Lab Samples: 60473868009, 60473868010, 60473868011, 60473868012, 60473868013, 60473868014

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<5.0	5.0	5.0	05/06/25 13:14	

LABORATORY CONTROL SAMPLE: 3700873

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	1000	1040	104	80-120	

SAMPLE DUPLICATE: 3700874

Parameter	Units	60474043001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	160	154	3	10	

SAMPLE DUPLICATE: 3700875

Parameter	Units	60474053004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	629	620	1	10	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: AMEREN LCPA
Pace Project No.: 60473868

QC Batch: 934109
QC Batch Method: SM 2540C
Analysis Method: SM 2540C
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60473868017

METHOD BLANK: 3700876 Matrix: Water
Associated Lab Samples: 60473868017

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<5.0	5.0	5.0	05/06/25 13:16	

LABORATORY CONTROL SAMPLE: 3700877

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	1000	1040	104	80-120	

SAMPLE DUPLICATE: 3700878

Parameter	Units	60474314004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	609	607	0	10	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: AMEREN LCPA
Pace Project No.: 60473868

QC Batch: 934269
QC Batch Method: SM 2540C
Analysis Method: SM 2540C
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60473868016, 60473868018

METHOD BLANK: 3701859 Matrix: Water
Associated Lab Samples: 60473868016, 60473868018

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<5.0	5.0	5.0	05/07/25 15:10	

LABORATORY CONTROL SAMPLE: 3701860

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	1000	1030	103	80-120	

SAMPLE DUPLICATE: 3701861

Parameter	Units	60474170001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	3270	3230	1	10	

SAMPLE DUPLICATE: 3701862

Parameter	Units	60473870005 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	370	377	2	10	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: AMEREN LCPA
Pace Project No.: 60473868

QC Batch: 933311
QC Batch Method: SM 3500-Fe B#4
Analysis Method: SM 3500-Fe B#4
Analysis Description: Iron, Ferrous
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60473868002, 60473868003, 60473868004, 60473868005, 60473868006

METHOD BLANK: 3697668 Matrix: Water
Associated Lab Samples: 60473868002, 60473868003, 60473868004, 60473868005, 60473868006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Iron, Ferrous	mg/L	<0.041	0.20	0.041	04/29/25 14:30	H6

LABORATORY CONTROL SAMPLE: 3697669

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Ferrous	mg/L	2	2.0	102	90-110	H6

SAMPLE DUPLICATE: 3697670

Parameter	Units	60473874009 Result	Dup Result	RPD	Max RPD	Qualifiers
Iron, Ferrous	mg/L	8.3	8.4	0	20	H6

SAMPLE DUPLICATE: 3697671

Parameter	Units	60473874005 Result	Dup Result	RPD	Max RPD	Qualifiers
Iron, Ferrous	mg/L	12.0	12.0	0	20	H6

SAMPLE DUPLICATE: 3697672

Parameter	Units	60473868003 Result	Dup Result	RPD	Max RPD	Qualifiers
Iron, Ferrous	mg/L	0.10J	0.10J		20	H6

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: AMEREN LCPA
Pace Project No.: 60473868

QC Batch: 933924
QC Batch Method: SM 3500-Fe B#4
Analysis Method: SM 3500-Fe B#4
Analysis Description: Iron, Ferrous
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60473868001, 60473868009, 60473868010, 60473868011, 60473868012, 60473868013, 60473868014, 60473868017

METHOD BLANK: 3700280 Matrix: Water
Associated Lab Samples: 60473868001, 60473868009, 60473868010, 60473868011, 60473868012, 60473868013, 60473868014, 60473868017

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Iron, Ferrous	mg/L	<0.041	0.20	0.041	05/03/25 11:00	H6

LABORATORY CONTROL SAMPLE: 3700281

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Ferrous	mg/L	2	2.0	102	90-110	H6

SAMPLE DUPLICATE: 3700282

Parameter	Units	60473868001 Result	Dup Result	RPD	Max RPD	Qualifiers
Iron, Ferrous	mg/L	28.8	28.8	0	20	H6

SAMPLE DUPLICATE: 3700283

Parameter	Units	60473874017 Result	Dup Result	RPD	Max RPD	Qualifiers
Iron, Ferrous	mg/L	9.4	9.4	0	20	H6

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: AMEREN LCPA
Pace Project No.: 60473868

QC Batch: 933925
QC Batch Method: SM 3500-Fe B#4
Analysis Method: SM 3500-Fe B#4
Analysis Description: Iron, Ferrous
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60473868016, 60473868018

METHOD BLANK: 3700284 Matrix: Water
Associated Lab Samples: 60473868016, 60473868018

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Iron, Ferrous	mg/L	<0.041	0.20	0.041	05/03/25 11:00	H6

LABORATORY CONTROL SAMPLE: 3700285

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Ferrous	mg/L	2	2.0	102	90-110	H6

SAMPLE DUPLICATE: 3700286

Parameter	Units	60473868018 Result	Dup Result	RPD	Max RPD	Qualifiers
Iron, Ferrous	mg/L	5.8	5.8	0	20	H6

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: AMEREN LCPA
Pace Project No.: 60473868

QC Batch: 933493
QC Batch Method: SM 4500-S-2 D
Analysis Method: SM 4500-S-2 D
Analysis Description: 4500S2D Sulfide, Total
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60473868001, 60473868002, 60473868003, 60473868004, 60473868005, 60473868006

METHOD BLANK: 3698276 Matrix: Water
Associated Lab Samples: 60473868001, 60473868002, 60473868003, 60473868004, 60473868005, 60473868006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide, Total	mg/L	<0.016	0.050	0.016	04/30/25 13:50	

LABORATORY CONTROL SAMPLE: 3698277

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	0.5	0.50	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3698279 3698280

Parameter	Units	60473868005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide, Total	mg/L	<0.016	0.5	0.5	0.49	0.47	96	93	75-125	4	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3698283 3698284

Parameter	Units	60473868003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide, Total	mg/L	0.52	0.5	0.5	0.94	0.95	85	86	75-125	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3698286 3698287

Parameter	Units	60473874005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide, Total	mg/L	0.016J	0.5	0.5	0.49	0.47	95	90	75-125	5	20	

SAMPLE DUPLICATE: 3698278

Parameter	Units	60473868005 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	<0.016	<0.016		20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: AMEREN LCPA
Pace Project No.: 60473868

SAMPLE DUPLICATE: 3698281

Parameter	Units	60473868006 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	<0.016	<0.016		20	

SAMPLE DUPLICATE: 3698282

Parameter	Units	60473868003 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	0.52	0.53	2	20	

SAMPLE DUPLICATE: 3698285

Parameter	Units	60473874005 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	0.016J	0.016J		20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: AMEREN LCPA
Pace Project No.: 60473868

QC Batch: 933805
QC Batch Method: SM 4500-S-2 D
Analysis Method: SM 4500-S-2 D
Analysis Description: 4500S2D Sulfide, Total
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60473868009, 60473868010, 60473868011, 60473868012, 60473868013, 60473868014

METHOD BLANK: 3699587 Matrix: Water
Associated Lab Samples: 60473868009, 60473868010, 60473868011, 60473868012, 60473868013, 60473868014

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide, Total	mg/L	<0.016	0.050	0.016	05/02/25 14:32	

LABORATORY CONTROL SAMPLE: 3699588

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	0.5	0.45	91	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3699590 3699591

Parameter	Units	60473874012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide, Total	mg/L	0.018J	0.5	0.5	0.48	0.48	92	93	75-125	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3699594 3699595

Parameter	Units	60473874017 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide, Total	mg/L	0.042J	0.5	0.5	0.52	0.54	96	99	75-125	2	20	

SAMPLE DUPLICATE: 3699589

Parameter	Units	60473874012 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	0.018J	0.018J		20	

SAMPLE DUPLICATE: 3699592

Parameter	Units	60473874014 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	0.019J	0.018J		20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: AMEREN LCPA
Pace Project No.: 60473868

SAMPLE DUPLICATE: 3699593

Parameter	Units	60473874017 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	0.042J	0.041J		20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: AMEREN LCPA
Pace Project No.: 60473868

QC Batch: 933967
QC Batch Method: SM 4500-S-2 D
Analysis Method: SM 4500-S-2 D
Analysis Description: 4500S2D Sulfide, Total
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60473868016, 60473868017, 60473868018

METHOD BLANK: 3700439 Matrix: Water
Associated Lab Samples: 60473868016, 60473868017, 60473868018

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide, Total	mg/L	<0.016	0.050	0.016	05/05/25 13:33	

LABORATORY CONTROL SAMPLE: 3700440

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	0.5	0.52	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3700442 3700443

Parameter	Units	60473868017 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide, Total	mg/L	0.035J	0.5	0.5	0.56	0.54	105	101	75-125	4	20	

SAMPLE DUPLICATE: 3700441

Parameter	Units	60473868017 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	0.035J	0.035J		20	

SAMPLE DUPLICATE: 3700444

Parameter	Units	60473868016 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	<0.016	<0.016		20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: AMEREN LCPA
Pace Project No.: 60473868

QC Batch: 935142
QC Batch Method: EPA 300.0
Analysis Method: EPA 300.0
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60473868001, 60473868002, 60473868003, 60473868004, 60473868005, 60473868006

METHOD BLANK: 3706253 Matrix: Water
Associated Lab Samples: 60473868001, 60473868002, 60473868003, 60473868004, 60473868005, 60473868006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	<0.53	1.0	0.53	05/15/25 05:11	
Fluoride	mg/L	<0.12	0.20	0.12	05/15/25 05:11	
Sulfate	mg/L	<0.55	1.0	0.55	05/15/25 05:11	

LABORATORY CONTROL SAMPLE: 3706254

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.8	96	90-110	
Fluoride	mg/L	2.5	2.5	100	90-110	
Sulfate	mg/L	5	5.1	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3706255 3706256

Parameter	Units	60473868003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	27.6	100	100	113	114	85	86	80-120	1	15	
Fluoride	mg/L	<0.12	2.5	2.5	2.2	2.5	87	99	80-120	13	15	
Sulfate	mg/L	407	250	250	669	657	105	100	80-120	2	15	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3706257 3706258

Parameter	Units	60473874005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	3.8	5	5	8.5	8.0	93	85	80-120	5	15	
Fluoride	mg/L	<0.12	2.5	2.5	2.7	2.4	106	94	80-120	11	15	
Sulfate	mg/L	20.7	10	10	30.7	30.5	100	98	80-120	1	15	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: AMEREN LCPA
Pace Project No.: 60473868

QC Batch: 936168
QC Batch Method: EPA 300.0
Analysis Method: EPA 300.0
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60473868009

METHOD BLANK: 3711067 Matrix: Water
Associated Lab Samples: 60473868009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	0.59J	1.0	0.53	05/22/25 16:59	
Fluoride	mg/L	<0.12	0.20	0.12	05/22/25 16:59	
Sulfate	mg/L	<0.55	1.0	0.55	05/22/25 16:59	

LABORATORY CONTROL SAMPLE: 3711068

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.7	95	90-110	
Fluoride	mg/L	2.5	2.5	99	90-110	
Sulfate	mg/L	5	4.9	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3711069 3711070

Parameter	Units	60474050002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	4.4	5	5	9.5	8.8	101	88	80-120	7	15	
Fluoride	mg/L	<0.12	2.5	2.5	2.7	2.4	107	93	80-120	14	15	
Sulfate	mg/L	73.8	100	100	176	179	102	105	80-120	2	15	

MATRIX SPIKE SAMPLE: 3711071

Parameter	Units	60474050005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	0.59J	5	4.9	85	80-120	
Fluoride	mg/L	<0.12	2.5	2.5	101	80-120	
Sulfate	mg/L	<0.55	5	4.9	93	80-120	

SAMPLE DUPLICATE: 3711201

Parameter	Units	60474050002 Result	Dup Result	RPD	Max RPD	Qualifiers
Chloride	mg/L	4.4	4.3	2	15	
Fluoride	mg/L	<0.12	<0.12		15	
Sulfate	mg/L	73.8	72.6	2	15	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: AMEREN LCPA
Pace Project No.: 60473868

QC Batch: 936176
QC Batch Method: EPA 300.0
Analysis Method: EPA 300.0
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60473868010, 60473868011, 60473868012, 60473868013, 60473868014, 60473868016, 60473868017, 60473868018

METHOD BLANK: 3711108 Matrix: Water
Associated Lab Samples: 60473868010, 60473868011, 60473868012, 60473868013, 60473868014, 60473868016, 60473868017, 60473868018

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	<0.53	1.0	0.53	05/23/25 06:08	
Fluoride	mg/L	<0.12	0.20	0.12	05/23/25 06:08	
Sulfate	mg/L	<0.55	1.0	0.55	05/23/25 06:08	

LABORATORY CONTROL SAMPLE: 3711109

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.8	95	90-110	
Fluoride	mg/L	2.5	2.6	102	90-110	
Sulfate	mg/L	5	5.0	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3711236 3711237

Parameter	Units	60473874017 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	9.9	5	5	14.5	15.4	92	109	80-120	6	15	
Fluoride	mg/L	<0.12	2.5	2.5	2.4	2.8	95	109	80-120	13	15	
Sulfate	mg/L	112	100	100	208	208	96	96	80-120	0	15	

MATRIX SPIKE SAMPLE: 3711239

Parameter	Units	60473874022 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	<0.53	5	4.8	97	80-120	
Fluoride	mg/L	<0.12	2.5	2.6	103	80-120	
Sulfate	mg/L	<0.55	5	5.0	95	80-120	

SAMPLE DUPLICATE: 3711238

Parameter	Units	60473874017 Result	Dup Result	RPD	Max RPD	Qualifiers
Chloride	mg/L	9.9	9.9	0	15	
Fluoride	mg/L	<0.12	<0.12		15	
Sulfate	mg/L	112	109	3	15	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: AMEREN LCPA
Pace Project No.: 60473868

Sample: L-UMW-1D **Lab ID: 60473868001** Collected: 04/25/25 12:30 Received: 04/26/25 06:47 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.0550 ± 0.539 (1.04) C:NA T:94%**	pCi/L	05/21/25 15:00	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**1.38 ± 0.541 (0.821) C:71% T:84%**	pCi/L	05/20/25 14:53	15262-20-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: AMEREN LCPA
Pace Project No.: 60473868

Sample: L-UMW-4D **Lab ID: 60473868002** Collected: 04/25/25 09:50 Received: 04/26/25 06:47 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
		Pace Analytical Services - Greensburg				
Radium-226	EPA 903.1	**-0.118 ± 0.589 (1.19) C:NA T:88%**	pCi/L	05/21/25 15:00	13982-63-3	
		Pace Analytical Services - Greensburg				
Radium-228	EPA 904.0	**0.854 ± 0.507 (0.948) C:77% T:83%**	pCi/L	05/20/25 14:54	15262-20-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: AMEREN LCPA
Pace Project No.: 60473868

Sample: L-UMW-5D **Lab ID: 60473868003** Collected: 04/25/25 10:55 Received: 04/26/25 06:47 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.660 ± 0.464 (0.654) C:NA T:94%**	pCi/L	05/21/25 15:00	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**1.41 ± 0.560 (0.883) C:77% T:82%**	pCi/L	05/20/25 14:54	15262-20-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: AMEREN LCPA
Pace Project No.: 60473868

Sample: L-UMW-6D **Lab ID: 60473868004** Collected: 04/25/25 13:00 Received: 04/26/25 06:47 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
		Pace Analytical Services - Greensburg				
Radium-226	EPA 903.1	**0.483 ± 0.754 (1.29) C:NA T:96%**	pCi/L	05/21/25 15:00	13982-63-3	
		Pace Analytical Services - Greensburg				
Radium-228	EPA 904.0	**0.809 ± 0.473 (0.884) C:76% T:88%**	pCi/L	05/20/25 14:54	15262-20-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: AMEREN LCPA
Pace Project No.: 60473868

Sample: L-BMW-1D **Lab ID: 60473868005** Collected: 04/24/25 10:30 Received: 04/26/25 06:47 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
		Pace Analytical Services - Greensburg				
Radium-226	EPA 903.1	**1.39 ± 0.821 (1.13) C:NA T:96%**	pCi/L	05/21/25 15:00	13982-63-3	
		Pace Analytical Services - Greensburg				
Radium-228	EPA 904.0	**1.74 ± 0.660 (1.03) C:76% T:86%**	pCi/L	05/20/25 14:54	15262-20-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: AMEREN LCPA
Pace Project No.: 60473868

Sample: L-BMW-2D **Lab ID: 60473868006** Collected: 04/24/25 13:20 Received: 04/26/25 06:47 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
		Pace Analytical Services - Greensburg				
Radium-226	EPA 903.1	**0.110 ± 0.729 (1.34) C:NA T:90%**	pCi/L	05/21/25 15:00	13982-63-3	
		Pace Analytical Services - Greensburg				
Radium-228	EPA 904.0	**1.26 ± 0.560 (0.936) C:73% T:84%**	pCi/L	05/20/25 14:54	15262-20-1	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: AMEREN LCPA
Pace Project No.: 60473868

Sample: L-UMW-MS-1 **Lab ID: 60473868007** Collected: 04/25/25 10:55 Received: 04/26/25 06:47 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**67.93 %REC ± NA (NA) C:NA T:NA**	pCi/L	05/28/25 14:52	13982-63-3	2e
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**61.79 %REC ± NA (NA) C:NA T:NA**	pCi/L	05/20/25 14:54	15262-20-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: AMEREN LCPA
Pace Project No.: 60473868

Sample: L-UMW-MSD-1 **Lab ID: 60473868008** Collected: 04/25/25 10:55 Received: 04/26/25 06:47 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**58.99 %REC 14.09RPD ± NA (NA) C:NA T:NA**	pCi/L	05/21/25 15:13	13982-63-3	1e
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**69.96 %REC 12.41RPD ± NA (NA) C:NA T:NA**	pCi/L	05/20/25 14:54	15262-20-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: AMEREN LCPA
Pace Project No.: 60473868

Sample: L-UMW-3D **Lab ID: 60473868009** Collected: 04/29/25 09:15 Received: 04/30/25 07:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**-0.0675 ± 0.826 (1.59) C:NA T:91%**	pCi/L	05/21/25 15:13	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**1.26 ± 0.574 (0.974) C:73% T:81%**	pCi/L	05/20/25 14:54	15262-20-1	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: AMEREN LCPA
Pace Project No.: 60473868

Sample: L-UMW-7D **Lab ID: 60473868010** Collected: 04/29/25 13:50 Received: 04/30/25 07:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**-0.557 ± 0.574 (1.24) C:NA T:95%**	pCi/L	05/21/25 15:13	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.497 ± 0.407 (0.809) C:73% T:92%**	pCi/L	05/20/25 14:54	15262-20-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: AMEREN LCPA
Pace Project No.: 60473868

Sample: L-UMW-9D **Lab ID: 60473868011** Collected: 04/29/25 10:49 Received: 04/30/25 07:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.0505 ± 0.633 (1.19) C:NA T:97%**	pCi/L	05/21/25 15:13	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.426 ± 0.448 (0.928) C:73% T:85%**	pCi/L	05/20/25 14:55	15262-20-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: AMEREN LCPA
Pace Project No.: 60473868

Sample: L-UMW-DUP-1 **Lab ID: 60473868012** Collected: 04/29/25 13:50 Received: 04/30/25 07:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.0554 ± 0.875 (1.61) C:NA T:101%**	pCi/L	05/21/25 15:13	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.659 ± 0.442 (0.850) C:70% T:92%**	pCi/L	05/20/25 14:55	15262-20-1	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: AMEREN LCPA
Pace Project No.: 60473868

Sample: L-UMW-FB-1 **Lab ID: 60473868013** Collected: 04/29/25 09:30 Received: 04/30/25 07:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
		Pace Analytical Services - Greensburg				
Radium-226	EPA 903.1	**-1.05 ± 0.802 (1.76) C:NA T:91%**	pCi/L	05/21/25 15:13	13982-63-3	
		Pace Analytical Services - Greensburg				
Radium-228	EPA 904.0	**0.115 ± 0.356 (0.804) C:68% T:89%**	pCi/L	05/20/25 14:55	15262-20-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: AMEREN LCPA
Pace Project No.: 60473868

Sample: L-UMW-FB-2 **Lab ID: 60473868014** Collected: 04/29/25 11:20 Received: 04/30/25 07:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.153 ± 0.766 (1.39) C:NA T:95%**	pCi/L	05/21/25 15:13	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.0513 ± 0.347 (0.796) C:74% T:87%**	pCi/L	05/20/25 14:55	15262-20-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: AMEREN LCPA
Pace Project No.: 60473868

Sample: L-UMW-2D **Lab ID: 60473868016** Collected: 04/30/25 09:00 Received: 05/02/25 07:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
		Pace Analytical Services - Greensburg				
Radium-226	EPA 903.1	**0.323 ± 0.871 (1.54) C:NA T:99%**	pCi/L	05/21/25 13:43	13982-63-3	
		Pace Analytical Services - Greensburg				
Radium-228	EPA 904.0	**1.13 ± 0.561 (0.969) C:67% T:89%**	pCi/L	05/19/25 15:06	15262-20-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: AMEREN LCPA
Pace Project No.: 60473868

Sample: L-UMW-8D **Lab ID: 60473868017** Collected: 04/29/25 15:35 Received: 05/02/25 07:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**-0.0626 ± 0.660 (1.30) C:NA T:95%**	pCi/L	05/21/25 13:43	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.557 ± 0.493 (0.994) C:67% T:87%**	pCi/L	05/19/25 15:06	15262-20-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: AMEREN LCPA
Pace Project No.: 60473868

Sample: L-UMW-DUP-2 **Lab ID: 60473868018** Collected: 04/30/25 00:00 Received: 05/02/25 07:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.684 ± 0.615 (0.934) C:NA T:92%**	pCi/L	05/21/25 13:43	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**1.14 ± 0.558 (0.973) C:71% T:81%**	pCi/L	05/19/25 15:06	15262-20-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL - RADIOCHEMISTRY

Project: AMEREN LCPA
Pace Project No.: 60473868

QC Batch: 744324 Analysis Method: EPA 904.0
QC Batch Method: EPA 904.0 Analysis Description: 904.0 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 60473868001, 60473868002, 60473868003, 60473868004, 60473868005, 60473868006, 60473868007, 60473868008, 60473868009, 60473868010, 60473868011, 60473868012, 60473868013, 60473868014

METHOD BLANK: 3623079 Matrix: Water
Associated Lab Samples: 60473868001, 60473868002, 60473868003, 60473868004, 60473868005, 60473868006, 60473868007, 60473868008, 60473868009, 60473868010, 60473868011, 60473868012, 60473868013, 60473868014

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.473 ± 0.383 (0.757) C:69% T:90%	pCi/L	05/20/25 14:53	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL - RADIOCHEMISTRY

Project: AMEREN LCPA
Pace Project No.: 60473868

QC Batch: 745059
QC Batch Method: EPA 904.0
Analysis Method: EPA 904.0
Analysis Description: 904.0 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 60473868016, 60473868017, 60473868018

METHOD BLANK: 3627338 Matrix: Water
Associated Lab Samples: 60473868016, 60473868017, 60473868018

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.473 ± 0.367 (0.711) C:69% T:89%	pCi/L	05/19/25 15:04	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL - RADIOCHEMISTRY

Project: AMEREN LCPA
Pace Project No.: 60473868

QC Batch: 744323 Analysis Method: EPA 903.1
QC Batch Method: EPA 903.1 Analysis Description: 903.1 Radium-226
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 60473868001, 60473868002, 60473868003, 60473868004, 60473868005, 60473868006, 60473868007, 60473868008, 60473868009, 60473868010, 60473868011, 60473868012, 60473868013, 60473868014

METHOD BLANK: 3623078 Matrix: Water
Associated Lab Samples: 60473868001, 60473868002, 60473868003, 60473868004, 60473868005, 60473868006, 60473868007, 60473868008, 60473868009, 60473868010, 60473868011, 60473868012, 60473868013, 60473868014

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.626 ± 0.333 (0.288) C:NA T:104%	pCi/L	05/21/25 15:00	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL - RADIOCHEMISTRY

Project: AMEREN LCPA
Pace Project No.: 60473868

QC Batch: 745057
QC Batch Method: EPA 903.1
Analysis Method: EPA 903.1
Analysis Description: 903.1 Radium-226
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 60473868016, 60473868017, 60473868018

METHOD BLANK: 3627337 Matrix: Water
Associated Lab Samples: 60473868016, 60473868017, 60473868018

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0389 ± 0.178 (0.361) C:NA T:105%	pCi/L	05/21/25 13:30	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALIFIERS

Project: AMEREN LCPA
Pace Project No.: 60473868

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval). Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

1e	Matrix spike duplicate recovery less than routine acceptance criteria. Results reported based on acceptable RPD for RQS set.
2e	Matrix spike recovery less than routine acceptance criteria. Results reported based on acceptable RPD for RQS set.
B	Analyte was detected in the associated method blank.
H1	Analysis conducted outside the EPA method holding time.
H6	Analysis initiated outside of the 15 minute EPA required holding time.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: AMEREN LCPA
Pace Project No.: 60473868

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60473868001	**L-UMW-1D**	EPA 200.7	933297	EPA 200.7	933530
60473868002	**L-UMW-4D**	EPA 200.7	933297	EPA 200.7	933530
60473868003	**L-UMW-5D**	EPA 200.7	933297	EPA 200.7	933530
60473868004	**L-UMW-6D**	EPA 200.7	933297	EPA 200.7	933530
60473868005	**L-BMW-1D**	EPA 200.7	933297	EPA 200.7	933530
60473868006	**L-BMW-2D**	EPA 200.7	933297	EPA 200.7	933530
60473868009	**L-UMW-3D**	EPA 200.7	933650	EPA 200.7	933723
60473868010	**L-UMW-7D**	EPA 200.7	933650	EPA 200.7	933723
60473868011	**L-UMW-9D**	EPA 200.7	933650	EPA 200.7	933723
60473868012	**L-UMW-DUP-1**	EPA 200.7	933650	EPA 200.7	933723
60473868013	**L-UMW-FB-1**	EPA 200.7	933650	EPA 200.7	933723
60473868014	**L-UMW-FB-2**	EPA 200.7	933650	EPA 200.7	933723
60473868016	**L-UMW-2D**	EPA 200.7	934063	EPA 200.7	934134
60473868017	**L-UMW-8D**	EPA 200.7	934063	EPA 200.7	934134
60473868018	**L-UMW-DUP-2**	EPA 200.7	934063	EPA 200.7	934134
60473868001	**L-UMW-1D**	EPA 200.8	933296	EPA 200.8	933528
60473868002	**L-UMW-4D**	EPA 200.8	933296	EPA 200.8	933528
60473868003	**L-UMW-5D**	EPA 200.8	933296	EPA 200.8	933528
60473868004	**L-UMW-6D**	EPA 200.8	933296	EPA 200.8	933528
60473868005	**L-BMW-1D**	EPA 200.8	933296	EPA 200.8	933528
60473868006	**L-BMW-2D**	EPA 200.8	933296	EPA 200.8	933528
60473868009	**L-UMW-3D**	EPA 200.8	933651	EPA 200.8	933704
60473868010	**L-UMW-7D**	EPA 200.8	933651	EPA 200.8	933704
60473868011	**L-UMW-9D**	EPA 200.8	933651	EPA 200.8	933704
60473868012	**L-UMW-DUP-1**	EPA 200.8	933651	EPA 200.8	933704
60473868013	**L-UMW-FB-1**	EPA 200.8	933651	EPA 200.8	933704
60473868014	**L-UMW-FB-2**	EPA 200.8	933651	EPA 200.8	933704
60473868016	**L-UMW-2D**	EPA 200.8	934064	EPA 200.8	934133
60473868017	**L-UMW-8D**	EPA 200.8	934064	EPA 200.8	934133
60473868018	**L-UMW-DUP-2**	EPA 200.8	934064	EPA 200.8	934133
60473868001	**L-UMW-1D**	EPA 7470	934802	EPA 7470	934824
60473868002	**L-UMW-4D**	EPA 7470	934802	EPA 7470	934824
60473868003	**L-UMW-5D**	EPA 7470	934802	EPA 7470	934824
60473868004	**L-UMW-6D**	EPA 7470	934802	EPA 7470	934824
60473868005	**L-BMW-1D**	EPA 7470	934802	EPA 7470	934824
60473868006	**L-BMW-2D**	EPA 7470	934802	EPA 7470	934824
60473868009	**L-UMW-3D**	EPA 7470	934804	EPA 7470	934826
60473868010	**L-UMW-7D**	EPA 7470	934804	EPA 7470	934826
60473868011	**L-UMW-9D**	EPA 7470	934804	EPA 7470	934826
60473868012	**L-UMW-DUP-1**	EPA 7470	934804	EPA 7470	934826
60473868013	**L-UMW-FB-1**	EPA 7470	934804	EPA 7470	934826
60473868014	**L-UMW-FB-2**	EPA 7470	934804	EPA 7470	934826
60473868016	**L-UMW-2D**	EPA 7470	935430	EPA 7470	935467
60473868017	**L-UMW-8D**	EPA 7470	935430	EPA 7470	935467
60473868018	**L-UMW-DUP-2**	EPA 7470	935430	EPA 7470	935467

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: AMEREN LCPA
Pace Project No.: 60473868

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60473868001	**L-UMW-1D**	EPA 903.1	744323		
60473868002	**L-UMW-4D**	EPA 903.1	744323		
60473868003	**L-UMW-5D**	EPA 903.1	744323		
60473868004	**L-UMW-6D**	EPA 903.1	744323		
60473868005	**L-BMW-1D**	EPA 903.1	744323		
60473868006	**L-BMW-2D**	EPA 903.1	744323		
60473868007	**L-UMW-MS-1**	EPA 903.1	744323		
60473868008	**L-UMW-MSD-1**	EPA 903.1	744323		
60473868009	**L-UMW-3D**	EPA 903.1	744323		
60473868010	**L-UMW-7D**	EPA 903.1	744323		
60473868011	**L-UMW-9D**	EPA 903.1	744323		
60473868012	**L-UMW-DUP-1**	EPA 903.1	744323		
60473868013	**L-UMW-FB-1**	EPA 903.1	744323		
60473868014	**L-UMW-FB-2**	EPA 903.1	744323		
60473868016	**L-UMW-2D**	EPA 903.1	745057		
60473868017	**L-UMW-8D**	EPA 903.1	745057		
60473868018	**L-UMW-DUP-2**	EPA 903.1	745057		
60473868001	**L-UMW-1D**	EPA 904.0	744324		
60473868002	**L-UMW-4D**	EPA 904.0	744324		
60473868003	**L-UMW-5D**	EPA 904.0	744324		
60473868004	**L-UMW-6D**	EPA 904.0	744324		
60473868005	**L-BMW-1D**	EPA 904.0	744324		
60473868006	**L-BMW-2D**	EPA 904.0	744324		
60473868007	**L-UMW-MS-1**	EPA 904.0	744324		
60473868008	**L-UMW-MSD-1**	EPA 904.0	744324		
60473868009	**L-UMW-3D**	EPA 904.0	744324		
60473868010	**L-UMW-7D**	EPA 904.0	744324		
60473868011	**L-UMW-9D**	EPA 904.0	744324		
60473868012	**L-UMW-DUP-1**	EPA 904.0	744324		
60473868013	**L-UMW-FB-1**	EPA 904.0	744324		
60473868014	**L-UMW-FB-2**	EPA 904.0	744324		
60473868016	**L-UMW-2D**	EPA 904.0	745059		
60473868017	**L-UMW-8D**	EPA 904.0	745059		
60473868018	**L-UMW-DUP-2**	EPA 904.0	745059		
60473868001	**L-UMW-1D**	SM 2320B	934523		
60473868002	**L-UMW-4D**	SM 2320B	934523		
60473868003	**L-UMW-5D**	SM 2320B	934523		
60473868004	**L-UMW-6D**	SM 2320B	934523		
60473868005	**L-BMW-1D**	SM 2320B	934386		
60473868006	**L-BMW-2D**	SM 2320B	934386		
60473868009	**L-UMW-3D**	SM 2320B	934892		
60473868010	**L-UMW-7D**	SM 2320B	934892		
60473868011	**L-UMW-9D**	SM 2320B	934892		
60473868012	**L-UMW-DUP-1**	SM 2320B	934892		
60473868013	**L-UMW-FB-1**	SM 2320B	934892		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: AMEREN LCPA
Pace Project No.: 60473868

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60473868014	**L-UMW-FB-2**	SM 2320B	934892		
60473868016	**L-UMW-2D**	SM 2320B	935036		
60473868017	**L-UMW-8D**	SM 2320B	935027		
60473868018	**L-UMW-DUP-2**	SM 2320B	935036		
60473868001	**L-UMW-1D**	SM 2540C	933633		
60473868002	**L-UMW-4D**	SM 2540C	933633		
60473868003	**L-UMW-5D**	SM 2540C	933633		
60473868004	**L-UMW-6D**	SM 2540C	933633		
60473868005	**L-BMW-1D**	SM 2540C	933633		
60473868006	**L-BMW-2D**	SM 2540C	933633		
60473868009	**L-UMW-3D**	SM 2540C	934108		
60473868010	**L-UMW-7D**	SM 2540C	934108		
60473868011	**L-UMW-9D**	SM 2540C	934108		
60473868012	**L-UMW-DUP-1**	SM 2540C	934108		
60473868013	**L-UMW-FB-1**	SM 2540C	934108		
60473868014	**L-UMW-FB-2**	SM 2540C	934108		
60473868016	**L-UMW-2D**	SM 2540C	934269		
60473868017	**L-UMW-8D**	SM 2540C	934109		
60473868018	**L-UMW-DUP-2**	SM 2540C	934269		
60473868001	**L-UMW-1D**	SM 3500-Fe B#4	936597		
60473868002	**L-UMW-4D**	SM 3500-Fe B#4	936597		
60473868003	**L-UMW-5D**	SM 3500-Fe B#4	936597		
60473868004	**L-UMW-6D**	SM 3500-Fe B#4	936597		
60473868005	**L-BMW-1D**	SM 3500-Fe B#4	936597		
60473868006	**L-BMW-2D**	SM 3500-Fe B#4	936597		
60473868009	**L-UMW-3D**	SM 3500-Fe B#4	936597		
60473868010	**L-UMW-7D**	SM 3500-Fe B#4	936597		
60473868011	**L-UMW-9D**	SM 3500-Fe B#4	936597		
60473868012	**L-UMW-DUP-1**	SM 3500-Fe B#4	936597		
60473868013	**L-UMW-FB-1**	SM 3500-Fe B#4	936597		
60473868014	**L-UMW-FB-2**	SM 3500-Fe B#4	936661		
60473868016	**L-UMW-2D**	SM 3500-Fe B#4	936661		
60473868017	**L-UMW-8D**	SM 3500-Fe B#4	936661		
60473868018	**L-UMW-DUP-2**	SM 3500-Fe B#4	936661		
60473868001	**L-UMW-1D**	SM 3500-Fe B#4	933924		
60473868002	**L-UMW-4D**	SM 3500-Fe B#4	933311		
60473868003	**L-UMW-5D**	SM 3500-Fe B#4	933311		
60473868004	**L-UMW-6D**	SM 3500-Fe B#4	933311		
60473868005	**L-BMW-1D**	SM 3500-Fe B#4	933311		
60473868006	**L-BMW-2D**	SM 3500-Fe B#4	933311		
60473868009	**L-UMW-3D**	SM 3500-Fe B#4	933924		
60473868010	**L-UMW-7D**	SM 3500-Fe B#4	933924		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: AMEREN LCPA
Pace Project No.: 60473868

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60473868011	**L-UMW-9D**	SM 3500-Fe B#4	933924		
60473868012	**L-UMW-DUP-1**	SM 3500-Fe B#4	933924		
60473868013	**L-UMW-FB-1**	SM 3500-Fe B#4	933924		
60473868014	**L-UMW-FB-2**	SM 3500-Fe B#4	933924		
60473868016	**L-UMW-2D**	SM 3500-Fe B#4	933925		
60473868017	**L-UMW-8D**	SM 3500-Fe B#4	933924		
60473868018	**L-UMW-DUP-2**	SM 3500-Fe B#4	933925		
60473868001	**L-UMW-1D**	SM 4500-S-2 D	933493		
60473868002	**L-UMW-4D**	SM 4500-S-2 D	933493		
60473868003	**L-UMW-5D**	SM 4500-S-2 D	933493		
60473868004	**L-UMW-6D**	SM 4500-S-2 D	933493		
60473868005	**L-BMW-1D**	SM 4500-S-2 D	933493		
60473868006	**L-BMW-2D**	SM 4500-S-2 D	933493		
60473868009	**L-UMW-3D**	SM 4500-S-2 D	933805		
60473868010	**L-UMW-7D**	SM 4500-S-2 D	933805		
60473868011	**L-UMW-9D**	SM 4500-S-2 D	933805		
60473868012	**L-UMW-DUP-1**	SM 4500-S-2 D	933805		
60473868013	**L-UMW-FB-1**	SM 4500-S-2 D	933805		
60473868014	**L-UMW-FB-2**	SM 4500-S-2 D	933805		
60473868016	**L-UMW-2D**	SM 4500-S-2 D	933967		
60473868017	**L-UMW-8D**	SM 4500-S-2 D	933967		
60473868018	**L-UMW-DUP-2**	SM 4500-S-2 D	933967		
60473868001	**L-UMW-1D**	EPA 300.0	935142		
60473868002	**L-UMW-4D**	EPA 300.0	935142		
60473868003	**L-UMW-5D**	EPA 300.0	935142		
60473868004	**L-UMW-6D**	EPA 300.0	935142		
60473868005	**L-BMW-1D**	EPA 300.0	935142		
60473868006	**L-BMW-2D**	EPA 300.0	935142		
60473868009	**L-UMW-3D**	EPA 300.0	936168		
60473868010	**L-UMW-7D**	EPA 300.0	936176		
60473868011	**L-UMW-9D**	EPA 300.0	936176		
60473868012	**L-UMW-DUP-1**	EPA 300.0	936176		
60473868013	**L-UMW-FB-1**	EPA 300.0	936176		
60473868014	**L-UMW-FB-2**	EPA 300.0	936176		
60473868016	**L-UMW-2D**	EPA 300.0	936176		
60473868017	**L-UMW-8D**	EPA 300.0	936176		
60473868018	**L-UMW-DUP-2**	EPA 300.0	936176		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

WO# : 60473868

60473868

Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-LENE-0009_Sample Con		
	Revision: 2	Effective Date: 01/12/2022	Issued By: Lenexa

Client Name: Rocksmith Geoeng

Courier: FedEx ☐ UPS ☐ VIA ☐ Clay ☐ PEX ☐ ECI ☐ Pace ☐ Xroads ☐ Client ☐ Other ☐

Tracking #: _____ Pace Shipping Label Used? Yes ☐ No ☐

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

Packing Material: Bubble Wrap ☐ Bubble Bags ☐ Foam ☐ None ☐ Other ☐

Thermometer Used: T-301 **Type of Ice:** (Wet) Blue None

Cooler Temperature (°C): As-read 20.1/7.6/1.8 Corr. Factor +0.1 Corrected 20.2/7.7/1.1/1.7

Temperature should be above freezing to 6°C 1.6/2.2/19.7 2.3/19.8

Date and initials of person examining contents: PV 4/28/25

Chain of Custody present:	☐Yes ☐No ☐N/A	
Chain of Custody relinquished:	☐Yes ☐No ☐N/A	
Samples arrived within holding time:	☐Yes ☐No ☐N/A	Did not receive HCL vials
Short Hold Time analyses (<72hr):	☐Yes ☐No ☐N/A	for L-UMW-ID.
Rush Turn Around Time requested:	☐Yes ☐No ☐N/A	
Sufficient volume:	☐Yes ☐No ☐N/A	
Correct containers used:	☐Yes ☐No ☐N/A	
Pace containers used:	☐Yes ☐No ☐N/A	
Containers intact:	☐Yes ☐No ☐N/A	
Unpreserved 5035A / TX1005/1006 soils frozen in 48hrs?	☐Yes ☐No ☐N/A	
Filtered volume received for dissolved tests?	☐Yes ☐No ☐N/A	
Sample labels match COC: Date / time / ID / analyses	☐Yes ☐No ☐N/A	
Samples contain multiple phases? Matrix: WT	☐Yes ☐No ☐N/A	
Containers requiring pH preservation in compliance? (HNO_3, H_2SO_4, HCl<2; NaOH>9 Sulfide, NaOH>10 Cyanide) (Exceptions: VOA, Micro, O&G, KS TPH, OK-DRO) LOT#: 96888/84728	☐Yes ☐No ☐N/A	List sample IDs, volumes, lot #'s of preservative and the date/time added.
Cyanide water sample checks: Lead acetate strip turns dark? (Record only)	☐Yes ☐No	
Potassium iodide test strip turns blue/purple? (Preserve)	☐Yes ☐No	
Trip Blank present:	☐Yes ☐No ☐N/A	
Headspace in VOA vials (>6mm):	☐Yes ☐No ☐N/A	
Samples from USDA Regulated Area: State:	☐Yes ☐No ☐N/A	
Additional labels attached to 5035A / TX1005 vials in the field?	☐Yes ☐No ☐N/A	

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: _____

Pace® Location Requested (City/State):
Pace Analytical Kansas
9608 Loiret Blvd., Lenexa, KS 66219

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

60473868

Scan QR Code for instructions

Company Name:	Rocksmith Geoengineering, LLC.	Contact/Report To:	Mark Haddock
Street Address:	2320 Creve Coeur Mill Road, Maryland Heights, MO 63043	Phone #:	314-974-6578
		E-Mail:	mark.haddock@rocksmithgeo.com
		Cc E-Mail:	
Customer Project #:	COC #1		
Project Name:	AMEREN LCPA	Invoice To:	Mark Haddock
		Invoice E-Mail:	mark.haddock@rocksmithgeo.com
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	
		Quote #:	
Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [ ] ET		County / State origin of sample(s):	Missouri
Data Deliverables: [ ] Level II [ ] Level III [ ] Level IV [ ] EQUIS [ ] Other		Regulatory Program (DW, RCRA, etc.) as applicable:	Reportable [ ] Yes [ ] No
		Rush (Pre-approval required): [ ] Same Day [ ] 1 Day [ ] 2 Day [ ] 3 Day [ ] Other _____	DW PWSID # or WW Permit # as applicable:
		Date Results Requested:	Field Filtered (if applicable): [ ] Yes [ ] No Analysis:

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) 90mL, (10) Other

*** Preservative Types: (1) None, (2) HNO_3, (3) H_2SO_4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) $NaHSO_4$, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only: Proj. Mgr: Jamie Church; AcctNum / Client ID:; Table #:; Profile / Template: 15857; Prelog / Bottle Ord. ID: EZ 3244554

Preservation non-conformance identified for sample.

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Composite Start Date	Composite Start Time	Collected or Composite End Date	Collected or Composite End Time	# Cont.	Res. Chlorine Results	Res. Chlorine Units	Chloride/Fluoride/Sulfate	TDS / Alkalinity	COD / TOC	App III and Cat/An Metals (200.7)*	Appendix IV Metals (200.7/200.8/7470)**	UWL Metals (200.7)***	TOX	Radium 226 & Radium 228	Ferrous/Ferric Iron	Sulfide	Sample Comment
Specify Container Size **										1	1	3	3	3	3	3	1	6	3	
Identify Container Preservative Type***										1	1	3	2	2	2	3	2	4	6	
Analysis Requested																				
L-UMW-1D	WT	G			4-25-25	1230	9			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
L-UMW-2D	WT																			
L-UMW-3D	WT																			
L-UMW-4D	WT	G			4-25-25	0950	9			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
L-UMW-5D	WT	G			4-25-25	1055	9			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
L-UMW-6D	WT	G			1	1300	9			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
L-UMW-7D	WT																			
L-UMW-8D	WT																			
L-UMW-9D	WT																			
L-BMW-1D	WT	G			4-24-25	1030	9			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	

Additional Instructions from Pace®:
App III and Cat/An Metals - EPA 200.7: Fe, Mg, Mn, K, Na, Ca, B
**App IV Metals - EPA 200.7 -Ba,Be,Co,Pb,Li,Mo and 200.8 Metals - Sb,As,Cd,Cr,Se,Tl +7470 Hg
***UWL Metals - 200.7: Al, Cu, Ni, Ag, Zn + Hardness

Collected By: (Printed Name) Grant Morey
Signature:

Customer Remarks / Special Conditions / Possible Hazards: 20-2/3-7/1-1/1-7/2-3/19.8

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)	On Ice:
6	T-301	+0.1			

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
Rocksmith	4-25-25/1600		4/26 0647	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Delivered by: [ ] In- Person [ ] Courier
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	[ ] FedEx [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: 1 of 2

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

Pace® Location Requested (City/State):
Pace Analytical Kansas
9608 Loiret Blvd., Lenexa, KS 66219

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

60473868

Scan QR Code for instructions

Company Name:	Rocksmith Geoengineering, LLC.	Contact/Report To:	Mark Haddock
Street Address:	2320 Creve Coeur Mill Road, Maryland Heights, MO 63043	Phone #:	314-974-6578
		E-Mail:	mark.haddock@rocksmithgeo.com
		Cc E-Mail:	
Customer Project #:	COC# 1		
Project Name:	AMEREN LCPA	Invoice To:	Mark Haddock
		Invoice E-Mail:	mark.haddock@rocksmithgeo.com
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	
		Quote #:	
Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [ ] ET		County / State origin of sample(s):	Missouri

Data Deliverables:
[ ] Level II [ ] Level III [ ] Level IV
[ ] EQUIS
[ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [ ] Yes [ ] No

Rush (Pre-approval required):
[ ] Same Day [ ] 1 Day [ ] 2 Day [ ] 3 Day [ ] Other _____

DW PWSID # or WW Permit # as applicable:

Date Results Requested:

Field Filtered (if applicable): [ ] Yes [ ] No
Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

Specify Container Size **: 1 1 3 3 3 3 3 1 6 3
Identify Container Preservative Type***: 1 1 3 2 2 2 3 2 4 6

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) 90mL, (10) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Customer Sample ID	Matrix *	Comp / Grab	Composite Start Date	Composite Start Time	Collected or Composite End Date	Collected or Composite End Time	# Cont.	Res. Chlorine Results	Res. Chlorine Units	Chloride/Fluoride/Sulfate	TDS / Alkalinity	COD / TOC	App III and Cat/An Metals (200.7)*	Appendix IV Metals (200.7/200.8/7470)**	UWL Metals (200.7)***	TOX	Radium 226 & Radium 228	Ferrous/Ferric Iron	Sulfide	Sample Comment
L-BMW-2D	WT	G			4-24-25	1320	9			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
L-UMW-DUP-1	WT																			
L-UMW-DUP-2	WT																			
L-UMW-FB-1	WT																			
L-UMW-FB-2	WT																			
L-UMW-MS-1	WT	G			4-25-25	1055	9			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	collected@L-UMW-SD
L-UMW-MSD-1	WT	G			4-25-25	1055	9			✓	✓	✓	✓	✓	–	✓	✓	✓	✓	↓

Lab Use Only
Proj. Mgr: Jamie Church
AcctNum / Client ID:
Table #:
Profile / Template: 15857
Prelog / Bottle Ord. ID: EZ 3244554

Preservation non-conformance identified for sample:

Additional Instructions from Pace®:
App III and Cat/An Metals - EPA 200.7: Fe, Mg, Mn, K, Na, Ca, B
**App IV Metals - EPA 200.7 -Ba,Be,Co,Pb,Li,Mo and 200.8 Metals - Sb,As,Cd,Cr,Se,Tl +7470 Hg
***UWL Metals - 200.7: Al, Cu, Ni, Ag, Zn + Hardness

Collected By: (Printed Name) Grant Morey
Signature:

Customer Remarks / Special Conditions / Possible Hazards: 19.8/20.2/3.7/1.1/1.7/2.3

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)	On Ice:
6	T-301	+0.1			

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
Grant Morey / Rocksmith	4-25-25/1600	[signature] PACE	4/25 0647	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Delivered by: [ ] In- Person [ ] Courier
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	[ ] FedEX [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: 2 of 2

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

DC#_Title: ENV-FRM-LENE-0001 v07_Sample Container Count
Effective Date: 7/12/2024

1/2

Client: Rocksmith Geoeng Profile/EZ #: 3244554

Site:

Notes: DO not log Ferrous Iron for L-umw-1D.

COC Line Item	Matrix	VG9H	DG9H	DG9Q	VG9U	DG9U	DG9M	DG9B	BG1U	AG1H	AG1U	AG2U	AG3S	AG4U	AG5U	JGFU	WGKU	WGDU	BP1U	BP2U	BP3U	BP1N	BP3N	BP3F	BP3S	BP3B	BP3Z	WPDU	ZPLC	Other		
1	WT												2						1			2	1				1					
2																																
3																																
4	WT		3				(MS/MSD)						2						1			2	1				1					
5	↓		6										6						3			2	3				3					
6			3										2						1			2	1				1					
7																																
8																																
9																																
10	WT		2										2						1			2	1				1					
11																																
12																																

Container Codes

Glass			
DG9B	40mL bisulfate clear vial	WGKU	8oz clear soil jar
DG9H	40mL HCl amber voa vial	WGFU	4oz clear soil jar
DG9M	40mL MeOH clear vial	WG2U	2oz clear soil jar
DG9Q	40mL TSP amber vial	JGFU	4oz unpreserved amber wide
DG9S	40mL H2SO4 amber vial	AG0U	100mL unores amber glass
DG9T	40mL Na Thio amber vial	AG1H	1L HCl amber glass
DG9U	40mL amber unpreserved	AG1S	1L H2SO4 amber glass
VG9H	40mL HCl clear vial	AG1T	1L Na Thiosulfate clear/amber glass
VG9T	40mL Na Thio. clear vial	AG1U	1liter unpres amber glass
VG9U	40mL unpreserved clear vial	AG2N	500mL HNO3 amber glass
BG1S	1liter H2SO4 clear glass	AG2S	500mL H2SO4 amber glass
BG1U	1liter unpres glass	AG3S	250mL H2SO4 amber glass
BG3H	250mL HCL Clear glass	AG2U	500mL unpres amber glass
BG3U	250mL Unpres Clear glass	AG3U	250mL unpres amber glass
WGDU	16oz clear soil jar	AG4U	125mL unpres amber glass
		AG5U	100mL unpres amber glass

Plastic	
BP1B	1L NAOH plastic
BP1N	1L HNO3 plastic
BP1S	1L H2SO4 plastic
BP1U	1L unpreserved plastic
BP1Z	1L NaOH, Zn Acetate
BP2B	500mL NAOH plastic
BP2N	500mL HNO3 plastic
BP2S	500mL H2SO4 plastic
BP2U	500mL unpreserved plastic
BP2Z	500mL NaOH, Zn Acetate
BP3B	250mL NaOH plastic
BP3F	250mL HNO3 plastic - field filtered
BP3N	250mL HNO3 plastic
BP3U	250mL unpreserved plastic
BP3S	250mL H2SO4 plastic
BP3Z	250mL NaOH, Zn Acetate
BP4U	125mL unpreserved plastic
BP4N	125mL HNO3 plastic
BP4S	125mL H2SO4 plastic
WPDU	16oz unpresserved plstic

Misc.	
I	Wipe/Swab
SP5T	120mL Coliform Na Thiosulfate
ZPLC	Ziploc Bag
AF	Air Filter
C	Air Cassettes
R	Terracore Kit
U	Summa Can

Matrix	
WT	Water
SL	Solid
NAL	Non-aqueous Liquid
OL	OIL
WP	Wipe
DW	Drinking Water

Work Order Number: 60473868

2/2

DC#_Title: ENV-FRM-LENE-0001 v07_Sample Container Count
Effective Date: 7/12/2024

Client: Rocksmith Geoeng Profile/EZ #: C) 3244554

Site: Notes

COC Line Item	Matrix	VG9H	DG9H	DG9Q	VG9U	DG9U	DG9M	DG9B	BG1U	AG1H	AG1U	AG2U	AG3S	AG4U	AG5U	JGFU	WGKU	WGDU	BP1U	BP2U	BP3U	BP1N	BP3N	BP3F	BP3S	BP3B	BP3Z	WPDU	ZPLC	Other		
1	WT		2										2						1			2	1				1					
2																																
3																																
4																																
5																																
6	WT																					2	(Only 109 RAD)									
7	↓																					2										
8																																
9																																
10																																
11																																
12																																

Container Codes

Glass			
DG9B	40mL bisulfate clear vial	WGKU	8oz clear soil jar
DG9H	40mL HCl amber voa vial	WGFU	4oz clear soil jar
DG9M	40mL MeOH clear vial	WG2U	2oz clear soil jar
DG9Q	40mL TSP amber vial	JGFU	4oz unpreserved amber wide
DG9S	40mL H2SO4 amber vial	AG0U	100mL unores amber glass
DG9T	40mL Na Thio amber vial	AG1H	1L HCl amber glass
DG9U	40mL amber unpreserved	AG1S	1L H2SO4 amber glass
VG9H	40mL HCl clear vial	AG1T	1L Na Thiosulfate clear/amber glass
VG9T	40mL Na Thio. clear vial	AG1U	1liter unpres amber glass
VG9U	40mL unpreserved clear vial	AG2N	500mL HNO3 amber glass
BG1S	1liter H2SO4 clear glass	AG2S	500mL H2SO4 amber glass
BG1U	1liter unpres glass	AG3S	250mL H2SO4 amber glass
BG3H	250mL HCL Clear glass	AG2U	500mL unpres amber glass
BG3U	250mL Unpres Clear glass	AG3U	250mL unpres amber glass
WGDU	16oz clear soil jar	AG4U	125mL unpres amber glass
		AG5U	100mL unpres amber glass

Plastic	
BP1B	1L NAOH plastic
BP1N	1L HNO3 plastic
BP1S	1L H2SO4 plastic
BP1U	1L unpreserved plastic
BP1Z	1L NaOH, Zn Acetate
BP2B	500mL NAOH plastic
BP2N	500mL HNO3 plastic
BP2S	500mL H2SO4 plastic
BP2U	500mL unpreserved plastic
BP2Z	500mL NaOH, Zn Acetate
BP3B	250mL NaOH plastic
BP3F	250mL HNO3 plastic - field filtered
BP3N	250mL HNO3 plastic
BP3U	250mL unpreserved plastic
BP3S	250mL H2SO4 plastic
BP3Z	250mL NaOH, Zn Acetate
BP4U	125mL unpreserved plastic
BP4N	125mL HNO3 plastic
BP4S	125mL H2SO4 plastic
WPDU	16oz unpresserved plstic

Misc.	
I	Wipe/Swab
SP5T	120mL Coliform Na Thiosulfate
ZPLC	Ziploc Bag
AF	Air Filter
C	Air Cassettes
R	Terracore Kit
U	Summa Can

Matrix	
WT	Water
SL	Solid
NAL	Non-aqueous Liquid
OL	OIL
WP	Wipe
DW	Drinking Water

Work Order Number: 60473868

WO# : 60473868

60473868

DC#_Title: ENV-FRM-LENE-0009_Sample Con		
Revision: 2	Effective Date: 01/12/2022	Issued By: Lenexa

Client Name: Rocksmith Cleeng

Courier: FedEx ☐ UPS ☐ VIA ☐ Clay ☐ PEX ☐ ECI ☐ Pace ☐ Xroads ☑ Client ☐ Other ☐

Tracking #: _____ Pace Shipping Label Used? Yes ☐ No ☑

Custody Seal on Cooler/Box Present: Yes ☑ No ☐ Seals intact: Yes ☑ No ☐

Packing Material: Bubble Wrap ☐ Bubble Bags ☑ Foam ☐ None ☐ Other ☐

Thermometer Used: T-301 **Type of Ice:** (Wet) Blue None

Cooler Temperature (°C): **As-read** 2.2/4.4 **Corr. Factor** +0.1 **Corrected** 2.3/4.5 15.3/16.3

Temperature should be above freezing to 6°C 15.2/16.2

Date and initials of person examining contents: PM/30k.5

Chain of Custody present:	☑Yes ☐No ☐N/A	
Chain of Custody relinquished:	☑Yes ☐No ☐N/A	
Samples arrived within holding time:	☑Yes ☐No ☐N/A	
Short Hold Time analyses (<72hr):	☐Yes ☑No ☐N/A	
Rush Turn Around Time requested:	☐Yes ☑No ☐N/A	
Sufficient volume:	☑Yes ☐No ☐N/A	
Correct containers used:	☑Yes ☐No ☐N/A	
Pace containers used:	☑Yes ☐No ☐N/A	
Containers intact:	☑Yes ☐No ☐N/A	
Unpreserved 5035A / TX1005/1006 soils frozen in 48hrs?	☐Yes ☐No ☑N/A	
Filtered volume received for dissolved tests?	☐Yes ☑No ☐N/A	
Sample labels match COC: Date / time / ID / analyses	☑Yes ☐No ☐N/A	
Samples contain multiple phases? Matrix: WT	☐Yes ☑No ☐N/A	
Containers requiring pH preservation in compliance? (HNO_3, H_2SO_4, HCl<2; NaOH>9 Sulfide, NaOH>10 Cyanide) (Exceptions: VOA, Micro, O&G, KS TPH, OK-DRO) **LOT#:** 96808	☑Yes ☐No ☐N/A	List sample IDs, volumes, lot #'s of preservative and the date/time added.
Cyanide water sample checks: Lead acetate strip turns dark? (Record only)	☐Yes ☐No	
Potassium iodide test strip turns blue/purple? (Preserve)	☐Yes ☐No	
Trip Blank present:	☐Yes ☑No ☐N/A	
Headspace in VOA vials (>6mm):	☐Yes ☑No ☐N/A	
Samples from USDA Regulated Area: State:	☐Yes ☐No ☑N/A	
Additional labels attached to 5035A / TX1005 vials in the field?	☐Yes ☐No ☑N/A	

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: _____

Pace® Location Requested (City/State):
Pace Analytical Kansas
9608 Loiret Blvd., Lenexa, KS 66219

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

60473868

Scan QR Code for instructions

Company Name:	Rocksmith Geoengineering, LLC.	Contact/Report To:	Mark Haddock
Street Address:	2320 Creve Coeur Mill Road, Maryland Heights, MO 63043	Phone #:	314-974-6578
		E-Mail:	mark.haddock@rocksmithgeo.com
		Cc E-Mail:	
Customer Project #:	COC #1		
Project Name:	AMEREN LCPA	Invoice To:	Mark Haddock
		Invoice E-Mail:	mark.haddock@rocksmithgeo.com
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	
		Quote #:	
Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [ ] ET		County / State origin of sample(s):	Missouri
Data Deliverables: [ ] Level II [ ] Level III [ ] Level IV [ ] EQUIS [ ] Other	Regulatory Program (DW, RCRA, etc.) as applicable:	Reportable [ ] Yes [ ] No	
	Rush (Pre-approval required): [ ] Same Day [ ] 1 Day [ ] 2 Day [ ] 3 Day [ ] Other	DW PWSID # or WW Permit # as applicable:	
	Date Results Requested:	Field Filtered (if applicable): [ ] Yes [ ] No	
		Analysis:	

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) 90mL, (10) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Composite Start Date	Composite Start Time	Collected or Composite End Date	Collected or Composite End Time	# Cont.	Res. Chlorine Results	Res. Chlorine Units	Chloride/Fluoride/Sulfate	TDS / Alkalinity	COD / TOC	App III and Cat/An Metals (200.7)*	Appendix IV Metals (200.7/200.8/7470)**	UWL Metals (200.7)***	TOX	Radium 226 & Radium 228	Sulfide	Ferrous/Ferric Iron	Sample Comment	Preservation non-conformance identified for sample
										1	1	3	3	3	3	3	1	3	4		
										1	1	3	2	2	2	3	2	6	4		
L-UMW-1D	WT																				
L-UMW-2D	WT																				
L-UMW-3D	WT	G			4-29-25	0915	9			✓	✓	✓	✓	✓	✓	✓	✓	–	✓		
L-UMW-4D	WT																				
L-UMW-5D	WT																				
L-UMW-6D	WT																				
L-UMW-7D	WT				4-29-25	1350	9			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
L-UMW-8D	WT																				
L-UMW-9D	WT	G			4-29-25	1049	9			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
L-BMW-1D	WT																				

Lab Use Only

Proj. Mgr: Jamie Church
AcctNum / Client ID:
Table #:
Profile / Template: 15857
Prelog / Bottle Ord. ID: EZ 3244554

Additional Instructions from Pace®:
App III and Cat/An Metals - EPA 200.7: Fe, Mg, Mn, K, Na, Ca, B
**App IV Metals - EPA 200.7 -Ba,Be,Co,Pb,Li,Mo and 200.8 Metals - Sb,As,Cd,Cr,Se,Tl +7470 Hg
***UWL Metals - 200.7: Al, Cu, Ni, Ag, Zn + Hardness

Collected By:
(Printed Name) Grant Morey
Signature:

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)	On Ice:
4	T301	+0.1		2.3/4.5	

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
Rocksmith	4-29-25/1600	PASL	4/30 0730	15-3/16-3
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Delivered by: [ ] In-Person [ ] Courier
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	[ ] FedEX [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: 1 of 2

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

ENV-FRM-CORQ-0019_v02_110123 ©

Pace® Location Requested (City/State):
Pace Analytical Kansas
9608 Loiret Blvd., Lenexa, KS 66219

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

60473868

Scan QR Code for instructions

Company Name:	Rocksmith Geoengineering, LLC.	Contact/Report To:	Mark Haddock
Street Address:	2320 Creve Coeur Mill Road, Maryland Heights, MO 63043	Phone #:	314-974-6578
		E-Mail:	mark.haddock@rocksmithgeo.com
		Cc E-Mail:	
Customer Project #:	COC# 1		
Project Name:	AMEREN LCPA	Invoice To:	Mark Haddock
		Invoice E-Mail:	mark.haddock@rocksmithgeo.com
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	
		Quote #:	
Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [ ] ET		County / State origin of sample(s):	Missouri

Data Deliverables:
[ ] Level II [ ] Level III [ ] Level IV
[ ] EQUIS
[ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [ ] Yes [ ] No

Rush (Pre-approval required):
[ ] Same Day [ ] 1 Day [ ] 2 Day [ ] 3 Day [ ] Other _____

DW PWSID # or WW Permit # as applicable:

Date Results Requested:

Field Filtered (if applicable): [ ] Yes [ ] No
Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

Specify Container Size **: 1 1 3 3 3 3 3 1 3 6

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) 90mL, (10) Other

Identify Container Preservative Type***: 1 1 3 2 2 2 3 2 6 4

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Analysis Requested

Customer Sample ID	Matrix *	Comp / Grab	Composite Start Date	Composite Start Time	Collected or Composite End Date	Collected or Composite End Time	# Cont.	Res. Chlorine Results	Res. Chlorine Units	Chloride/Fluoride/Sulfate	TDS / Alkalinity	COD / TOC	App III and Cat/An Metals (200.7)*	Appendix IV Metals (200.7/200.8/7470)*	UWL Metals (200.7)***	TOX	Radium 226 & Radium 228	Sulfide	Ferrous/Ferric Iron	Sample Comment	Preservation non-conformance identified for sample.
L-BMW-2D	WT																				
L-UMW-DUP-1	WT	G			4-29-25	1350	9			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
L-UMW-DUP-2	WT																				
L-UMW-FB-1	WT	G			4-29-25	0930	9			✓	✓	✓	✓	✓	✓	-	✓	-	-		
L-UMW-FB-2	WT	G			1	1120	9			✓	✓	✓	✓	✓	✓	-	✓	-	-		
L-UMW-MS-1	WT																				
L-UMW-MSD-1	WT																				

Lab Use Only
Proj. Mgr: Jamie Church
AcctNum / Client ID:
Table #:
Profile / Template: 15857
Prelog / Bottle Ord. ID: EZ 3244554

Additional Instructions from Pace®:
***App III and Cat/An Metals* - EPA 200.7: Fe, Mg, Mn, K, Na, Ca, B**
****App IV Metals - EPA 200.7 -Ba,Be,Co,Pb,Li,Mo and 200.8 Metals - Sb,As,Cd,Cr,Se,Tl +7470 Hg**
*****UWL Metals - 200.7: Al, Cu, Ni, Ag, Zn + Hardness**

Collected By: (Printed Name) Grant Morey
Signature:

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers	Thermometer ID	Correction Factor (°C)	Obs. Temp (°C)	Corrected Temp. (°C)	On Ice:
4	T-301	+0.1		2.3/4.5	

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
Rocksmith	4-29-25/1600		4/30 0730	15.3/16.3
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Delivered by: [ ] In- Person [ ] Courier
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	[ ] FedEX [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: 2 of 2

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

DC#_Title: ENV-FRM-LENE-0001 v07_Sample Container Count
Effective Date: 7/12/2024

1/2

Client: Rocksmith

Profile/EZ # Only print what you log

Site:

Notes Append to 60473868

COC Line Item	Matrix	VG9H	DG9H	DG9Q	VG9U	DG9U	DG9M	DG9B	BG1U	AG1H	AG1U	AG2U	AG3S	AG4U	AG5U	JGFU	WGKU	WGDU	BP1U	BP2U	BP3U	BP1N	BP3N	BP3F	BP3S	BP3B	BP3Z	WPDU	ZPLC	Other		
1																																
2																																
3	WT		2										2						1			2	1				1					
4																																
5																																
6																																
7	WT		2										2						1			2	1				1					
8																																
9	WT		2										2						1			2	1				1					
10																																
11																																
12																																

Container Codes

Glass			
DG9B	40mL bisulfate clear vial	WGKU	8oz clear soil jar
DG9H	40mL HCl amber voa vial	WGFU	4oz clear soil jar
DG9M	40mL MeOH clear vial	WG2U	2oz clear soil jar
DG9Q	40mL TSP amber vial	JGFU	4oz unpreserved amber wide
DG9S	40mL H2SO4 amber vial	AG0U	100mL unores amber glass
DG9T	40mL Na Thio amber vial	AG1H	1L HCl amber glass
DG9U	40mL amber unpreserved	AG1S	1L H2SO4 amber glass
VG9H	40mL HCl clear vial	AG1T	1L Na Thiosulfate clear/amber glass
VG9T	40mL Na Thio. clear vial	AG1U	1liter unpres amber glass
VG9U	40mL unpreserved clear vial	AG2N	500mL HNO3 amber glass
BG1S	1liter H2SO4 clear glass	AG2S	500mL H2SO4 amber glass
BG1U	1liter unpres glass	AG3S	250mL H2SO4 amber glass
BG3H	250mL HCL Clear glass	AG2U	500mL unpres amber glass
BG3U	250mL Unpres Clear glass	AG3U	250mL unpres amber glass
WGDU	16oz clear soil jar	AG4U	125mL unpres amber glass
		AG5U	100mL unpres amber glass

Plastic	
BP1B	1L NAOH plastic
BP1N	1L HNO3 plastic
BP1S	1L H2SO4 plastic
BP1U	1L unpreserved plastic
BP1Z	1L NaOH, Zn Acetate
BP2B	500mL NAOH plastic
BP2N	500mL HNO3 plastic
BP2S	500mL H2SO4 plastic
BP2U	500mL unpreserved plastic
BP2Z	500mL NaOH, Zn Acetate
BP3B	250mL NaOH plastic
BP3F	250mL HNO3 plastic - field filtered
BP3N	250mL HNO3 plastic
BP3U	250mL unpreserved plastic
BP3S	250mL H2SO4 plastic
BP3Z	250mL NaOH, Zn Acetate
BP4U	125mL unpreserved plastic
BP4N	125mL HNO3 plastic
BP4S	125mL H2SO4 plastic
WPDU	16oz unpresserved plstic

Misc.	
I	Wipe/Swab
SP5T	120mL Coliform Na Thiosulfate
ZPLC	Ziploc Bag
AF	Air Filter
C	Air Cassettes
R	Terracore Kit
U	Summa Can

Matrix	
WT	Water
SL	Solid
NAL	Non-aqueous Liquid
OL	OIL
WP	Wipe
DW	Drinking Water

Work Order Number: 60473868

2/2

DC#_Title: ENV-FRM-LENE-0001 v07_Sample Container Count
Effective Date: 7/12/2024

Client: Rocksmith Profile/EZ #:

Site: Notes: Append to 60473868

COC Line Item	Matrix	VG9H	DG9H	DG9Q	VG9U	DG9U	DG9M	DG9B	BG1U	AG1H	AG1U	AG2U	AG3S	AG4U	AG5U	JGFU	WGKU	WGDU	BP1U	BP2U	BP3U	BP1N	BP3N	BP3F	BP3S	BP3B	BP3Z	WPDU	ZPLC	Other		
1																																
2	WT		2										2						1			2	1				1					
3																							+	RM/30								
4	WT		2										2						1			2	1				1					
5	WT		2										2						1			2	1				1					
6																																
7																																
8																																
9																																
10																																
11																																
12																																

Container Codes

Glass			
DG9B	40mL bisulfate clear vial	WGKU	8oz clear soil jar
DG9H	40mL HCl amber voa vial	WGFU	4oz clear soil jar
DG9M	40mL MeOH clear vial	WG2U	2oz clear soil jar
DG9Q	40mL TSP amber vial	JGFU	4oz unpreserved amber wide
DG9S	40mL H2SO4 amber vial	AG0U	100mL unores amber glass
DG9T	40mL Na Thio amber vial	AG1H	1L HCl amber glass
DG9U	40mL amber unpreserved	AG1S	1L H2SO4 amber glass
VG9H	40mL HCl clear vial	AG1T	1L Na Thiosulfate clear/amber glass
VG9T	40mL Na Thio. clear vial	AG1U	1liter unpres amber glass
VG9U	40mL unpreserved clear vial	AG2N	500mL HNO3 amber glass
BG1S	1liter H2SO4 clear glass	AG2S	500mL H2SO4 amber glass
BG1U	1liter unpres glass	AG3S	250mL H2SO4 amber glass
BG3H	250mL HCL Clear glass	AG2U	500mL unpres amber glass
BG3U	250mL Unpres Clear glass	AG3U	250mL unpres amber glass
WGDU	16oz clear soil jar	AG4U	125mL unpres amber glass
		AG5U	100mL unpres amber glass

Plastic	
BP1B	1L NAOH plastic
BP1N	1L HNO3 plastic
BP1S	1L H2SO4 plastic
BP1U	1L unpreserved plastic
BP1Z	1L NaOH, Zn Acetate
BP2B	500mL NAOH plastic
BP2N	500mL HNO3 plastic
BP2S	500mL H2SO4 plastic
BP2U	500mL unpreserved plastic
BP2Z	500mL NaOH, Zn Acetate
BP3B	250mL NaOH plastic
BP3F	250mL HNO3 plastic - field filtered
BP3N	250mL HNO3 plastic
BP3U	250mL unpreserved plastic
BP3S	250mL H2SO4 plastic
BP3Z	250mL NaOH, Zn Acetate
BP4U	125mL unpreserved plastic
BP4N	125mL HNO3 plastic
BP4S	125mL H2SO4 plastic
WPDU	16oz unpresserved plstic

Misc.	
I	Wipe/Swab
SP5T	120mL Coliform Na Thiosulfate
ZPLC	Ziploc Bag
AF	Air Filter
C	Air Cassettes
R	Terracore Kit
U	Summa Can

Matrix	
WT	Water
SL	Solid
NAL	Non-aqueous Liquid
OL	OIL
WP	Wipe
DW	Drinking Water

Work Order Number: 60473868

WO# : 60473868

60473868

DC#_Title: ENV-FRM-LENE-0009_Sample Co		
Revision: 2	Effective Date: 01/12/2022	Issued By: Lenexa

Client Name: Rocksmith Geoeng

Courier: FedEx ☐ UPS ☐ VIA ☐ Clay ☐ PEX ☐ ECI ☐ Pace ☐ Xroads ☐ Client ☐ Other ☐

Tracking #: _____ Pace Shipping Label Used? Yes ☐ No ☐

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

Packing Material: Bubble Wrap ☐ Bubble Bags ☐ Foam ☐ None ☐ Other ☐

Thermometer Used: T-301 **Type of Ice:** Wet Blue None

Cooler Temperature (°C): As-read 2.0/0.9 Corr. Factor +0.1 Corrected 2.1/1.0/13.2

Temperature should be above freezing to 6°C 13-2

Date and initials of person examining contents: MS 5/2/25

Chain of Custody present:	☐Yes ☐No ☐N/A	
Chain of Custody relinquished:	☐Yes ☐No ☐N/A	
Samples arrived within holding time:	☐Yes ☐No ☐N/A	
Short Hold Time analyses (<72hr):	☐Yes ☐No ☐N/A	
Rush Turn Around Time requested:	☐Yes ☐No ☐N/A	
Sufficient volume:	☐Yes ☐No ☐N/A	
Correct containers used:	☐Yes ☐No ☐N/A	
Pace containers used:	☐Yes ☐No ☐N/A	
Containers intact:	☐Yes ☐No ☐N/A	
Unpreserved 5035A / TX1005/1006 soils frozen in 48hrs?	☐Yes ☐No ☐N/A	
Filtered volume received for dissolved tests?	☐Yes ☐No ☐N/A	
Sample labels match COC: Date / time / ID / analyses	☐Yes ☐No ☐N/A	
Samples contain multiple phases? Matrix: WT	☐Yes ☐No ☐N/A	
Containers requiring pH preservation in compliance? (HNO_3, H_2SO_4, HCl<2; NaOH>9 Sulfide, NaOH>10 Cyanide) (Exceptions: VOA, Micro, O&G, KS TPH, OK-DRO) LOT#: 96888/88128	☐Yes ☐No ☐N/A	List sample IDs, volumes, lot #'s of preservative and the date/time added.
Cyanide water sample checks: Lead acetate strip turns dark? (Record only)	☐Yes ☐No	
Potassium iodide test strip turns blue/purple? (Preserve)	☐Yes ☐No	
Trip Blank present:	☐Yes ☐No ☐N/A	
Headspace in VOA vials (>6mm):	☐Yes ☐No ☐N/A	
Samples from USDA Regulated Area: State:	☐Yes ☐No ☐N/A	
Additional labels attached to 5035A / TX1005 vials in the field?	☐Yes ☐No ☐N/A	

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: _____

Pace® Location Requested (City/State):
Pace Analytical Kansas
9608 Loiret Blvd., Lenexa, KS 66219

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

60473868

Scan QR Code for instructions

Company Name:	Rocksmith Geoengineering, LLC.	Contact/Report To:	Mark Haddock
Street Address:	2320 Creve Coeur Mill Road, Maryland Heights, MO 63043	Phone #:	314-974-6578
		E-Mail:	mark.haddock@rocksmithgeo.com
		Cc E-Mail:	
Customer Project #:	COC #1		
Project Name:	AMEREN LCPA	Invoice To:	Mark Haddock
		Invoice E-Mail:	mark.haddock@rocksmithgeo.com
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	
		Quote #:	
Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [ ] ET		County / State origin of sample(s):	Missouri

Data Deliverables:
[ ] Level II [ ] Level III [ ] Level IV
[ ] EQUIS
[ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [ ] Yes [ ] No

Rush (Pre-approval required):
[ ] Same Day [ ] 1 Day [ ] 2 Day [ ] 3 Day [ ] Other _____

DW PWSID # or WW Permit # as applicable:

Date Results Requested:

Field Filtered (if applicable): [ ] Yes [ ] No
Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Composite Start Date	Composite Start Time	Collected or Composite End Date	Collected or Composite End Time	# Cont.	Res. Chlorine Results	Res. Chlorine Units
L-UMW-1D	WT	G			4-30-25	1020	2		
L-UMW-2D	WT	G			4-30-25	0900	9		
L-UMW-3D	WT								
L-UMW-4D	WT								
L-UMW-5D	WT								
L-UMW-6D	WT								
L-UMW-7D	WT								
L-UMW-8D	WT	G			4-29-25	1535	9		
L-UMW-9D	WT								
~~L-BMW-1D~~ L-UMW-DUP-2	WT	G			4-30-25	—	9		

Specify Container Size **: 1 1 3 3 3 3 3 1 3 4

Identify Container Preservative Type***: 1 1 3 2 2 2 3 2 6 4

Analysis Requested

Chloride/Fluoride/Sulfate	TDS / Alkalinity	COD / TOC	App III and Cat/An Metals (200.7)*	Appendix IV Metals (200.7/200.8/7470)*	UWL Metals (200.7)***	TOX	Radium 226 & Radium 228	Sulfide	Ferrous/Ferric	Sample Comment
									✓	Vials only
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Date: 4-30-25

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) 90mL, (10) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only
Proj. Mgr: Jamie Church
AcctNum / Client ID:
Table #:
Profile / Template: 15857
Prelog / Bottle Ord. ID: EZ 3244554

Preservation non-conformance identified for sample:

Additional Instructions from Pace®:
App III and Cat/An Metals - EPA 200.7: Fe, Mg, Mn, K, Na, Ca, B
**App IV Metals - EPA 200.7 -Ba,Be,Co,Pb,Li,Mo and 200.8 Metals - Sb,As,Cd,Cr,Se,Tl +7470 Hg
***UWL Metals - 200.7: Al, Cu, Ni, Ag, Zn + Hardness

Collected By: (Printed Name) Grant Money
Signature:

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)	On Ice:
3	T-701	+0.1	2.1/1.0/3.2		

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Rocksmith	5-1-25/0800		5/2/25 0700

Tracking Number:

Delivered by: [ ] In- Person [ ] Courier
[ ] FedEx [ ] UPS [ ] Other

Page: 1 of 1

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

ENV-FRM-CORQ-0019_v02_110123 ©

Client: Rocksmith Geoeng Profile/EZ # Only print what you log.

Site: Notes Append to 60473868

COC Line Item	Matrix	VG9H	DG9H	DG9Q	VG9U	DG9U	DG9M	DG9B	BG1U	AG1H	AG1U	AG2U	AG3S	AG4U	AG5U	JGFU	WGKU	WGDU	BP1U	BP2U	BP3U	BP1N	BP3N	BP3F	BP3S	BP3B	BP3Z	WPDU	ZPLC	Other		
1	WT		2																													
2	WT		2										2						1			2	1				1					
3																																
4																																
5																																
6																																
7																																
8	WT		2										2						1			2	1				1					
9																																
10	WT		2										2						1			2	1				1					
11																																
12																																

Container Codes

Glass			
DG9B	40mL bisulfate clear vial	WGKU	8oz clear soil jar
DG9H	40mL HCl amber voa vial	WGFU	4oz clear soil jar
DG9M	40mL MeOH clear vial	WG2U	2oz clear soil jar
DG9Q	40mL TSP amber vial	JGFU	4oz unpreserved amber wide
DG9S	40mL H2SO4 amber vial	AG0U	100mL unores amber glass
DG9T	40mL Na Thio amber vial	AG1H	1L HCl amber glass
DG9U	40mL amber unpreserved	AG1S	1L H2SO4 amber glass
VG9H	40mL HCl clear vial	AG1T	1L Na Thiosulfate clear/amber glass
VG9T	40mL Na Thio. clear vial	AG1U	1liter unpres amber glass
VG9U	40mL unpreserved clear vial	AG2N	500mL HNO3 amber glass
BG1S	1liter H2SO4 clear glass	AG2S	500mL H2SO4 amber glass
BG1U	1liter unpres glass	AG3S	250mL H2SO4 amber glass
BG3H	250mL HCL Clear glass	AG2U	500mL unpres amber glass
BG3U	250mL Unpres Clear glass	AG3U	250mL unpres amber glass
WGDU	16oz clear soil jar	AG4U	125mL unpres amber glass
		AG5U	100mL unpres amber glass

Plastic	
BP1B	1L NAOH plastic
BP1N	1L HNO3 plastic
BP1S	1L H2SO4 plastic
BP1U	1L unpreserved plastic
BP1Z	1L NaOH, Zn Acetate
BP2B	500mL NAOH plastic
BP2N	500mL HNO3 plastic
BP2S	500mL H2SO4 plastic
BP2U	500mL unpreserved plastic
BP2Z	500mL NaOH, Zn Acetate
BP3B	250mL NaOH plastic
BP3F	250mL HNO3 plastic - field filtered
BP3N	250mL HNO3 plastic
BP3U	250mL unpreserved plastic
BP3S	250mL H2SO4 plastic
BP3Z	250mL NaOH, Zn Acetate
BP4U	125mL unpreserved plastic
BP4N	125mL HNO3 plastic
BP4S	125mL H2SO4 plastic
WPDU	16oz unpresserved plstic

Misc.	
I	Wipe/Swab
SP5T	120mL Coliform Na Thiosulfate
ZPLC	Ziploc Bag
AF	Air Filter
C	Air Cassettes
R	Terracore Kit
U	Summa Can

Matrix	
WT	Water
SL	Solid
NAL	Non-aqueous Liquid
OL	OIL
WP	Wipe
DW	Drinking Water

Work Order Number: 60473868

Internal Transfer Chain of Custody

☐ Rush Multiplier____X
☐ Samples Pre-Logged into eCOC

State Of Origin: MO
Cert. Needed: ☐ Yes ☒ No
Owner Received Date: 4/26/2025 Results Requested By: 5/19/2025

Workorder: 60473868 **Workorder Name:** AMEREN LCPA

Report To	Subcontract To
Jamie Church Pace Analytical Kansas 9608 Loiret Blvd. Lenexa, KS 66219 Phone 314-838-7223	Pace Analytical Pittsburgh 1638 Roseytown Road Suites 2,3, & 4 Greensburg, PA 15601 Phone (724)850-5600

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers HNO3						Requested Analysis Radium 226	Radium 228											LAB USE ONLY
1	L-UMW-1D	PS	4/25/2025 12:30	60473868001	Water	2						X	X										001	
2	L-UMW-4D	PS	4/25/2025 09:50	60473868002	Water	2						X	X										002	
3	L-UMW-5D	RQS	4/25/2025 10:55	60473868003	Water	2						X	X										003	parent sample for -007/008
4	L-UMW-6D	PS	4/25/2025 13:00	60473868004	Water	2						X	X										004	
5	L-BMW-1D	PS	4/24/2025 10:30	60473868005	Water	2						X	X										005	
6	L-BMW-2D	PS	4/24/2025 13:20	60473868006	Water	2						X	X										006	
7	L-UMW-MS-1	PS	4/25/2025 10:55	60473868007	Water	2						X	X										007	
8	L-UMW-MSD-1	PS	4/25/2025 10:55	60473868008	Water	2						X	X										008	
9	L-UMW-3D	PS	4/29/2025 09:15	60473868009	Water	2						X	X										009	
10	L-UMW-7D	PS	4/29/2025 13:50	60473868010	Water	2						X	X										010	
11	L-UMW-9D	PS	4/29/2025 10:49	60473868011	Water	2						X	X										011	
12	L-UMW-DUP-1	PS	4/29/2025 13:50	60473868012	Water	2						X	X										012	
13	L-UMW-FB-1	PS	4/29/2025 09:30	60473868013	Water	2						X	X										013	
14	L-UMW-FB-2	PS	4/29/2025 11:20	60473868014	Water	2						X	X										014	

WO# : 30775942

30775942

Transfers	Released By	Date/Time	Received By	Date/Time	Comments
1	JAPace	5/1125 1706	[signature]	5/2/25	9:40
2					
3					Location: RECEIVING

Cooler Temperature on Receipt ___ °C	Custody Seal Y or (N)	Received on Ice Y or (N)	Samples Intact (Y) or N

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

WO# : 30775942

PM: CMC Due Date: 05/23/25

CLIENT: PACE_GO_LEKS

DC#_Title: ENV-FRM-GBUR-0088 v07_Sample Condition Upon Receipt-Greensburg

Effective Date: 01/04/2024

WO# : 30775942

PM: CMC Due Date: 05/23/25

CLIENT: PACE_60_LEKS

Client Name: pace-KS

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other

Tracking Number: 445389310774

Initial / Date

Examined By: PS 5/2/25

Labeled By: PS 5/2/25

Temped By: —

Custody Seal on Cooler/Box Present: ☐ Yes ☑ No Seals Intact: ☐ Yes ☑ No

Thermometer Used: — Type of Ice: Wet Blue (None)

Cooler Temperature: Observed Temp — °C Correction Factor: — °C Final Temp: — °C

Temp should be above freezing to 6°C

pH paper Lot# 1003241 D.P.D. Residual Chlorine Lot # —

Comments:	Yes	No	NA	
Chain of Custody Present	✓			1.
Chain of Custody Filled Out:	✓			2.
-Were client corrections present on COC		✓		
Chain of Custody Relinquished	✓			3.
Sampler Name & Signature on COC:		✓		4.
Sample Labels match COC:	✓			5.
-Includes date/time/ID Matrix:	WT			
Samples Arrived within Hold Time:	✓			6.
Short Hold Time Analysis (<72hr remaining):		✓		7.
Rush Turn Around Time Requested:		✓		8.
Sufficient Volume: PS 5/9/25	✓*	✓		9. * See below
Correct Containers Used:	✓			10.
-Pace Containers Used	✓			
Containers Intact:	✓			11.
Orthophosphate field filtered:			✓	12.
Hex Cr Aqueous samples field filtered:			✓	13.
Organic Samples checked for dichlorination			✓	14:
Filtered volume received for dissolved tests:			✓	15:
All containers checked for preservation:	✓			16.
exceptions: VOA, coliform, TOC, O&G, Phenolics, Radon, non-aqueous matrix				PH<2
All containers meet method preservation requirements:	✓			Initial when completed PS Date/Time of Preservation
				Lot# of added Preservative
8260C/D: Headspace in VOA Vials (> 6mm)			✓	17.
624.1: Headspace in VOA Vials (0mm)			✓	18.
Radon: Headspace in RAD Vials (0mm)			✓	19.
Trip Blank Present:			✓	Trip blank custody seal present? YES or NO
Rad Samples Screened <.05 mrem/hr.	✓			Initial when completed PS Date: 5/2/25 Survey Meter SN: 25014380

Comments: Received only samples 001-008 5/2/25 9:40. Did not receive samples 009-014

Note: For NC compliance samples with discrepancies, a copy of this form must be sent to the DEHNR Certification office.
PM Review is documented electronically in LIMS through the SRF Review schedule in the Workorder Edit Screen.

Qualtrax ID: 55680

Internal Transfer Chain of Custody

1078

Pace

☐ Rush Multiplier____X
☐ Samples Pre-Logged into eCOC

State Of Origin: MO
Cert. Needed: ☐ Yes ☒ No

Workorder: 60473868 **Workorder Name:** AMEREN LCPA

Owner Received Date: 4/26/2025 **Results Requested By:** 5/19/2025

Report To	Subcontract To
Jamie Church Pace Analytical Kansas 9608 Loiret Blvd. Lenexa, KS 66219 Phone 314-838-7223	Pace National 12065 Lebanon Rd Mt. Juliet, TN 37122 Phone (615) 758-5858

L1856654

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers: H2SO4	Requested Analysis: Total Organic Halogens	LAB USE ONLY
1	L-UMW-DUP-1	PS	4/29/2025 13:50	60473868012	Water	1	X	-01
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								

4453 8431 2917

Sample Receipt Checklist

COC Seal Present/Intact:	Y N NP	If Applicable	
COC Signed/Accurate:	Y N	VOA Zero Headspace:	Y N
Bottles arrive intact:	Y N	Pres. Correct/Check:	Y N
Correct bottles used:	Y N		
Sufficient volume sent:	Y N		
RA Screen <0.5 mR/hr:	Y N	Condition: NCF OK	

0.4+0.4=0.8 TLAS

Transfers	Released By	Date/Time	Received By	Date/Time
1			[signature] 5-8-25	0900
2				
3				

Comments

Location: 60-R28-S2

Cooler Temperature on Receipt ____°C	Custody Seal Y or N	Received on Ice Y or N	Samples Intact Y or N

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

INTER_LABORATORY WORK ORDER # 60473868
(To be completed by sending lab)

Ship To:
Pace National
12065 Lebanon Rd
Mt. Juliet, TN 37122
Phone (615) 758-5858

Sending Project No:	60473868
Receiving Project No:	
Check Box for Consolidated Invoice:	☐
Date Prepared:	04/30/25
REQUESTED COMPLETION DATE:	**5/19/2025**

Sending Region	IR60-Kansas	Sending Project Mgr.	Jamie Church
Receiving Region	IR850-Pace National	External Client	Rocksmith Geoengineering, LLC.
State of Sample Origin	MO	QC Deliverable	STD REPORT

All questions should be addressed to sending project manager.

Requested Reportable Units _____ Report Wet or Dry Weight? Dry Weight ☐ IRWO Lab Need to run? Cert. Needed N

WORK REQUESTED

Method Description	Container Type	Quantity of containers	Preservative	Quantity of Samples	Acode	Acode Desc
Total Organic Halogens	AG3S	1	H2SO4	1	SI-21WET	SUB PASI WET

Special Requirements: Report D, QC Limits, MDLs (D),Golder Ameren (1010)

FOR ANALYTICAL WORK COMPLETED THIS SECTION ALSO

Return Samples to Sending Region: ☐ Yes ☒ No

DISPOSITION of FORM

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

Memorandum

October 30, 2025

To:	Project File Rocksmith Geoengineering, LLC	**Project Number:**	23007-25
CC:	Mark Haddock, Jeffrey Ingram		
From:	Valerie Hurt	**Email:**	Valerie.Hurt@Rocksmithgeo.com
RE:	**Data Validation Summary, Labadie Energy Center – LCPA – Data Package 60473868**		

The following is a summary of instances where quality control criteria in the functional guidelines were not met and data qualification was required:

- When a compound was detected in a sample result between the Method Detection Limit (MDL) and Practical Quantification Limit (PQL), the results were recorded at the detection value and qualified as estimates (J).
- When a duplicate criterion was not met, the associated sample result was qualified as an estimate (J for detects, UJ for non-detects).
- When a matrix spike/matrix spike duplicate (MS/MSD) criterion was not met, the associated sample result was qualified as an estimate (J, J+ for estimates based high, and J- for estimates based low). When the associated sample result was a non-detect, and matrix spike recovery was below 10%, the result was rejected (R).

QA LEVEL II - INORGANIC DATA EVALUATION CHECKLIST

Company Name: Rocksmith Geoengineering
Project Manager: J. Ingram
Project Name: Ameren LCPA
Project Number: 23007-25
Reviewer: V. Hurt
Validation Date: 10/30/2025

Laboratory: Pace Analytical
SDG #: 60473868
Analytical Method (type and no.): EPA 200.7/200.8/7470 (Total Metals); SM 2320B (Alkalinity); SM 2540C (TDS); EPA 300.0 (Anions);
Matrix: ☐ Air ☐ Soil/Sed. ■ Water ☐ Waste ☐ EPA 903.1/904.0 (Radium 226+228)
Sample Names L-UMW-1D, L-UMW-4D, L-UMW-5D, L-UMW-6D, L-BMW-1D, L-BMW-2D, L-UMW-MS-1, L-UMW-MSD-1, L-UMW-3D, L-UMW-7D
L-UMW-9D, L-UMW-DUP-1, , L-UMW-FB-1, L-UMW-FB-2, L-UMW-2D, L-UMW-8D, L-UMW-DUP-2

NOTE: Please provide calculation in Comment areas or on the back (if on the back please indicate in comment areas).

Field Information	YES	NO	NA	COMMENTS
a) Sampling dates noted?	x			4/24/2025-4/30/2025
b) Sampling team indicated?	x			VAH/GTM
c) Sample location noted?	x			
d) Sample depth indicated (Soils)?			x	
e) Sample type indicated (grab/composite)?	x			Grab
f) Field QC noted?	x			See Notes
g) Field parameters collected (note types)?	x			pH, Spec Cond, Turb, Temp, DO, ORP
h) Field Calibration within control limits?	x			
i) Notations of unacceptable field conditions/performances from field logs or field notes?		x		
j) Does the laboratory narrative indicate deficiencies?			x	No lab narrative.

Note Deficiencies:

Chain-of-Custody (COC)	YES	NO	NA	COMMENTS
a) Was the COC properly completed?	x			
b) Was the COC signed by both field and laboratory personnel?	x			
c) Were samples received in good condition?	x			

General (reference QAPP or Method)	YES	NO	NA	COMMENTS
a) Were hold times met for sample pretreatment?	x			
b) Were hold times met for sample analysis?	x			
c) Were the correct preservatives used?	x			
d) Was the correct method used?	x			
e) Were appropriate reporting limits achieved?	x			
f) Were any sample dilutions noted?	x			See Notes
g) Were any matrix problems noted?		x		

QA LEVEL II - INORGANIC DATA EVALUATION CHECKLIST

Blanks	YES	NO	NA	COMMENTS
a) Were analytes detected in the method blank(s)?	x			See Notes
b) Were analytes detected in the field blank(s)?	x			See Notes
c) Were analytes detected in the equipment blank(s)?			x	
d) Were analytes detected in the trip blank(s)?			x	

Laboratory Control Sample (LCS)	YES	NO	NA	COMMENTS
a) Was a LCS analyzed once per SDG?	x			
b) Were the proper analytes included in the LCS?	x			
c) Was the LCS accuracy criteria met?	x			

Duplicates	YES	NO	NA	COMMENTS
a) Were field duplicates collected (note original and duplicate sample names)?	x			See Notes
b) Were field dup. precision criteria met (note RPD)?		x		See Notes
c) Were lab duplicates analyzed (note original and duplicate samples)?	x			
d) Were lab dup. precision criteria met (note RPD)?		x		

Blind Standards	YES	NO	NA	COMMENTS
a) Was a blind standard used (indicate name, analytes included and concentrations)?			x	
b) Was the %D within control limits?			x	

Matrix Spike/Matrix Spike Duplicate (MS/MSD)	YES	NO	NA	COMMENTS
a) Was MS accuracy criteria met?		x		See Notes
Recovery could not be calculated since sample contained high concentration of analyte?			x	
b) Was MSD accuracy criteria met?		x		See Notes
Recovery could not be calculated since sample contained high concentration of analyte?			x	
c) Were MS/MSD precision criteria met?	x			

Comments/Notes:

General:

Ferrous iron samples were all analyzed outside of hold time. Results qualified as estimates.

Chloride and/or sulfate were diluted in several samples; no qualification necessary.

QA LEVEL IV - INORGANIC DATA EVALUATION CHECKLIST

Comments/Notes:

Method Blank:

3700770: Calcium (34.5J), iron (20.1J), manganese (1.0J), associated with samples -016, -017,-018. All samples are > RL and 10x blank, no qualification necessary.

3711067: Chloride (0.59J), associated with sample -009. Result > RL and 10x blank, no qualification necessary.

3623078: Radium-226 (0.626), associated with samples, -001, -002, -003, -004, -005, -006, -007, -008, -009, -010, -011, -012, -013, -014. Sample -003, -005 > RL and < 10x blank, results qualified as estimates. All other sample results are non-detect, no qualification necessary.

Field blank:

Iron detected (11.3 ug/L). Result > reporting limit & < 10x method blank. Result qualified as estimate.

TDS (9.0 mg/L), result < reporting limit. Result qualified as non detect.

Field Duplicate:

L-UMW-FB-1 @ L-UMW-3D: Chloride (0.58J), result > RL and 10x blank, no qualification necessary.

L-UMW-FB-2 @ L-UMW-9D: Chromium (0.32J), result < RL, report at reporting limit and qualify as non-detect (U). Chloride (0.58J), result > RL and 10x blank, no qualification necessary. Sulfide (0.056), result > RL and < 10x blank, result qualified estimate.

Duplicates:

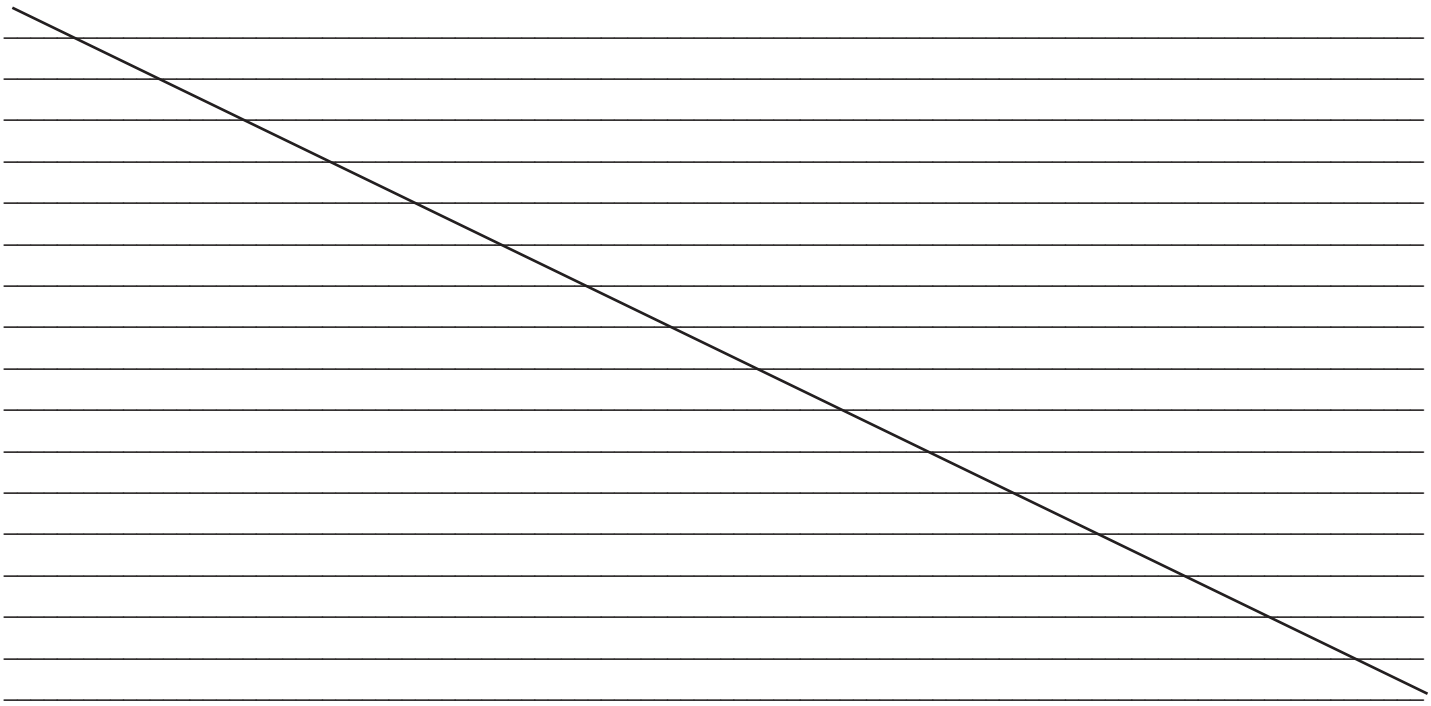
L-UMW-DUP-1 @ L-UMW-7D: Mercury detected in parent sample and non-detect in field duplicate. Results qualified as estimates. Field duplicate RPD exceeds control limit (20%) for sulfide (25.8%), results qualified as estimates.

L-UMW-DUP-2 @ L-UMW-2D: Field duplicate RPD exceeds control limit (20%) for chloride (20%), results qualified as estimates.

MS/MSD:

3698973/3698974: MSD recovery low for calcium, MS and RPD within control limits, no qualification necessary.

3700775: MS recovery low for calcium, associated with unrelated sample.



QA LEVEL IV - INORGANIC DATA EVALUATION CHECKLIST

Data Qualification:

Sample Name	Constituent(s)	Result	Qualifier	Reason
L-UMW-1D	Ferrous Iron	28.8	J	Analyzed outside of hold time
L-UMW-4D	"	0.35	J	"
L-UMW-5D	"	0.10	J	"
L-UMW-6D	"	1.3	J	"
L-BMW-1D	"	13.7	J	"
L-BMW-2D	"	8.5	U	"
L-UMW-3D	"	0.25	J	"
L-UMW-7D	"	24.9	J	"
L-UMW-9D	"	32.4	J	"
L-UMW-DUP-1	"	25.4	J	"
L-UMW-FB-1	"	0.041	J	"
L-UMW-FB-2	"	0.041	J	"
L-UMW-2D	"	5.8	J	"
L-UMW-8D	"	4.2	J	"
L-UMW-DUP-2	"	5.8	J	"
L-UMW-5D	Radium-226	0.660	J	Detected in method blank, result > RL and < 10x blank
L-BMW-1D	"	1.39	J	"
L-UMW-7D	Mercury	0.12	UJ	Detected in parent sample, non-detect in field dup
L-UMW-DUP-1	"	0.096	J	"
L-UMW-7D	Sulfide	0.018	J	Field dup RPD exceeds control limit
L-UMW-DUP-1	"	0.026	J	"
L-UMW-2D	Chloride	29.4	J	"
L-UMW-DUP-2	"	21.3	J	"
L-UMW-9D	Sulfide	0.13	J	Detected in FB, result > RL and < 10x blank

Signature: _____ Date: 10/30/2025

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

October 30, 2025

Mark Haddock
Rocksmith Geoengineering, LLC.
2320 Creve Coeur Mill Road
Maryland Heights, MO 63043

RE: Project: AMEREN LCPA-CA
Pace Project No.: 60473874

Dear Mark Haddock:

Enclosed are the analytical results for sample(s) received by the laboratory between April 26, 2025 and May 02, 2025. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Kansas City
- Pace Analytical Services - Greensburg

(Greensburg, PA) - Revision #1 - This report replaces the May 22nd 2025, report. This project was revised on July 10th, 2025, to remove an IRWO lab SCUR comment.

REV-1: Report revised to remove comment added by RAD lab regarding sampler's name that was reported in error.

REV-2, Report revised to remove parameters not required under the CCR Rule.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jamie Church
jamie.church@pacelabs.com
314-838-7223
Project Manager

Enclosures

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

cc: Jeffrey Ingram, Rocksmith Geoengineering, LLC.
Lisa Meyer, Ameren
Grant Morey, Rocksmith Geoengineering, LLC.
Austin Nieman, Ameren

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

CERTIFICATIONS

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
ANABISO/IEC 17025:2017 Rad Cert#: L24170
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 2950
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA010
Louisiana DEQ/TNI Certification #: 04086
Maine Certification #: 2023021
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991
Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572023-03
New Hampshire/TNI Certification #: 297622
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-015
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: TN02867
Texas/TNI Certification #: T104704188-22-18
Utah/TNI Certification #: PA014572223-14
USDA Soil Permit #: 525-23-67-77263
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad

Pace Analytical Services Kansas

9608 Loiret Boulevard, Lenexa, KS 66219
EPA Lab Code: KS00021
Arkansas Certification #: 88-00679
Colorado Division of Oil and Public Safety
Illinois Certification #: 200030
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Oklahoma Certification #: 9205
Texas Certification #: T104704407
Utah Certification #: KS0002125-15
UDSA_CA : #KS-SC-DOM-25-01

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

SAMPLE SUMMARY

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60473874004	**L-MW-33(D)**	Water	04/24/25 15:25	04/26/25 06:47
60473874005	**L-TP-1D**	Water	04/25/25 09:50	04/26/25 06:47
60473874006	**L-TP-3M**	Water	04/24/25 12:45	04/26/25 06:47
60473874007	**L-TP-3D**	Water	04/24/25 13:50	04/26/25 06:47
60473874008	**L-TP-4D**	Water	04/24/25 10:45	04/26/25 06:47
60473874009	**L-CA-DUP-1**	Water	04/24/25 08:00	04/26/25 06:47
60473874010	**L-MS-1**	Water	04/25/25 09:50	04/26/25 06:47
60473874011	**L-MSD-1**	Water	04/25/25 09:50	04/26/25 06:47
60473874012	**L-AMW-8**	Water	04/28/25 14:10	04/30/25 07:30
60473874015	**L-MW-24**	Water	04/28/25 15:40	04/30/25 07:30
60473874016	**L-MW-34(D)**	Water	04/28/25 12:10	04/30/25 07:30
60473874017	**L-MW-35(D)**	Water	04/28/25 13:50	04/30/25 07:30
60473874018	**L-AM-1S**	Water	04/29/25 10:45	04/30/25 07:30
60473874019	**L-CA-DUP-2**	Water	04/28/25 00:00	04/30/25 07:30
60473874020	**L-CA-DUP-3**	Water	04/28/25 00:00	04/30/25 07:30
60473874021	**L-CA-FB-1**	Water	04/29/25 09:10	04/30/25 07:30
60473874022	**L-CA-FB-2**	Water	04/29/25 09:55	04/30/25 07:30
60473874023	**L-MS-2**	Water	04/28/25 13:50	04/30/25 07:30
60473874024	**L-MSD-2**	Water	04/28/25 13:50	04/30/25 07:30
60473874025	**L-AM-1D**	Water	04/29/25 09:25	04/30/25 07:30
60473874029	**L-S-1**	Water	04/30/25 11:10	05/02/25 07:00
60473874030	**L-TP-2M**	Water	04/30/25 10:30	05/02/25 07:00
60473874031	**L-TP-2D**	Water	04/30/25 11:19	05/02/25 07:00
60473874032	**L-CA-FB-3**	Water	04/30/25 11:15	05/02/25 07:00
60473874028	**L-MW-26**	Water	04/30/25 12:22	05/02/25 07:00
60473874013	**L-LMW-1S**	Water	04/29/25 13:47	04/30/25 07:30
60473874003	**L-LMW-2S**	Water	04/25/25 12:05	04/26/25 06:47
60473874014	**L-LMW-4S**	Water	04/28/25 13:30	04/30/25 07:30
60473874026	**L-LMW-7S**	Water	04/30/25 16:19	05/02/25 07:00
60473874027	**L-LMW-8S**	Water	04/30/25 14:20	05/02/25 07:00
60473874001	**L-BMW-1S**	Water	04/24/25 11:50	04/26/25 06:47
60473874002	**L-BMW-2S**	Water	04/24/25 14:15	04/26/25 06:47

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

SAMPLE ANALYTE COUNT

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60473874004	**L-MW-33(D)**	EPA 200.7	ARMN	13	PASI-K
		EPA 200.8	JGP	6	PASI-K
		EPA 7470	MNG	1	PASI-K
		EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		SM 2320B	EFM	1	PASI-K
		SM 2540C	CAR	1	PASI-K
		SM 3500-Fe B#4	DLJ	1	PASI-K
		SM 3500-Fe B#4	DLJ	1	PASI-K
		SM 4500-S-2 D	DLJ	1	PASI-K
		EPA 300.0	AAA	3	PASI-K
60473874005	**L-TP-1D**	EPA 200.7	ARMN	13	PASI-K
		EPA 200.8	JGP	6	PASI-K
		EPA 7470	MNG	1	PASI-K
		EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		SM 2320B	EFM	1	PASI-K
		SM 2540C	CAR	1	PASI-K
		SM 3500-Fe B#4	DLJ	1	PASI-K
		SM 3500-Fe B#4	DLJ	1	PASI-K
		SM 4500-S-2 D	DLJ	1	PASI-K
		EPA 300.0	AAA	3	PASI-K
60473874006	**L-TP-3M**	EPA 200.7	ARMN	13	PASI-K
		EPA 200.8	JGP	6	PASI-K
		EPA 7470	MNG	1	PASI-K
		EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		SM 2320B	EFM	1	PASI-K
		SM 2540C	CAR	1	PASI-K
		SM 3500-Fe B#4	DLJ	1	PASI-K
		SM 3500-Fe B#4	DLJ	1	PASI-K
		SM 4500-S-2 D	DLJ	1	PASI-K
		EPA 300.0	AAA	3	PASI-K
60473874007	**L-TP-3D**	EPA 200.7	ARMN	13	PASI-K
		EPA 200.8	JGP	6	PASI-K
		EPA 7470	MNG	1	PASI-K
		EPA 903.1	CLM	1	PASI-PA

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

SAMPLE ANALYTE COUNT

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 904.0	VAL	1	PASI-PA
		SM 2320B	EFM	1	PASI-K
		SM 2540C	CAR	1	PASI-K
		SM 3500-Fe B#4	DLJ	1	PASI-K
		SM 3500-Fe B#4	DLJ	1	PASI-K
		SM 4500-S-2 D	DLJ	1	PASI-K
		EPA 300.0	AAA	3	PASI-K
60473874008	**L-TP-4D**	EPA 200.7	ARMN	13	PASI-K
		EPA 200.8	JGP	6	PASI-K
		EPA 7470	MNG	1	PASI-K
		EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		SM 2320B	EFM	1	PASI-K
		SM 2540C	CAR	1	PASI-K
		SM 3500-Fe B#4	DLJ	1	PASI-K
		SM 3500-Fe B#4	DLJ	1	PASI-K
		SM 4500-S-2 D	DLJ	1	PASI-K
		EPA 300.0	AAA	3	PASI-K
60473874009	**L-CA-DUP-1**	EPA 200.7	ARMN	13	PASI-K
		EPA 200.8	JGP	6	PASI-K
		EPA 7470	MNG	1	PASI-K
		EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		SM 2320B	EFM	1	PASI-K
		SM 2540C	CAR	1	PASI-K
		SM 3500-Fe B#4	DLJ	1	PASI-K
		SM 3500-Fe B#4	DLJ	1	PASI-K
		SM 4500-S-2 D	DLJ	1	PASI-K
		EPA 300.0	AAA	3	PASI-K
60473874010	**L-MS-1**	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
60473874011	**L-MSD-1**	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
60473874012	**L-AMW-8**	EPA 200.7	ARMN	13	PASI-K
		EPA 200.8	MLD	6	PASI-K
		EPA 7470	MNG	1	PASI-K
		EPA 903.1	CLM	1	PASI-PA

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

SAMPLE ANALYTE COUNT

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 904.0	VAL	1	PASI-PA
		SM 2320B	EFM	1	PASI-K
		SM 2540C	CAR	1	PASI-K
		SM 3500-Fe B#4	DLJ	1	PASI-K
		SM 3500-Fe B#4	DLJ	1	PASI-K
		SM 4500-S-2 D	DLJ	1	PASI-K
		EPA 300.0	AAA	3	PASI-K
60473874015	**L-MW-24**	EPA 200.7	ARMN	13	PASI-K
		EPA 200.8	MLD	6	PASI-K
		EPA 7470	MNG	1	PASI-K
		EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		SM 2320B	EFM	1	PASI-K
		SM 2540C	CAR	1	PASI-K
		SM 3500-Fe B#4	DLJ	1	PASI-K
		SM 3500-Fe B#4	DLJ	1	PASI-K
		SM 4500-S-2 D	DLJ	1	PASI-K
		EPA 300.0	AAA	3	PASI-K
60473874016	**L-MW-34(D)**	EPA 200.7	ARMN	13	PASI-K
		EPA 200.8	MLD	6	PASI-K
		EPA 7470	MNG	1	PASI-K
		EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		SM 2320B	EFM	1	PASI-K
		SM 2540C	CAR	1	PASI-K
		SM 3500-Fe B#4	DLJ	1	PASI-K
		SM 3500-Fe B#4	DLJ	1	PASI-K
		SM 4500-S-2 D	DLJ	1	PASI-K
		EPA 300.0	AAA	3	PASI-K
60473874017	**L-MW-35(D)**	EPA 200.7	ARMN	13	PASI-K
		EPA 200.8	MLD	6	PASI-K
		EPA 7470	MNG	1	PASI-K
		EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		SM 2320B	EFM	1	PASI-K
		SM 2540C	CAR	1	PASI-K
		SM 3500-Fe B#4	DLJ	1	PASI-K

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

SAMPLE ANALYTE COUNT

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 3500-Fe B#4	DLJ	1	PASI-K
		SM 4500-S-2 D	DLJ	1	PASI-K
		EPA 300.0	MLD	3	PASI-K
60473874018	**L-AM-1S**	EPA 200.7	ARMN	13	PASI-K
		EPA 200.8	MLD	6	PASI-K
		EPA 7470	MNG	1	PASI-K
		EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		SM 2320B	EFM	1	PASI-K
		SM 2540C	CAR	1	PASI-K
		SM 3500-Fe B#4	DLJ	1	PASI-K
		SM 3500-Fe B#4	DLJ	1	PASI-K
		SM 4500-S-2 D	DLJ	1	PASI-K
		EPA 300.0	MLD	3	PASI-K
60473874019	**L-CA-DUP-2**	EPA 200.7	ARMN	13	PASI-K
		EPA 200.8	MLD	6	PASI-K
		EPA 7470	MNG	1	PASI-K
		EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		SM 2320B	EFM	1	PASI-K
		SM 2540C	CAR	1	PASI-K
		SM 3500-Fe B#4	DLJ	1	PASI-K
		SM 3500-Fe B#4	DLJ	1	PASI-K
		SM 4500-S-2 D	DLJ	1	PASI-K
		EPA 300.0	AAA	3	PASI-K
60473874020	**L-CA-DUP-3**	EPA 200.7	ARMN	13	PASI-K
		EPA 200.8	MLD	6	PASI-K
		EPA 7470	MNG	1	PASI-K
		EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		SM 2320B	EFM	1	PASI-K
		SM 2540C	CAR	1	PASI-K
		SM 3500-Fe B#4	DLJ	1	PASI-K
		SM 3500-Fe B#4	DLJ	1	PASI-K
		SM 4500-S-2 D	DLJ	1	PASI-K
		EPA 300.0	AAA	3	PASI-K
60473874021	**L-CA-FB-1**	EPA 200.7	ARMN	13	PASI-K

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

SAMPLE ANALYTE COUNT

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 200.8	MLD	6	PASI-K
		EPA 7470	MNG	1	PASI-K
		EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		SM 2320B	EFM	1	PASI-K
		SM 2540C	CAR	1	PASI-K
		SM 3500-Fe B#4	DLJ	1	PASI-K
		SM 3500-Fe B#4	DLJ	1	PASI-K
		SM 4500-S-2 D	DLJ	1	PASI-K
		EPA 300.0	MLD	3	PASI-K
60473874022	**L-CA-FB-2**	EPA 200.7	ARMN	13	PASI-K
		EPA 200.8	MLD	6	PASI-K
		EPA 7470	MNG	1	PASI-K
		EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		SM 2320B	EFM	1	PASI-K
		SM 2540C	CAR	1	PASI-K
		SM 3500-Fe B#4	DLJ	1	PASI-K
		SM 3500-Fe B#4	DLJ	1	PASI-K
		SM 4500-S-2 D	DLJ	1	PASI-K
		EPA 300.0	MLD	3	PASI-K
60473874023	**L-MS-2**	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
60473874024	**L-MSD-2**	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
60473874025	**L-AM-1D**	EPA 200.7	ARMN	13	PASI-K
		EPA 200.8	MLD	6	PASI-K
		EPA 7470	MNG	1	PASI-K
		EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		SM 2320B	EFM	1	PASI-K
		SM 2540C	CAR	1	PASI-K
		SM 3500-Fe B#4	DLJ	1	PASI-K
		SM 3500-Fe B#4	DLJ	1	PASI-K
		SM 4500-S-2 D	DLJ	1	PASI-K
		EPA 300.0	MLD	3	PASI-K
60473874029	**L-S-1**	EPA 200.7	ARMN	13	PASI-K

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

SAMPLE ANALYTE COUNT

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 200.8	MLD	6	PASI-K
		EPA 7470	MNG	1	PASI-K
		EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		SM 2320B	EFM	1	PASI-K
		SM 2540C	CAR	1	PASI-K
		SM 3500-Fe B#4	DLJ	1	PASI-K
		SM 3500-Fe B#4	DLJ	1	PASI-K
		SM 4500-S-2 D	DLJ	1	PASI-K
		EPA 300.0	AAA	3	PASI-K
60473874030	**L-TP-2M**	EPA 200.7	ARMN	13	PASI-K
		EPA 200.8	MLD	6	PASI-K
		EPA 7470	MNG	1	PASI-K
		EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		SM 2320B	EFM	1	PASI-K
		SM 2540C	CAR	1	PASI-K
		SM 3500-Fe B#4	DLJ	1	PASI-K
		SM 3500-Fe B#4	DLJ	1	PASI-K
		SM 4500-S-2 D	DLJ	1	PASI-K
		EPA 300.0	AAA	3	PASI-K
60473874031	**L-TP-2D**	EPA 200.7	ARMN	13	PASI-K
		EPA 200.8	MLD	6	PASI-K
		EPA 7470	MNG	1	PASI-K
		EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		SM 2320B	EFM	1	PASI-K
		SM 2540C	CAR	1	PASI-K
		SM 3500-Fe B#4	DLJ	1	PASI-K
		SM 3500-Fe B#4	DLJ	1	PASI-K
		SM 4500-S-2 D	DLJ	1	PASI-K
		EPA 300.0	AAA	3	PASI-K
60473874032	**L-CA-FB-3**	EPA 200.7	ARMN	13	PASI-K
		EPA 200.8	MLD	6	PASI-K
		EPA 7470	MNG	1	PASI-K
		EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

SAMPLE ANALYTE COUNT

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 2320B	EFM	1	PASI-K
		SM 2540C	CAR	1	PASI-K
		SM 3500-Fe B#4	DLJ	1	PASI-K
		SM 3500-Fe B#4	DLJ	1	PASI-K
		SM 4500-S-2 D	DLJ	1	PASI-K
		EPA 300.0	AAA	3	PASI-K
60473874028	**L-MW-26**	EPA 200.7	ARMN	13	PASI-K
		EPA 200.8	MLD	6	PASI-K
		EPA 7470	MNG	1	PASI-K
		EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		SM 2320B	EFM	1	PASI-K
		SM 2540C	CAR	1	PASI-K
		SM 3500-Fe B#4	DLJ	1	PASI-K
		SM 3500-Fe B#4	DLJ	1	PASI-K
		SM 4500-S-2 D	DLJ	1	PASI-K
		EPA 300.0	MLD	3	PASI-K
60473874013	**L-LMW-1S**	EPA 200.7	ARMN	13	PASI-K
		EPA 200.8	MLD	6	PASI-K
		EPA 7470	MNG	1	PASI-K
		EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		SM 2320B	EFM	1	PASI-K
		SM 2540C	CAR	1	PASI-K
		SM 3500-Fe B#4	DLJ	1	PASI-K
		SM 3500-Fe B#4	DLJ	1	PASI-K
		SM 4500-S-2 D	DLJ	1	PASI-K
		EPA 300.0	MLD	3	PASI-K
60473874003	**L-LMW-2S**	EPA 200.7	ARMN	13	PASI-K
		EPA 200.8	JGP	6	PASI-K
		EPA 7470	MNG	1	PASI-K
		EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		SM 2320B	EFM	1	PASI-K
		SM 2540C	CAR	1	PASI-K
		SM 3500-Fe B#4	DLJ	1	PASI-K
		SM 3500-Fe B#4	DLJ	1	PASI-K

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

SAMPLE ANALYTE COUNT

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 4500-S-2 D	DLJ	1	PASI-K
		EPA 300.0	AAA	3	PASI-K
60473874014	**L-LMW-4S**	EPA 200.7	ARMN	13	PASI-K
		EPA 200.8	MLD	6	PASI-K
		EPA 7470	MNG	1	PASI-K
		EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		SM 2320B	EFM	1	PASI-K
		SM 2540C	CAR	1	PASI-K
		SM 3500-Fe B#4	DLJ	1	PASI-K
		SM 3500-Fe B#4	DLJ	1	PASI-K
		SM 4500-S-2 D	DLJ	1	PASI-K
		EPA 300.0	AAA	3	PASI-K
60473874026	**L-LMW-7S**	EPA 200.7	ARMN	13	PASI-K
		EPA 200.8	MLD	6	PASI-K
		EPA 7470	MNG	1	PASI-K
		EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		SM 2320B	EFM	1	PASI-K
		SM 2540C	CAR	1	PASI-K
		SM 3500-Fe B#4	DLJ	1	PASI-K
		SM 3500-Fe B#4	DLJ	1	PASI-K
		SM 4500-S-2 D	DLJ	1	PASI-K
		EPA 300.0	MLD	3	PASI-K
60473874027	**L-LMW-8S**	EPA 200.7	ARMN	13	PASI-K
		EPA 200.8	MLD	6	PASI-K
		EPA 7470	MNG	1	PASI-K
		EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		SM 2320B	EFM	1	PASI-K
		SM 2540C	CAR	1	PASI-K
		SM 3500-Fe B#4	DLJ	1	PASI-K
		SM 3500-Fe B#4	DLJ	1	PASI-K
		SM 4500-S-2 D	DLJ	1	PASI-K
		EPA 300.0	MLD	3	PASI-K
60473874001	**L-BMW-1S**	EPA 200.7	ARMN	13	PASI-K
		EPA 200.8	JGP	6	PASI-K

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

SAMPLE ANALYTE COUNT

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 7470	MNG	1	PASI-K
		EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		SM 2320B	EFM	1	PASI-K
		SM 2540C	CAR	1	PASI-K
		SM 3500-Fe B#4	DLJ	1	PASI-K
		SM 3500-Fe B#4	DLJ	1	PASI-K
		SM 4500-S-2 D	DLJ	1	PASI-K
		EPA 300.0	AAA	3	PASI-K
60473874002	**L-BMW-2S**	EPA 200.7	ARMN	13	PASI-K
		EPA 200.8	JGP	6	PASI-K
		EPA 7470	MNG	1	PASI-K
		EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		SM 2320B	EFM	1	PASI-K
		SM 2540C	CAR	1	PASI-K
		SM 3500-Fe B#4	DLJ	1	PASI-K
		SM 3500-Fe B#4	DLJ	1	PASI-K
		SM 4500-S-2 D	DLJ	1	PASI-K
		EPA 300.0	AAA	3	PASI-K

PASI-K = Pace Analytical Services - Kansas City
PASI-PA = Pace Analytical Services - Greensburg

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

Sample: L-MW-33(D) **Lab ID: 60473874004** Collected: 04/24/25 15:25 Received: 04/26/25 06:47 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City								
Barium	**94.0**	ug/L	5.0	0.64	1	04/29/25 12:40	05/23/25 12:34	7440-39-3	
Beryllium	**<0.12**	ug/L	1.0	0.12	1	04/29/25 12:40	05/23/25 12:34	7440-41-7	
Boron	**8500**	ug/L	100	6.4	1	04/29/25 12:40	05/23/25 12:34	7440-42-8	
Calcium	**115000**	ug/L	200	26.9	1	04/29/25 12:40	05/23/25 12:34	7440-70-2	
Cobalt	**<1.2**	ug/L	5.0	1.2	1	04/29/25 12:40	05/23/25 12:34	7440-48-4	
Iron	**5720**	ug/L	50.0	9.1	1	04/29/25 12:40	05/23/25 12:34	7439-89-6	
Lead	**<3.8**	ug/L	10.0	3.8	1	04/29/25 12:40	05/23/25 12:34	7439-92-1	
Lithium	**32.5**	ug/L	10.0	3.7	1	04/29/25 12:40	05/23/25 12:34	7439-93-2	
Magnesium	**23600**	ug/L	50.0	20.1	1	04/29/25 12:40	05/23/25 12:34	7439-95-4	
Manganese	**325**	ug/L	5.0	0.39	1	04/29/25 12:40	05/23/25 12:34	7439-96-5	
Molybdenum	**634**	ug/L	20.0	1.0	1	04/29/25 12:40	05/23/25 12:34	7439-98-7	
Potassium	**7070**	ug/L	500	69.7	1	04/29/25 12:40	05/23/25 12:34	7440-09-7	
Sodium	**91100**	ug/L	500	115	1	04/29/25 12:40	05/23/25 12:34	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Antimony	**<0.12**	ug/L	1.0	0.12	1	04/29/25 12:40	05/16/25 14:11	7440-36-0	
Arsenic	**1.3**	ug/L	1.0	0.13	1	04/29/25 12:40	05/16/25 14:11	7440-38-2	
Cadmium	**0.25J**	ug/L	0.50	0.050	1	04/29/25 12:40	05/16/25 14:11	7440-43-9	
Chromium	**0.45J**	ug/L	1.0	0.30	1	04/29/25 12:40	05/16/25 14:11	7440-47-3	
Selenium	**<0.18**	ug/L	1.0	0.18	1	04/29/25 12:40	05/16/25 14:11	7782-49-2	
Thallium	**<0.14**	ug/L	1.0	0.14	1	04/29/25 12:40	05/16/25 14:11	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Kansas City								
Mercury	**<0.096**	ug/L	0.20	0.096	1	05/12/25 15:00	05/13/25 11:39	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Kansas City								
Alkalinity, Total as CaCO3	**103**	mg/L	20.0	10.5	1		05/08/25 14:22		
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City								
Total Dissolved Solids	**863**	mg/L	13.3	13.3	1		05/01/25 13:34		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City								
Iron, Ferric	**<0.041**	mg/L	0.050	0.041	1		05/28/25 09:15	20074-52-6	
Iron, Ferrous	Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City								
Iron, Ferrous	**7.8**	mg/L	0.40	0.082	1		04/29/25 14:30	15438-31-0	H6

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

Sample: L-MW-33(D) **Lab ID: 60473874004** Collected: 04/24/25 15:25 Received: 04/26/25 06:47 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D Pace Analytical Services - Kansas City								
Sulfide, Total	**0.018J**	mg/L	0.050	0.016	1		04/30/25 13:50	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City								
Chloride	**28.3**	mg/L	20.0	10.5	20		05/15/25 19:25	16887-00-6	
Fluoride	**<0.12**	mg/L	0.20	0.12	1		05/15/25 18:43	16984-48-8	
Sulfate	**489**	mg/L	50.0	27.5	50		05/17/25 01:01	14808-79-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

Sample: L-TP-1D **Lab ID: 60473874005** Collected: 04/25/25 09:50 Received: 04/26/25 06:47 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City								
Barium	**1410**	ug/L	5.0	0.64	1	04/29/25 12:40	05/23/25 12:36	7440-39-3	
Beryllium	**<0.12**	ug/L	1.0	0.12	1	04/29/25 12:40	05/23/25 12:36	7440-41-7	
Boron	**64.2J**	ug/L	100	6.4	1	04/29/25 12:40	05/23/25 12:36	7440-42-8	
Calcium	**136000**	ug/L	200	26.9	1	04/29/25 12:40	05/23/25 12:36	7440-70-2	M1,P6
Cobalt	**<1.2**	ug/L	5.0	1.2	1	04/29/25 12:40	05/23/25 12:36	7440-48-4	
Iron	**8510**	ug/L	50.0	9.1	1	04/29/25 12:40	05/23/25 12:36	7439-89-6	
Lead	**<3.8**	ug/L	10.0	3.8	1	04/29/25 12:40	05/23/25 12:36	7439-92-1	
Lithium	**24.9**	ug/L	10.0	3.7	1	04/29/25 12:40	05/23/25 12:36	7439-93-2	
Magnesium	**33600**	ug/L	50.0	20.1	1	04/29/25 12:40	05/23/25 12:36	7439-95-4	
Manganese	**264**	ug/L	5.0	0.39	1	04/29/25 12:40	05/23/25 12:36	7439-96-5	
Molybdenum	**1.5J**	ug/L	20.0	1.0	1	04/29/25 12:40	05/23/25 12:36	7439-98-7	
Potassium	**4390**	ug/L	500	69.7	1	04/29/25 12:40	05/23/25 12:36	7440-09-7	
Sodium	**10400**	ug/L	500	115	1	04/29/25 12:40	05/23/25 12:36	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Antimony	**<0.12**	ug/L	1.0	0.12	1	04/29/25 12:40	05/16/25 13:58	7440-36-0	
Arsenic	**1.1**	ug/L	1.0	0.13	1	04/29/25 12:40	05/16/25 13:58	7440-38-2	
Cadmium	**<0.050**	ug/L	0.50	0.050	1	04/29/25 12:40	05/16/25 13:58	7440-43-9	
Chromium	**0.65J**	ug/L	1.0	0.30	1	04/29/25 12:40	05/16/25 13:58	7440-47-3	
Selenium	**<0.18**	ug/L	1.0	0.18	1	04/29/25 12:40	05/16/25 13:58	7782-49-2	
Thallium	**<0.14**	ug/L	1.0	0.14	1	04/29/25 12:40	05/16/25 13:58	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Kansas City								
Mercury	**<0.096**	ug/L	0.20	0.096	1	05/12/25 15:00	05/13/25 12:32	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Kansas City								
Alkalinity, Total as CaCO3	**467**	mg/L	20.0	10.5	1		05/09/25 13:14		
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City								
Total Dissolved Solids	**529**	mg/L	10.0	10.0	1		05/01/25 13:37		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City								
Iron, Ferric	**<0.041**	mg/L	0.050	0.041	1		05/28/25 09:15	20074-52-6	
Iron, Ferrous	Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City								
Iron, Ferrous	**12.0**	mg/L	0.50	0.10	1		04/29/25 14:30	15438-31-0	H6

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

Sample: L-TP-1D **Lab ID: 60473874005** Collected: 04/25/25 09:50 Received: 04/26/25 06:47 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D Pace Analytical Services - Kansas City								
Sulfide, Total	**0.016J**	mg/L	0.050	0.016	1		04/30/25 13:50	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City								
Chloride	**3.8**	mg/L	1.0	0.53	1		05/15/25 14:48	16887-00-6	
Fluoride	**<0.12**	mg/L	0.20	0.12	1		05/15/25 14:48	16984-48-8	
Sulfate	**20.7**	mg/L	2.0	1.1	2		05/15/25 15:02	14808-79-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

Sample: L-TP-3M **Lab ID: 60473874006** Collected: 04/24/25 12:45 Received: 04/26/25 06:47 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City								
Barium	**212**	ug/L	5.0	0.64	1	04/29/25 12:40	05/23/25 12:41	7440-39-3	
Beryllium	**<0.12**	ug/L	1.0	0.12	1	04/29/25 12:40	05/23/25 12:41	7440-41-7	
Boron	**5730**	ug/L	100	6.4	1	04/29/25 12:40	05/23/25 12:41	7440-42-8	
Calcium	**94600**	ug/L	200	26.9	1	04/29/25 12:40	05/23/25 12:41	7440-70-2	
Cobalt	**<1.2**	ug/L	5.0	1.2	1	04/29/25 12:40	05/23/25 12:41	7440-48-4	
Iron	**6740**	ug/L	50.0	9.1	1	04/29/25 12:40	05/23/25 12:41	7439-89-6	
Lead	**<3.8**	ug/L	10.0	3.8	1	04/29/25 12:40	05/23/25 12:41	7439-92-1	
Lithium	**27.2**	ug/L	10.0	3.7	1	04/29/25 12:40	05/23/25 12:41	7439-93-2	
Magnesium	**19600**	ug/L	50.0	20.1	1	04/29/25 12:40	05/23/25 12:41	7439-95-4	
Manganese	**1050**	ug/L	5.0	0.39	1	04/29/25 12:40	05/23/25 12:41	7439-96-5	
Molybdenum	**297**	ug/L	20.0	1.0	1	04/29/25 12:40	05/23/25 12:41	7439-98-7	
Potassium	**5080**	ug/L	500	69.7	1	04/29/25 12:40	05/23/25 12:41	7440-09-7	
Sodium	**63000**	ug/L	500	115	1	04/29/25 12:40	05/23/25 12:41	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Antimony	**<0.12**	ug/L	1.0	0.12	1	04/29/25 12:40	05/16/25 14:14	7440-36-0	
Arsenic	**0.33J**	ug/L	1.0	0.13	1	04/29/25 12:40	05/16/25 14:14	7440-38-2	
Cadmium	**0.11J**	ug/L	0.50	0.050	1	04/29/25 12:40	05/16/25 14:14	7440-43-9	
Chromium	**0.35J**	ug/L	1.0	0.30	1	04/29/25 12:40	05/16/25 14:14	7440-47-3	
Selenium	**<0.18**	ug/L	1.0	0.18	1	04/29/25 12:40	05/16/25 14:14	7782-49-2	
Thallium	**<0.14**	ug/L	1.0	0.14	1	04/29/25 12:40	05/16/25 14:14	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Kansas City								
Mercury	**<0.096**	ug/L	0.20	0.096	1	05/12/25 15:00	05/13/25 12:39	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Kansas City								
Alkalinity, Total as CaCO3	**204**	mg/L	20.0	10.5	1		05/08/25 14:29		
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City								
Total Dissolved Solids	**629**	mg/L	10.0	10.0	1		05/01/25 13:34		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City								
Iron, Ferric	**<0.041**	mg/L	0.050	0.041	1		05/28/25 09:15	20074-52-6	
Iron, Ferrous	Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City								
Iron, Ferrous	**9.7**	mg/L	0.40	0.082	1		04/29/25 14:30	15438-31-0	H6

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

Sample: L-TP-3M **Lab ID: 60473874006** Collected: 04/24/25 12:45 Received: 04/26/25 06:47 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D Pace Analytical Services - Kansas City								
Sulfide, Total	**<0.016**	mg/L	0.050	0.016	1		04/30/25 13:50	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City								
Chloride	**29.7**	mg/L	20.0	10.5	20		05/15/25 19:52	16887-00-6	
Fluoride	**<0.12**	mg/L	0.20	0.12	1		05/15/25 19:38	16984-48-8	
Sulfate	**243**	mg/L	20.0	11.0	20		05/15/25 19:52	14808-79-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

Sample: L-TP-3D **Lab ID: 60473874007** Collected: 04/24/25 13:50 Received: 04/26/25 06:47 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City								
Barium	**69.6**	ug/L	5.0	0.64	1	04/29/25 12:40	05/23/25 12:43	7440-39-3	
Beryllium	**<0.12**	ug/L	1.0	0.12	1	04/29/25 12:40	05/23/25 12:43	7440-41-7	
Boron	**8720**	ug/L	100	6.4	1	04/29/25 12:40	05/23/25 12:43	7440-42-8	
Calcium	**97400**	ug/L	200	26.9	1	04/29/25 12:40	05/23/25 12:43	7440-70-2	
Cobalt	**<1.2**	ug/L	5.0	1.2	1	04/29/25 12:40	05/23/25 12:43	7440-48-4	
Iron	**4330**	ug/L	50.0	9.1	1	04/29/25 12:40	05/23/25 12:43	7439-89-6	
Lead	**<3.8**	ug/L	10.0	3.8	1	04/29/25 12:40	05/23/25 12:43	7439-92-1	
Lithium	**31.1**	ug/L	10.0	3.7	1	04/29/25 12:40	05/23/25 12:43	7439-93-2	
Magnesium	**21100**	ug/L	50.0	20.1	1	04/29/25 12:40	05/23/25 12:43	7439-95-4	
Manganese	**178**	ug/L	5.0	0.39	1	04/29/25 12:40	05/23/25 12:43	7439-96-5	
Molybdenum	**401**	ug/L	20.0	1.0	1	04/29/25 12:40	05/23/25 12:43	7439-98-7	
Potassium	**6760**	ug/L	500	69.7	1	04/29/25 12:40	05/23/25 12:43	7440-09-7	
Sodium	**114000**	ug/L	500	115	1	04/29/25 12:40	05/23/25 12:43	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Antimony	**<0.12**	ug/L	1.0	0.12	1	04/29/25 12:40	05/16/25 14:20	7440-36-0	
Arsenic	**8.1**	ug/L	1.0	0.13	1	04/29/25 12:40	05/16/25 14:20	7440-38-2	
Cadmium	**0.16J**	ug/L	0.50	0.050	1	04/29/25 12:40	05/16/25 14:20	7440-43-9	
Chromium	**0.34J**	ug/L	1.0	0.30	1	04/29/25 12:40	05/16/25 14:20	7440-47-3	
Selenium	**<0.18**	ug/L	1.0	0.18	1	04/29/25 12:40	05/16/25 14:20	7782-49-2	
Thallium	**<0.14**	ug/L	1.0	0.14	1	04/29/25 12:40	05/16/25 14:20	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Kansas City								
Mercury	**<0.096**	ug/L	0.20	0.096	1	05/12/25 15:00	05/13/25 12:45	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Kansas City								
Alkalinity, Total as CaCO3	**108**	mg/L	20.0	10.5	1		05/08/25 14:48		
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City								
Total Dissolved Solids	**888**	mg/L	13.3	13.3	1		05/01/25 13:34		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City								
Iron, Ferric	**<0.041**	mg/L	0.050	0.041	1		05/28/25 09:15	20074-52-6	
Iron, Ferrous	Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City								
Iron, Ferrous	**6.3**	mg/L	0.40	0.082	1		04/29/25 14:30	15438-31-0	H6

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

Sample: L-TP-3D **Lab ID: 60473874007** Collected: 04/24/25 13:50 Received: 04/26/25 06:47 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D Pace Analytical Services - Kansas City								
Sulfide, Total	**0.028J**	mg/L	0.050	0.016	1		04/30/25 13:50	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City								
Chloride	**30.9**	mg/L	20.0	10.5	20		05/15/25 20:20	16887-00-6	
Fluoride	**<0.12**	mg/L	0.20	0.12	1		05/15/25 20:06	16984-48-8	
Sulfate	**490**	mg/L	50.0	27.5	50		05/17/25 01:13	14808-79-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

Sample: L-TP-4D **Lab ID: 60473874008** Collected: 04/24/25 10:45 Received: 04/26/25 06:47 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City								
Barium	**386**	ug/L	5.0	0.64	1	04/29/25 12:40	05/23/25 12:19	7440-39-3	
Beryllium	**<0.12**	ug/L	1.0	0.12	1	04/29/25 12:40	05/23/25 12:19	7440-41-7	
Boron	**8020**	ug/L	100	6.4	1	04/29/25 12:40	05/23/25 12:19	7440-42-8	
Calcium	**126000**	ug/L	200	26.9	1	04/29/25 12:40	05/23/25 12:19	7440-70-2	
Cobalt	**<1.2**	ug/L	5.0	1.2	1	04/29/25 12:40	05/23/25 12:19	7440-48-4	
Iron	**6130**	ug/L	50.0	9.1	1	04/29/25 12:40	05/23/25 12:19	7439-89-6	
Lead	**<3.8**	ug/L	10.0	3.8	1	04/29/25 12:40	05/23/25 12:19	7439-92-1	
Lithium	**23.5**	ug/L	10.0	3.7	1	04/29/25 12:40	05/23/25 12:19	7439-93-2	
Magnesium	**31100**	ug/L	50.0	20.1	1	04/29/25 12:40	05/23/25 12:19	7439-95-4	
Manganese	**342**	ug/L	5.0	0.39	1	04/29/25 12:40	05/23/25 12:19	7439-96-5	
Molybdenum	**6.1J**	ug/L	20.0	1.0	1	04/29/25 12:40	05/23/25 12:19	7439-98-7	
Potassium	**4860**	ug/L	500	69.7	1	04/29/25 12:40	05/23/25 12:19	7440-09-7	
Sodium	**32100**	ug/L	500	115	1	04/29/25 12:40	05/23/25 12:19	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Antimony	**0.18J**	ug/L	1.0	0.12	1	04/29/25 12:40	05/16/25 14:22	7440-36-0	
Arsenic	**7.4**	ug/L	1.0	0.13	1	04/29/25 12:40	05/16/25 14:22	7440-38-2	
Cadmium	**<0.050**	ug/L	0.50	0.050	1	04/29/25 12:40	05/16/25 14:22	7440-43-9	
Chromium	**0.47J**	ug/L	1.0	0.30	1	04/29/25 12:40	05/16/25 14:22	7440-47-3	
Selenium	**<0.18**	ug/L	1.0	0.18	1	04/29/25 12:40	05/16/25 14:22	7782-49-2	
Thallium	**<0.14**	ug/L	1.0	0.14	1	04/29/25 12:40	05/16/25 14:22	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Kansas City								
Mercury	**<0.096**	ug/L	0.20	0.096	1	05/12/25 15:00	05/13/25 12:48	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Kansas City								
Alkalinity, Total as CaCO3	**281**	mg/L	20.0	10.5	1		05/08/25 14:54		
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City								
Total Dissolved Solids	**711**	mg/L	13.3	13.3	1		05/01/25 13:34		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City								
Iron, Ferric	**<0.041**	mg/L	0.050	0.041	1		05/28/25 09:15	20074-52-6	
Iron, Ferrous	Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City								
Iron, Ferrous	**8.3**	mg/L	0.40	0.082	1		04/29/25 14:30	15438-31-0	H6

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

Sample: L-TP-4D **Lab ID: 60473874008** Collected: 04/24/25 10:45 Received: 04/26/25 06:47 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D Pace Analytical Services - Kansas City								
Sulfide, Total	**0.019J**	mg/L	0.050	0.016	1		04/30/25 13:50	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City								
Chloride	**15.9**	mg/L	1.0	0.53	1		05/15/25 20:34	16887-00-6	
Fluoride	**<0.12**	mg/L	0.20	0.12	1		05/15/25 20:34	16984-48-8	
Sulfate	**202**	mg/L	20.0	11.0	20		05/15/25 20:48	14808-79-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

Sample: L-CA-DUP-1 **Lab ID: 60473874009** Collected: 04/24/25 08:00 Received: 04/26/25 06:47 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City								
Barium	**387**	ug/L	5.0	0.64	1	04/29/25 12:40	05/23/25 12:21	7440-39-3	
Beryllium	**<0.12**	ug/L	1.0	0.12	1	04/29/25 12:40	05/23/25 12:21	7440-41-7	
Boron	**8130**	ug/L	100	6.4	1	04/29/25 12:40	05/23/25 12:21	7440-42-8	
Calcium	**127000**	ug/L	200	26.9	1	04/29/25 12:40	05/23/25 12:21	7440-70-2	
Cobalt	**<1.2**	ug/L	5.0	1.2	1	04/29/25 12:40	05/23/25 12:21	7440-48-4	
Iron	**6210**	ug/L	50.0	9.1	1	04/29/25 12:40	05/23/25 12:21	7439-89-6	
Lead	**<3.8**	ug/L	10.0	3.8	1	04/29/25 12:40	05/23/25 12:21	7439-92-1	
Lithium	**24.8**	ug/L	10.0	3.7	1	04/29/25 12:40	05/23/25 12:21	7439-93-2	
Magnesium	**31300**	ug/L	50.0	20.1	1	04/29/25 12:40	05/23/25 12:21	7439-95-4	
Manganese	**347**	ug/L	5.0	0.39	1	04/29/25 12:40	05/23/25 12:21	7439-96-5	
Molybdenum	**6.0J**	ug/L	20.0	1.0	1	04/29/25 12:40	05/23/25 12:21	7439-98-7	
Potassium	**4980**	ug/L	500	69.7	1	04/29/25 12:40	05/23/25 12:21	7440-09-7	
Sodium	**32400**	ug/L	500	115	1	04/29/25 12:40	05/23/25 12:21	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Antimony	**0.15J**	ug/L	1.0	0.12	1	04/29/25 12:40	05/16/25 14:25	7440-36-0	
Arsenic	**7.5**	ug/L	1.0	0.13	1	04/29/25 12:40	05/16/25 14:25	7440-38-2	
Cadmium	**<0.050**	ug/L	0.50	0.050	1	04/29/25 12:40	05/16/25 14:25	7440-43-9	
Chromium	**0.45J**	ug/L	1.0	0.30	1	04/29/25 12:40	05/16/25 14:25	7440-47-3	
Selenium	**<0.18**	ug/L	1.0	0.18	1	04/29/25 12:40	05/16/25 14:25	7782-49-2	
Thallium	**<0.14**	ug/L	1.0	0.14	1	04/29/25 12:40	05/16/25 14:25	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Kansas City								
Mercury	**<0.096**	ug/L	0.20	0.096	1	05/12/25 15:00	05/13/25 12:50	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Kansas City								
Alkalinity, Total as CaCO3	**282**	mg/L	20.0	10.5	1		05/08/25 15:00		
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City								
Total Dissolved Solids	**699**	mg/L	13.3	13.3	1		05/01/25 13:35		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City								
Iron, Ferric	**<0.041**	mg/L	0.050	0.041	1		05/28/25 09:15	20074-52-6	
Iron, Ferrous	Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City								
Iron, Ferrous	**8.3**	mg/L	0.40	0.082	1		04/29/25 14:30	15438-31-0	H6

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

Sample: L-CA-DUP-1 **Lab ID: 60473874009** Collected: 04/24/25 08:00 Received: 04/26/25 06:47 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D Pace Analytical Services - Kansas City								
Sulfide, Total	**0.021J**	mg/L	0.050	0.016	1		04/30/25 13:50	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City								
Chloride	**15.7**	mg/L	1.0	0.53	1		05/15/25 21:02	16887-00-6	
Fluoride	**<0.12**	mg/L	0.20	0.12	1		05/15/25 21:02	16984-48-8	
Sulfate	**206**	mg/L	20.0	11.0	20		05/15/25 21:16	14808-79-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

Sample: L-AMW-8 **Lab ID: 60473874012** Collected: 04/28/25 14:10 Received: 04/30/25 07:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City								
Barium	**121**	ug/L	5.0	0.64	1	05/01/25 13:06	05/23/25 12:10	7440-39-3	
Beryllium	**<0.12**	ug/L	1.0	0.12	1	05/01/25 13:06	05/23/25 12:10	7440-41-7	
Boron	**7000**	ug/L	100	6.4	1	05/01/25 13:06	05/23/25 12:10	7440-42-8	
Calcium	**75900**	ug/L	200	26.9	1	05/01/25 13:06	05/23/25 12:10	7440-70-2	
Cobalt	**<1.2**	ug/L	5.0	1.2	1	05/01/25 13:06	05/23/25 12:10	7440-48-4	
Iron	**1910**	ug/L	50.0	9.1	1	05/01/25 13:06	05/23/25 12:10	7439-89-6	
Lead	**<3.8**	ug/L	10.0	3.8	1	05/01/25 13:06	05/23/25 12:10	7439-92-1	
Lithium	**17.4**	ug/L	10.0	3.7	1	05/01/25 13:06	05/23/25 12:10	7439-93-2	
Magnesium	**11700**	ug/L	50.0	20.1	1	05/01/25 13:06	05/23/25 12:10	7439-95-4	
Manganese	**356**	ug/L	5.0	0.39	1	05/01/25 13:06	05/23/25 12:10	7439-96-5	
Molybdenum	**288**	ug/L	20.0	1.0	1	05/01/25 13:06	05/23/25 12:10	7439-98-7	
Potassium	**6630**	ug/L	500	69.7	1	05/01/25 13:06	05/23/25 12:10	7440-09-7	
Sodium	**76600**	ug/L	500	115	1	05/01/25 13:06	05/23/25 12:10	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Antimony	**<0.12**	ug/L	1.0	0.12	1	05/01/25 12:55	05/16/25 15:42	7440-36-0	
Arsenic	**0.34J**	ug/L	1.0	0.13	1	05/01/25 12:55	05/16/25 15:42	7440-38-2	
Cadmium	**0.11J**	ug/L	0.50	0.050	1	05/01/25 12:55	05/16/25 15:42	7440-43-9	
Chromium	**0.50J**	ug/L	1.0	0.30	1	05/01/25 12:55	05/16/25 15:42	7440-47-3	
Selenium	**<0.18**	ug/L	1.0	0.18	1	05/01/25 12:55	05/16/25 15:42	7782-49-2	
Thallium	**<0.14**	ug/L	1.0	0.14	1	05/01/25 12:55	05/16/25 15:42	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Kansas City								
Mercury	**<0.096**	ug/L	0.20	0.096	1	05/16/25 14:23	05/19/25 10:51	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Kansas City								
Alkalinity, Total as CaCO3	**111**	mg/L	20.0	10.5	1		05/12/25 14:53		
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City								
Total Dissolved Solids	**586**	mg/L	10.0	10.0	1		05/05/25 14:48		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City								
Iron, Ferric	**<0.041**	mg/L	0.050	0.041	1		05/28/25 14:32	20074-52-6	
Iron, Ferrous	Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City								
Iron, Ferrous	**2.9**	mg/L	0.20	0.041	1		05/03/25 11:00	15438-31-0	H6

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

Sample: L-AMW-8 **Lab ID: 60473874012** Collected: 04/28/25 14:10 Received: 04/30/25 07:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D Pace Analytical Services - Kansas City								
Sulfide, Total	**0.018J**	mg/L	0.050	0.016	1		05/02/25 14:32	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City								
Chloride	**28.9**	mg/L	20.0	10.5	20		05/23/25 01:03	16887-00-6	B
Fluoride	**0.25**	mg/L	0.20	0.12	1		05/23/25 00:49	16984-48-8	
Sulfate	**286**	mg/L	20.0	11.0	20		05/23/25 01:03	14808-79-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

Sample: L-MW-24 **Lab ID: 60473874015** Collected: 04/28/25 15:40 Received: 04/30/25 07:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City								
Barium	**124**	ug/L	5.0	0.64	1	05/01/25 13:06	05/23/25 12:16	7440-39-3	
Beryllium	**<0.12**	ug/L	1.0	0.12	1	05/01/25 13:06	05/23/25 12:16	7440-41-7	
Boron	**78.4J**	ug/L	100	6.4	1	05/01/25 13:06	05/23/25 12:16	7440-42-8	
Calcium	**97100**	ug/L	200	26.9	1	05/01/25 13:06	05/23/25 12:16	7440-70-2	
Cobalt	**<1.2**	ug/L	5.0	1.2	1	05/01/25 13:06	05/23/25 12:16	7440-48-4	
Iron	**62.1**	ug/L	50.0	9.1	1	05/01/25 13:06	05/23/25 12:16	7439-89-6	
Lead	**<3.8**	ug/L	10.0	3.8	1	05/01/25 13:06	05/23/25 12:16	7439-92-1	
Lithium	**13.1**	ug/L	10.0	3.7	1	05/01/25 13:06	05/23/25 12:16	7439-93-2	
Magnesium	**18700**	ug/L	50.0	20.1	1	05/01/25 13:06	05/23/25 12:16	7439-95-4	
Manganese	**2.0J**	ug/L	5.0	0.39	1	05/01/25 13:06	05/23/25 12:16	7439-96-5	
Molybdenum	**<1.0**	ug/L	20.0	1.0	1	05/01/25 13:06	05/23/25 12:16	7439-98-7	
Potassium	**3840**	ug/L	500	69.7	1	05/01/25 13:06	05/23/25 12:16	7440-09-7	
Sodium	**5450**	ug/L	500	115	1	05/01/25 13:06	05/23/25 12:16	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Antimony	**0.17J**	ug/L	1.0	0.12	1	05/01/25 12:55	05/16/25 15:53	7440-36-0	
Arsenic	**0.76J**	ug/L	1.0	0.13	1	05/01/25 12:55	05/16/25 15:53	7440-38-2	
Cadmium	**<0.050**	ug/L	0.50	0.050	1	05/01/25 12:55	05/16/25 15:53	7440-43-9	
Chromium	**0.48J**	ug/L	1.0	0.30	1	05/01/25 12:55	05/16/25 15:53	7440-47-3	
Selenium	**8.3**	ug/L	1.0	0.18	1	05/01/25 12:55	05/16/25 15:53	7782-49-2	
Thallium	**<0.14**	ug/L	1.0	0.14	1	05/01/25 12:55	05/16/25 15:53	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Kansas City								
Mercury	**<0.096**	ug/L	0.20	0.096	1	05/16/25 14:23	05/19/25 10:58	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Kansas City								
Alkalinity, Total as CaCO3	**306**	mg/L	20.0	10.5	1		05/12/25 16:46		
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City								
Total Dissolved Solids	**375**	mg/L	10.0	10.0	1		05/05/25 14:48		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City								
Iron, Ferric	**<0.041**	mg/L	0.050	0.041	1		05/28/25 14:32	20074-52-6	
Iron, Ferrous	Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City								
Iron, Ferrous	**<0.041**	mg/L	0.20	0.041	1		05/03/25 11:00	15438-31-0	H6

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

Sample: L-MW-24 **Lab ID: 60473874015** Collected: 04/28/25 15:40 Received: 04/30/25 07:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D Pace Analytical Services - Kansas City								
Sulfide, Total	**<0.016**	mg/L	0.050	0.016	1		05/02/25 14:32	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City								
Chloride	**3.1**	mg/L	1.0	0.53	1		05/23/25 01:45	16887-00-6	B
Fluoride	**0.22**	mg/L	0.20	0.12	1		05/23/25 01:45	16984-48-8	
Sulfate	**16.8**	mg/L	1.0	0.55	1		05/23/25 01:45	14808-79-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

Sample: L-MW-34(D) **Lab ID: 60473874016** Collected: 04/28/25 12:10 Received: 04/30/25 07:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City								
Barium	**102**	ug/L	5.0	0.64	1	05/01/25 13:06	05/23/25 12:17	7440-39-3	
Beryllium	**<0.12**	ug/L	1.0	0.12	1	05/01/25 13:06	05/23/25 12:17	7440-41-7	
Boron	**7610**	ug/L	100	6.4	1	05/01/25 13:06	05/23/25 12:17	7440-42-8	
Calcium	**117000**	ug/L	200	26.9	1	05/01/25 13:06	05/23/25 12:17	7440-70-2	
Cobalt	**<1.2**	ug/L	5.0	1.2	1	05/01/25 13:06	05/23/25 12:17	7440-48-4	
Iron	**7060**	ug/L	50.0	9.1	1	05/01/25 13:06	05/23/25 12:17	7439-89-6	
Lead	**<3.8**	ug/L	10.0	3.8	1	05/01/25 13:06	05/23/25 12:17	7439-92-1	
Lithium	**35.0**	ug/L	10.0	3.7	1	05/01/25 13:06	05/23/25 12:17	7439-93-2	
Magnesium	**28100**	ug/L	50.0	20.1	1	05/01/25 13:06	05/23/25 12:17	7439-95-4	
Manganese	**313**	ug/L	5.0	0.39	1	05/01/25 13:06	05/23/25 12:17	7439-96-5	
Molybdenum	**473**	ug/L	20.0	1.0	1	05/01/25 13:06	05/23/25 12:17	7439-98-7	
Potassium	**6920**	ug/L	500	69.7	1	05/01/25 13:06	05/23/25 12:17	7440-09-7	
Sodium	**59600**	ug/L	500	115	1	05/01/25 13:06	05/23/25 12:17	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Antimony	**<0.12**	ug/L	1.0	0.12	1	05/01/25 12:55	05/16/25 15:56	7440-36-0	
Arsenic	**3.7**	ug/L	1.0	0.13	1	05/01/25 12:55	05/16/25 15:56	7440-38-2	
Cadmium	**0.19J**	ug/L	0.50	0.050	1	05/01/25 12:55	05/16/25 15:56	7440-43-9	
Chromium	**0.43J**	ug/L	1.0	0.30	1	05/01/25 12:55	05/16/25 15:56	7440-47-3	
Selenium	**<0.18**	ug/L	1.0	0.18	1	05/01/25 12:55	05/16/25 15:56	7782-49-2	
Thallium	**<0.14**	ug/L	1.0	0.14	1	05/01/25 12:55	05/16/25 15:56	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Kansas City								
Mercury	**<0.096**	ug/L	0.20	0.096	1	05/16/25 14:23	05/19/25 11:00	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Kansas City								
Alkalinity, Total as CaCO3	**335**	mg/L	20.0	10.5	1		05/12/25 16:53		
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City								
Total Dissolved Solids	**700**	mg/L	13.3	13.3	1		05/05/25 14:48		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City								
Iron, Ferric	**<0.041**	mg/L	0.050	0.041	1		05/28/25 14:32	20074-52-6	
Iron, Ferrous	Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City								
Iron, Ferrous	**10.1**	mg/L	0.40	0.082	1		05/03/25 11:00	15438-31-0	H6

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

Sample: L-MW-34(D) **Lab ID: 60473874016** Collected: 04/28/25 12:10 Received: 04/30/25 07:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D Pace Analytical Services - Kansas City								
Sulfide, Total	**0.023J**	mg/L	0.050	0.016	1		05/02/25 14:32	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City								
Chloride	**14.3**	mg/L	1.0	0.53	1		05/23/25 02:12	16887-00-6	
Fluoride	**<0.12**	mg/L	0.20	0.12	1		05/23/25 02:12	16984-48-8	
Sulfate	**204**	mg/L	50.0	27.5	50		05/23/25 02:40	14808-79-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

Sample: L-MW-35(D) **Lab ID: 60473874017** Collected: 04/28/25 13:50 Received: 04/30/25 07:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City								
Barium	**78.7**	ug/L	5.0	0.64	1	05/01/25 13:06	05/23/25 10:52	7440-39-3	
Beryllium	**<0.12**	ug/L	1.0	0.12	1	05/01/25 13:06	05/23/25 10:52	7440-41-7	
Boron	**5440**	ug/L	100	6.4	1	05/01/25 13:06	05/23/25 10:52	7440-42-8	
Calcium	**132000**	ug/L	200	26.9	1	05/01/25 13:06	05/23/25 10:52	7440-70-2	M1,P6
Cobalt	**<1.2**	ug/L	5.0	1.2	1	05/01/25 13:06	05/23/25 10:52	7440-48-4	
Iron	**6680**	ug/L	50.0	9.1	1	05/01/25 13:06	05/23/25 10:52	7439-89-6	
Lead	**<3.8**	ug/L	10.0	3.8	1	05/01/25 13:06	05/23/25 10:52	7439-92-1	
Lithium	**29.3**	ug/L	10.0	3.7	1	05/01/25 13:06	05/23/25 10:52	7439-93-2	
Magnesium	**30100**	ug/L	50.0	20.1	1	05/01/25 13:06	05/23/25 10:52	7439-95-4	
Manganese	**448**	ug/L	5.0	0.39	1	05/01/25 13:06	05/23/25 10:52	7439-96-5	
Molybdenum	**266**	ug/L	20.0	1.0	1	05/01/25 13:06	05/23/25 10:52	7439-98-7	
Potassium	**5280**	ug/L	500	69.7	1	05/01/25 13:06	05/23/25 10:52	7440-09-7	
Sodium	**39100**	ug/L	500	115	1	05/01/25 13:06	05/23/25 10:52	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Antimony	**<0.12**	ug/L	1.0	0.12	1	05/02/25 07:23	05/16/25 16:07	7440-36-0	
Arsenic	**0.19J**	ug/L	1.0	0.13	1	05/02/25 07:23	05/16/25 16:07	7440-38-2	
Cadmium	**0.10J**	ug/L	0.50	0.050	1	05/02/25 07:23	05/16/25 16:07	7440-43-9	
Chromium	**0.49J**	ug/L	1.0	0.30	1	05/02/25 07:23	05/16/25 16:07	7440-47-3	
Selenium	**<0.18**	ug/L	1.0	0.18	1	05/02/25 07:23	05/16/25 16:07	7782-49-2	
Thallium	**<0.14**	ug/L	1.0	0.14	1	05/02/25 07:23	05/16/25 16:07	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Kansas City								
Mercury	**<0.096**	ug/L	0.20	0.096	1	05/16/25 14:23	05/19/25 11:02	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Kansas City								
Alkalinity, Total as CaCO3	**424**	mg/L	20.0	10.5	1		05/12/25 17:00		
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City								
Total Dissolved Solids	**651**	mg/L	13.3	13.3	1		05/05/25 14:49		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City								
Iron, Ferric	**<0.041**	mg/L	0.050	0.041	1		05/28/25 14:32	20074-52-6	
Iron, Ferrous	Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City								
Iron, Ferrous	**9.4**	mg/L	0.40	0.082	1		05/03/25 11:00	15438-31-0	H6

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

Sample: L-MW-35(D) **Lab ID: 60473874017** Collected: 04/28/25 13:50 Received: 04/30/25 07:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D Pace Analytical Services - Kansas City								
Sulfide, Total	**0.042J**	mg/L	0.050	0.016	1		05/02/25 14:32	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City								
Chloride	**9.9**	mg/L	1.0	0.53	1		05/23/25 08:19	16887-00-6	
Fluoride	**<0.12**	mg/L	0.20	0.12	1		05/23/25 08:19	16984-48-8	
Sulfate	**112**	mg/L	20.0	11.0	20		05/23/25 08:32	14808-79-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

Sample: L-AM-1S **Lab ID: 60473874018** Collected: 04/29/25 10:45 Received: 04/30/25 07:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City								
Barium	**559**	ug/L	5.0	0.64	1	05/01/25 13:06	05/23/25 10:57	7440-39-3	
Beryllium	**<0.12**	ug/L	1.0	0.12	1	05/01/25 13:06	05/23/25 10:57	7440-41-7	
Boron	**341**	ug/L	100	6.4	1	05/01/25 13:06	05/23/25 10:57	7440-42-8	
Calcium	**177000**	ug/L	200	26.9	1	05/01/25 13:06	05/23/25 10:57	7440-70-2	
Cobalt	**1.2J**	ug/L	5.0	1.2	1	05/01/25 13:06	05/23/25 10:57	7440-48-4	
Iron	**2900**	ug/L	50.0	9.1	1	05/01/25 13:06	05/23/25 10:57	7439-89-6	
Lead	**<3.8**	ug/L	10.0	3.8	1	05/01/25 13:06	05/23/25 10:57	7439-92-1	
Lithium	**35.6**	ug/L	10.0	3.7	1	05/01/25 13:06	05/23/25 10:57	7439-93-2	
Magnesium	**36400**	ug/L	50.0	20.1	1	05/01/25 13:06	05/23/25 10:57	7439-95-4	
Manganese	**627**	ug/L	5.0	0.39	1	05/01/25 13:06	05/23/25 10:57	7439-96-5	
Molybdenum	**3.7J**	ug/L	20.0	1.0	1	05/01/25 13:06	05/23/25 10:57	7439-98-7	
Potassium	**7470**	ug/L	500	69.7	1	05/01/25 13:06	05/23/25 10:57	7440-09-7	
Sodium	**60400**	ug/L	500	115	1	05/01/25 13:06	05/23/25 10:57	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Antimony	**<0.12**	ug/L	1.0	0.12	1	05/02/25 07:23	05/16/25 16:18	7440-36-0	
Arsenic	**2.9**	ug/L	1.0	0.13	1	05/02/25 07:23	05/16/25 16:18	7440-38-2	
Cadmium	**<0.050**	ug/L	0.50	0.050	1	05/02/25 07:23	05/16/25 16:18	7440-43-9	
Chromium	**0.33J**	ug/L	1.0	0.30	1	05/02/25 07:23	05/16/25 16:18	7440-47-3	
Selenium	**0.45J**	ug/L	1.0	0.18	1	05/02/25 07:23	05/16/25 16:18	7782-49-2	
Thallium	**<0.14**	ug/L	1.0	0.14	1	05/02/25 07:23	05/16/25 16:18	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Kansas City								
Mercury	**<0.096**	ug/L	0.20	0.096	1	05/16/25 14:23	05/19/25 11:09	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Kansas City								
Alkalinity, Total as CaCO3	**485**	mg/L	20.0	10.5	1		05/13/25 22:18		
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City								
Total Dissolved Solids	**810**	mg/L	20.0	20.0	1		05/06/25 13:15		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City								
Iron, Ferric	**1.2**	mg/L	0.050	0.041	1		05/28/25 14:32	20074-52-6	
Iron, Ferrous	Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City								
Iron, Ferrous	**1.7**	mg/L	0.20	0.041	1		05/03/25 11:00	15438-31-0	H6

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

Sample: L-AM-1S **Lab ID: 60473874018** Collected: 04/29/25 10:45 Received: 04/30/25 07:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D Pace Analytical Services - Kansas City								
Sulfide, Total	**<0.016**	mg/L	0.050	0.016	1		05/02/25 14:32	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City								
Chloride	**163**	mg/L	20.0	10.5	20		05/23/25 13:23	16887-00-6	
Fluoride	**<0.12**	mg/L	0.20	0.12	1		05/23/25 12:41	16984-48-8	
Sulfate	**12.5**	mg/L	1.0	0.55	1		05/23/25 12:41	14808-79-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

Sample: L-CA-DUP-2 **Lab ID: 60473874019** Collected: 04/28/25 00:00 Received: 04/30/25 07:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City								
Barium	**120**	ug/L	5.0	0.64	1	05/01/25 13:06	05/23/25 10:59	7440-39-3	
Beryllium	**<0.12**	ug/L	1.0	0.12	1	05/01/25 13:06	05/23/25 10:59	7440-41-7	
Boron	**6960**	ug/L	100	6.4	1	05/01/25 13:06	05/23/25 10:59	7440-42-8	
Calcium	**75700**	ug/L	200	26.9	1	05/01/25 13:06	05/23/25 10:59	7440-70-2	
Cobalt	**<1.2**	ug/L	5.0	1.2	1	05/01/25 13:06	05/23/25 10:59	7440-48-4	
Iron	**1930**	ug/L	50.0	9.1	1	05/01/25 13:06	05/23/25 10:59	7439-89-6	
Lead	**<3.8**	ug/L	10.0	3.8	1	05/01/25 13:06	05/23/25 10:59	7439-92-1	
Lithium	**16.8**	ug/L	10.0	3.7	1	05/01/25 13:06	05/23/25 10:59	7439-93-2	
Magnesium	**11500**	ug/L	50.0	20.1	1	05/01/25 13:06	05/23/25 10:59	7439-95-4	
Manganese	**356**	ug/L	5.0	0.39	1	05/01/25 13:06	05/23/25 10:59	7439-96-5	
Molybdenum	**290**	ug/L	20.0	1.0	1	05/01/25 13:06	05/23/25 10:59	7439-98-7	
Potassium	**6610**	ug/L	500	69.7	1	05/01/25 13:06	05/23/25 10:59	7440-09-7	
Sodium	**75600**	ug/L	500	115	1	05/01/25 13:06	05/23/25 10:59	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Antimony	**<0.12**	ug/L	1.0	0.12	1	05/02/25 07:23	05/16/25 16:20	7440-36-0	
Arsenic	**0.34J**	ug/L	1.0	0.13	1	05/02/25 07:23	05/16/25 16:20	7440-38-2	
Cadmium	**0.10J**	ug/L	0.50	0.050	1	05/02/25 07:23	05/16/25 16:20	7440-43-9	
Chromium	**0.31J**	ug/L	1.0	0.30	1	05/02/25 07:23	05/16/25 16:20	7440-47-3	
Selenium	**<0.18**	ug/L	1.0	0.18	1	05/02/25 07:23	05/16/25 16:20	7782-49-2	
Thallium	**<0.14**	ug/L	1.0	0.14	1	05/02/25 07:23	05/16/25 16:20	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Kansas City								
Mercury	**<0.096**	ug/L	0.20	0.096	1	05/16/25 14:23	05/19/25 11:11	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Kansas City								
Alkalinity, Total as CaCO3	**114**	mg/L	20.0	10.5	1		05/12/25 17:12		
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City								
Total Dissolved Solids	**604**	mg/L	10.0	10.0	1		05/05/25 14:49		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City								
Iron, Ferric	**<0.041**	mg/L	0.050	0.041	1		05/28/25 14:32	20074-52-6	
Iron, Ferrous	Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City								
Iron, Ferrous	**2.9**	mg/L	0.20	0.041	1		05/03/25 11:00	15438-31-0	H6

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

Sample: L-CA-DUP-2 **Lab ID: 60473874019** Collected: 04/28/25 00:00 Received: 04/30/25 07:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D Pace Analytical Services - Kansas City								
Sulfide, Total	**0.025J**	mg/L	0.050	0.016	1		05/02/25 14:32	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City								
Chloride	**22.2**	mg/L	10.0	5.3	10		05/23/25 03:36	16887-00-6	B
Fluoride	**0.25**	mg/L	0.20	0.12	1		05/23/25 02:54	16984-48-8	
Sulfate	**305**	mg/L	100	55.0	100		05/23/25 03:49	14808-79-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

Sample: L-CA-DUP-3 **Lab ID: 60473874020** Collected: 04/28/25 00:00 Received: 04/30/25 07:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City								
Barium	**101**	ug/L	5.0	0.64	1	05/01/25 13:06	05/23/25 11:01	7440-39-3	
Beryllium	**<0.12**	ug/L	1.0	0.12	1	05/01/25 13:06	05/23/25 11:01	7440-41-7	
Boron	**7560**	ug/L	100	6.4	1	05/01/25 13:06	05/23/25 11:01	7440-42-8	
Calcium	**117000**	ug/L	200	26.9	1	05/01/25 13:06	05/23/25 11:01	7440-70-2	
Cobalt	**<1.2**	ug/L	5.0	1.2	1	05/01/25 13:06	05/23/25 11:01	7440-48-4	
Iron	**7030**	ug/L	50.0	9.1	1	05/01/25 13:06	05/23/25 11:01	7439-89-6	
Lead	**<3.8**	ug/L	10.0	3.8	1	05/01/25 13:06	05/23/25 11:01	7439-92-1	
Lithium	**34.7**	ug/L	10.0	3.7	1	05/01/25 13:06	05/23/25 11:01	7439-93-2	
Magnesium	**27900**	ug/L	50.0	20.1	1	05/01/25 13:06	05/23/25 11:01	7439-95-4	
Manganese	**313**	ug/L	5.0	0.39	1	05/01/25 13:06	05/23/25 11:01	7439-96-5	
Molybdenum	**475**	ug/L	20.0	1.0	1	05/01/25 13:06	05/23/25 11:01	7439-98-7	
Potassium	**6800**	ug/L	500	69.7	1	05/01/25 13:06	05/23/25 11:01	7440-09-7	
Sodium	**58900**	ug/L	500	115	1	05/01/25 13:06	05/23/25 11:01	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Antimony	**<0.12**	ug/L	1.0	0.12	1	05/02/25 07:23	05/16/25 16:23	7440-36-0	
Arsenic	**3.7**	ug/L	1.0	0.13	1	05/02/25 07:23	05/16/25 16:23	7440-38-2	
Cadmium	**0.20J**	ug/L	0.50	0.050	1	05/02/25 07:23	05/16/25 16:23	7440-43-9	
Chromium	**0.38J**	ug/L	1.0	0.30	1	05/02/25 07:23	05/16/25 16:23	7440-47-3	
Selenium	**<0.18**	ug/L	1.0	0.18	1	05/02/25 07:23	05/16/25 16:23	7782-49-2	
Thallium	**<0.14**	ug/L	1.0	0.14	1	05/02/25 07:23	05/16/25 16:23	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Kansas City								
Mercury	**<0.096**	ug/L	0.20	0.096	1	05/16/25 14:23	05/19/25 11:18	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Kansas City								
Alkalinity, Total as CaCO3	**338**	mg/L	20.0	10.5	1		05/12/25 17:18		
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City								
Total Dissolved Solids	**699**	mg/L	13.3	13.3	1		05/05/25 14:49		MW
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City								
Iron, Ferric	**<0.041**	mg/L	0.050	0.041	1		05/28/25 14:32	20074-52-6	
Iron, Ferrous	Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City								
Iron, Ferrous	**9.8**	mg/L	0.40	0.082	1		05/03/25 11:00	15438-31-0	H6

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

Sample: L-CA-DUP-3 **Lab ID: 60473874020** Collected: 04/28/25 00:00 Received: 04/30/25 07:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D Pace Analytical Services - Kansas City								
Sulfide, Total	**0.057**	mg/L	0.050	0.016	1		05/02/25 14:32	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City								
Chloride	**14.3**	mg/L	1.0	0.53	1		05/23/25 04:03	16887-00-6	
Fluoride	**<0.12**	mg/L	0.20	0.12	1		05/23/25 04:03	16984-48-8	
Sulfate	**201**	mg/L	50.0	27.5	50		05/23/25 04:31	14808-79-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

Sample: L-CA-FB-1 **Lab ID: 60473874021** Collected: 04/29/25 09:10 Received: 04/30/25 07:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City								
Barium	**<0.64**	ug/L	5.0	0.64	1	05/01/25 13:06	05/23/25 11:03	7440-39-3	
Beryllium	**<0.12**	ug/L	1.0	0.12	1	05/01/25 13:06	05/23/25 11:03	7440-41-7	
Boron	**16.9J**	ug/L	100	6.4	1	05/01/25 13:06	05/23/25 11:03	7440-42-8	
Calcium	**43.4J**	ug/L	200	26.9	1	05/01/25 13:06	05/23/25 11:03	7440-70-2	
Cobalt	**<1.2**	ug/L	5.0	1.2	1	05/01/25 13:06	05/23/25 11:03	7440-48-4	
Iron	**<9.1**	ug/L	50.0	9.1	1	05/01/25 13:06	05/23/25 11:03	7439-89-6	
Lead	**<3.8**	ug/L	10.0	3.8	1	05/01/25 13:06	05/23/25 11:03	7439-92-1	
Lithium	**<3.7**	ug/L	10.0	3.7	1	05/01/25 13:06	05/23/25 11:03	7439-93-2	
Magnesium	**<20.1**	ug/L	50.0	20.1	1	05/01/25 13:06	05/23/25 11:03	7439-95-4	
Manganese	**<0.39**	ug/L	5.0	0.39	1	05/01/25 13:06	05/23/25 11:03	7439-96-5	
Molybdenum	**<1.0**	ug/L	20.0	1.0	1	05/01/25 13:06	05/23/25 11:03	7439-98-7	
Potassium	**<69.7**	ug/L	500	69.7	1	05/01/25 13:06	05/23/25 11:03	7440-09-7	
Sodium	**156J**	ug/L	500	115	1	05/01/25 13:06	05/23/25 11:03	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Antimony	**<0.12**	ug/L	1.0	0.12	1	05/02/25 07:23	05/16/25 16:29	7440-36-0	
Arsenic	**<0.13**	ug/L	1.0	0.13	1	05/02/25 07:23	05/16/25 16:29	7440-38-2	
Cadmium	**<0.050**	ug/L	0.50	0.050	1	05/02/25 07:23	05/16/25 16:29	7440-43-9	
Chromium	**0.32J**	ug/L	1.0	0.30	1	05/02/25 07:23	05/16/25 16:29	7440-47-3	
Selenium	**<0.18**	ug/L	1.0	0.18	1	05/02/25 07:23	05/16/25 16:29	7782-49-2	
Thallium	**<0.14**	ug/L	1.0	0.14	1	05/02/25 07:23	05/16/25 16:29	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Kansas City								
Mercury	**<0.096**	ug/L	0.20	0.096	1	05/16/25 14:23	05/19/25 11:20	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Kansas City								
Alkalinity, Total as CaCO3	**<10.5**	mg/L	20.0	10.5	1		05/13/25 22:21		
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City								
Total Dissolved Solids	**<5.0**	mg/L	5.0	5.0	1		05/06/25 13:15		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City								
Iron, Ferric	**<0.041**	mg/L	0.050	0.041	1		05/28/25 14:32	20074-52-6	
Iron, Ferrous	Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City								
Iron, Ferrous	**<0.041**	mg/L	0.20	0.041	1		05/03/25 11:00	15438-31-0	H6

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

Sample: L-CA-FB-1 **Lab ID: 60473874021** Collected: 04/29/25 09:10 Received: 04/30/25 07:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D Pace Analytical Services - Kansas City								
Sulfide, Total	**<0.016**	mg/L	0.050	0.016	1		05/02/25 14:32	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City								
Chloride	**0.59J**	mg/L	1.0	0.53	1		05/23/25 13:37	16887-00-6	
Fluoride	**<0.12**	mg/L	0.20	0.12	1		05/23/25 13:37	16984-48-8	
Sulfate	**<0.55**	mg/L	1.0	0.55	1		05/23/25 13:37	14808-79-8	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

Sample: L-CA-FB-2 **Lab ID: 60473874022** Collected: 04/29/25 09:55 Received: 04/30/25 07:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City								
Barium	**<0.64**	ug/L	5.0	0.64	1	05/01/25 13:06	05/23/25 11:14	7440-39-3	
Beryllium	**<0.12**	ug/L	1.0	0.12	1	05/01/25 13:06	05/23/25 11:14	7440-41-7	
Boron	**<6.4**	ug/L	100	6.4	1	05/01/25 13:06	05/23/25 11:14	7440-42-8	
Calcium	**37.9J**	ug/L	200	26.9	1	05/01/25 13:06	05/23/25 11:14	7440-70-2	
Cobalt	**<1.2**	ug/L	5.0	1.2	1	05/01/25 13:06	05/23/25 11:14	7440-48-4	
Iron	**<9.1**	ug/L	50.0	9.1	1	05/01/25 13:06	05/23/25 11:14	7439-89-6	
Lead	**<3.8**	ug/L	10.0	3.8	1	05/01/25 13:06	05/23/25 11:14	7439-92-1	
Lithium	**<3.7**	ug/L	10.0	3.7	1	05/01/25 13:06	05/23/25 11:14	7439-93-2	
Magnesium	**<20.1**	ug/L	50.0	20.1	1	05/01/25 13:06	05/23/25 11:14	7439-95-4	
Manganese	**<0.39**	ug/L	5.0	0.39	1	05/01/25 13:06	05/23/25 11:14	7439-96-5	
Molybdenum	**<1.0**	ug/L	20.0	1.0	1	05/01/25 13:06	05/23/25 11:14	7439-98-7	
Potassium	**<69.7**	ug/L	500	69.7	1	05/01/25 13:06	05/23/25 11:14	7440-09-7	
Sodium	**201J**	ug/L	500	115	1	05/01/25 13:06	05/23/25 11:14	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Antimony	**<0.12**	ug/L	1.0	0.12	1	05/02/25 07:23	05/16/25 16:31	7440-36-0	
Arsenic	**<0.13**	ug/L	1.0	0.13	1	05/02/25 07:23	05/16/25 16:31	7440-38-2	
Cadmium	**<0.050**	ug/L	0.50	0.050	1	05/02/25 07:23	05/16/25 16:31	7440-43-9	
Chromium	**0.40J**	ug/L	1.0	0.30	1	05/02/25 07:23	05/16/25 16:31	7440-47-3	
Selenium	**<0.18**	ug/L	1.0	0.18	1	05/02/25 07:23	05/16/25 16:31	7782-49-2	
Thallium	**<0.14**	ug/L	1.0	0.14	1	05/02/25 07:23	05/16/25 16:31	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Kansas City								
Mercury	**<0.096**	ug/L	0.20	0.096	1	05/16/25 14:23	05/19/25 11:23	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Kansas City								
Alkalinity, Total as CaCO3	**<10.5**	mg/L	20.0	10.5	1		05/13/25 22:24		
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City								
Total Dissolved Solids	**<5.0**	mg/L	5.0	5.0	1		05/06/25 13:15		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City								
Iron, Ferric	**<0.041**	mg/L	0.050	0.041	1		05/28/25 14:32	20074-52-6	
Iron, Ferrous	Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City								
Iron, Ferrous	**<0.041**	mg/L	0.20	0.041	1		05/03/25 11:00	15438-31-0	H6

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

Sample: L-CA-FB-2 **Lab ID: 60473874022** Collected: 04/29/25 09:55 Received: 04/30/25 07:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D Pace Analytical Services - Kansas City								
Sulfide, Total	**<0.016**	mg/L	0.050	0.016	1		05/02/25 14:32	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City								
Chloride	**<0.53**	mg/L	1.0	0.53	1		05/23/25 13:51	16887-00-6	
Fluoride	**<0.12**	mg/L	0.20	0.12	1		05/23/25 13:51	16984-48-8	
Sulfate	**<0.55**	mg/L	1.0	0.55	1		05/23/25 13:51	14808-79-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

Sample: L-AM-1D **Lab ID: 60473874025** Collected: 04/29/25 09:25 Received: 04/30/25 07:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City								
Barium	**70.2**	ug/L	5.0	0.64	1	05/01/25 13:06	05/23/25 11:16	7440-39-3	
Beryllium	**<0.12**	ug/L	1.0	0.12	1	05/01/25 13:06	05/23/25 11:16	7440-41-7	
Boron	**6400**	ug/L	100	6.4	1	05/01/25 13:06	05/23/25 11:16	7440-42-8	
Calcium	**104000**	ug/L	200	26.9	1	05/01/25 13:06	05/23/25 11:16	7440-70-2	
Cobalt	**<1.2**	ug/L	5.0	1.2	1	05/01/25 13:06	05/23/25 11:16	7440-48-4	
Iron	**4870**	ug/L	50.0	9.1	1	05/01/25 13:06	05/23/25 11:16	7439-89-6	
Lead	**<3.8**	ug/L	10.0	3.8	1	05/01/25 13:06	05/23/25 11:16	7439-92-1	
Lithium	**31.9**	ug/L	10.0	3.7	1	05/01/25 13:06	05/23/25 11:16	7439-93-2	
Magnesium	**12200**	ug/L	50.0	20.1	1	05/01/25 13:06	05/23/25 11:16	7439-95-4	
Manganese	**278**	ug/L	5.0	0.39	1	05/01/25 13:06	05/23/25 11:16	7439-96-5	
Molybdenum	**310**	ug/L	20.0	1.0	1	05/01/25 13:06	05/23/25 11:16	7439-98-7	
Potassium	**8910**	ug/L	500	69.7	1	05/01/25 13:06	05/23/25 11:16	7440-09-7	
Sodium	**97700**	ug/L	500	115	1	05/01/25 13:06	05/23/25 11:16	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Antimony	**<0.12**	ug/L	1.0	0.12	1	05/02/25 07:23	05/16/25 16:34	7440-36-0	
Arsenic	**2.8**	ug/L	1.0	0.13	1	05/02/25 07:23	05/16/25 16:34	7440-38-2	
Cadmium	**0.11J**	ug/L	0.50	0.050	1	05/02/25 07:23	05/16/25 16:34	7440-43-9	
Chromium	**0.43J**	ug/L	1.0	0.30	1	05/02/25 07:23	05/16/25 16:34	7440-47-3	
Selenium	**<0.18**	ug/L	1.0	0.18	1	05/02/25 07:23	05/16/25 16:34	7782-49-2	
Thallium	**<0.14**	ug/L	1.0	0.14	1	05/02/25 07:23	05/16/25 16:34	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Kansas City								
Mercury	**<0.096**	ug/L	0.20	0.096	1	05/16/25 14:23	05/19/25 11:25	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Kansas City								
Alkalinity, Total as CaCO3	**194**	mg/L	20.0	10.5	1		05/13/25 22:30		
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City								
Total Dissolved Solids	**717**	mg/L	13.3	13.3	1		05/06/25 13:16		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City								
Iron, Ferric	**<0.041**	mg/L	0.050	0.041	1		05/28/25 14:32	20074-52-6	
Iron, Ferrous	Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City								
Iron, Ferrous	**6.7**	mg/L	0.40	0.082	1		05/03/25 11:00	15438-31-0	H6

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

Sample: L-AM-1D **Lab ID: 60473874025** Collected: 04/29/25 09:25 Received: 04/30/25 07:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D Pace Analytical Services - Kansas City								
Sulfide, Total	**0.016J**	mg/L	0.050	0.016	1		05/02/25 14:32	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City								
Chloride	**48.8**	mg/L	20.0	10.5	20		05/23/25 14:32	16887-00-6	
Fluoride	**0.24**	mg/L	0.20	0.12	1		05/23/25 14:18	16984-48-8	
Sulfate	**283**	mg/L	20.0	11.0	20		05/23/25 14:32	14808-79-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

Sample: L-S-1 **Lab ID: 60473874029** Collected: 04/30/25 11:10 Received: 05/02/25 07:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City								
Barium	**347**	ug/L	5.0	0.64	1	05/06/25 08:42	05/22/25 20:21	7440-39-3	
Beryllium	**<0.12**	ug/L	1.0	0.12	1	05/06/25 08:42	05/22/25 20:21	7440-41-7	
Boron	**103**	ug/L	100	6.4	1	05/06/25 08:42	05/22/25 20:21	7440-42-8	
Calcium	**127000**	ug/L	200	26.9	1	05/06/25 08:42	05/22/25 20:21	7440-70-2	
Cobalt	**<1.2**	ug/L	5.0	1.2	1	05/06/25 08:42	05/22/25 20:21	7440-48-4	
Iron	**38.1J**	ug/L	50.0	9.1	1	05/06/25 08:42	05/22/25 20:21	7439-89-6	B
Lead	**<3.8**	ug/L	10.0	3.8	1	05/06/25 08:42	05/22/25 20:21	7439-92-1	
Lithium	**26.1**	ug/L	10.0	3.7	1	05/06/25 08:42	05/22/25 20:21	7439-93-2	
Magnesium	**19500**	ug/L	50.0	20.1	1	05/06/25 08:42	05/22/25 20:21	7439-95-4	
Manganese	**504**	ug/L	5.0	0.39	1	05/06/25 08:42	05/22/25 20:21	7439-96-5	
Molybdenum	**<1.0**	ug/L	20.0	1.0	1	05/06/25 08:42	05/22/25 20:21	7439-98-7	
Potassium	**22900**	ug/L	500	69.7	1	05/06/25 08:42	05/22/25 20:21	7440-09-7	
Sodium	**3600**	ug/L	500	115	1	05/06/25 08:42	05/22/25 20:21	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Antimony	**<0.12**	ug/L	1.0	0.12	1	05/06/25 08:42	05/16/25 17:21	7440-36-0	
Arsenic	**0.46J**	ug/L	1.0	0.13	1	05/06/25 08:42	05/16/25 17:21	7440-38-2	
Cadmium	**0.12J**	ug/L	0.50	0.050	1	05/06/25 08:42	05/16/25 17:21	7440-43-9	
Chromium	**0.31J**	ug/L	1.0	0.30	1	05/06/25 08:42	05/16/25 17:21	7440-47-3	
Selenium	**0.82J**	ug/L	1.0	0.18	1	05/06/25 08:42	05/16/25 17:21	7782-49-2	
Thallium	**<0.14**	ug/L	1.0	0.14	1	05/06/25 08:42	05/16/25 17:21	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Kansas City								
Mercury	**<0.096**	ug/L	0.20	0.096	1	05/16/25 14:23	05/19/25 11:48	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Kansas City								
Alkalinity, Total as CaCO3	**440**	mg/L	20.0	10.5	1		05/14/25 19:45		
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City								
Total Dissolved Solids	**502**	mg/L	10.0	10.0	1		05/07/25 15:12		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City								
Iron, Ferric	**<0.041**	mg/L	0.050	0.041	1		05/28/25 14:32	20074-52-6	
Iron, Ferrous	Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City								
Iron, Ferrous	**<0.041**	mg/L	0.20	0.041	1		05/03/25 11:00	15438-31-0	H6

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

Sample: L-S-1 **Lab ID: 60473874029** Collected: 04/30/25 11:10 Received: 05/02/25 07:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D Pace Analytical Services - Kansas City								
Sulfide, Total	**<0.016**	mg/L	0.050	0.016	1		05/05/25 13:33	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City								
Chloride	**2.1**	mg/L	1.0	0.53	1		05/23/25 04:45	16887-00-6	B
Fluoride	**<0.12**	mg/L	0.20	0.12	1		05/23/25 04:45	16984-48-8	
Sulfate	**14.4**	mg/L	1.0	0.55	1		05/23/25 04:45	14808-79-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

Sample: L-TP-2M **Lab ID: 60473874030** Collected: 04/30/25 10:30 Received: 05/02/25 07:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City								
Barium	**140**	ug/L	5.0	0.64	1	05/06/25 08:42	05/22/25 20:28	7440-39-3	
Beryllium	**<0.12**	ug/L	1.0	0.12	1	05/06/25 08:42	05/22/25 20:28	7440-41-7	
Boron	**1040**	ug/L	100	6.4	1	05/06/25 08:42	05/22/25 20:28	7440-42-8	
Calcium	**111000**	ug/L	200	26.9	1	05/06/25 08:42	05/22/25 20:28	7440-70-2	
Cobalt	**<1.2**	ug/L	5.0	1.2	1	05/06/25 08:42	05/22/25 20:28	7440-48-4	
Iron	**4030**	ug/L	50.0	9.1	1	05/06/25 08:42	05/22/25 20:28	7439-89-6	
Lead	**<3.8**	ug/L	10.0	3.8	1	05/06/25 08:42	05/22/25 20:28	7439-92-1	
Lithium	**32.4**	ug/L	10.0	3.7	1	05/06/25 08:42	05/22/25 20:28	7439-93-2	
Magnesium	**16900**	ug/L	50.0	20.1	1	05/06/25 08:42	05/22/25 20:28	7439-95-4	
Manganese	**479**	ug/L	5.0	0.39	1	05/06/25 08:42	05/22/25 20:28	7439-96-5	
Molybdenum	**66.0**	ug/L	20.0	1.0	1	05/06/25 08:42	05/22/25 20:28	7439-98-7	
Potassium	**6680**	ug/L	500	69.7	1	05/06/25 08:42	05/22/25 20:28	7440-09-7	
Sodium	**73200**	ug/L	500	115	1	05/06/25 08:42	05/22/25 20:28	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Antimony	**<0.12**	ug/L	1.0	0.12	1	05/06/25 08:42	05/16/25 17:29	7440-36-0	
Arsenic	**0.43J**	ug/L	1.0	0.13	1	05/06/25 08:42	05/16/25 17:29	7440-38-2	
Cadmium	**<0.050**	ug/L	0.50	0.050	1	05/06/25 08:42	05/16/25 17:29	7440-43-9	
Chromium	**0.45J**	ug/L	1.0	0.30	1	05/06/25 08:42	05/16/25 17:29	7440-47-3	
Selenium	**<0.18**	ug/L	1.0	0.18	1	05/06/25 08:42	05/16/25 17:29	7782-49-2	
Thallium	**<0.14**	ug/L	1.0	0.14	1	05/06/25 08:42	05/16/25 17:29	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Kansas City								
Mercury	**<0.096**	ug/L	0.20	0.096	1	05/16/25 14:23	05/19/25 11:55	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Kansas City								
Alkalinity, Total as CaCO3	**275**	mg/L	20.0	10.5	1		05/14/25 19:51		
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City								
Total Dissolved Solids	**671**	mg/L	13.3	13.3	1		05/07/25 15:12		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City								
Iron, Ferric	**0.0J**	mg/L	0.050		1		05/28/25 14:38	20074-52-6	
Iron, Ferrous	Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City								
Iron, Ferrous	**5.5**	mg/L	0.20	0.041	1		05/03/25 11:00	15438-31-0	H6

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

Sample: L-TP-2M **Lab ID: 60473874030** Collected: 04/30/25 10:30 Received: 05/02/25 07:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D Pace Analytical Services - Kansas City								
Sulfide, Total	**<0.016**	mg/L	0.050	0.016	1		05/05/25 13:33	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City								
Chloride	**34.5**	mg/L	20.0	10.5	20		05/28/25 00:47	16887-00-6	
Fluoride	**0.41**	mg/L	0.20	0.12	1		05/28/25 00:35	16984-48-8	
Sulfate	**228**	mg/L	20.0	11.0	20		05/28/25 00:47	14808-79-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

Sample: L-TP-2D **Lab ID: 60473874031** Collected: 04/30/25 11:19 Received: 05/02/25 07:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City								
Barium	**118**	ug/L	5.0	0.64	1	05/06/25 08:42	05/22/25 20:30	7440-39-3	
Beryllium	**<0.12**	ug/L	1.0	0.12	1	05/06/25 08:42	05/22/25 20:30	7440-41-7	
Boron	**1810**	ug/L	100	6.4	1	05/06/25 08:42	05/22/25 20:30	7440-42-8	
Calcium	**97200**	ug/L	200	26.9	1	05/06/25 08:42	05/22/25 20:30	7440-70-2	
Cobalt	**<1.2**	ug/L	5.0	1.2	1	05/06/25 08:42	05/22/25 20:30	7440-48-4	
Iron	**3720**	ug/L	50.0	9.1	1	05/06/25 08:42	05/22/25 20:30	7439-89-6	
Lead	**<3.8**	ug/L	10.0	3.8	1	05/06/25 08:42	05/22/25 20:30	7439-92-1	
Lithium	**40.6**	ug/L	10.0	3.7	1	05/06/25 08:42	05/22/25 20:30	7439-93-2	
Magnesium	**17200**	ug/L	50.0	20.1	1	05/06/25 08:42	05/22/25 20:30	7439-95-4	
Manganese	**347**	ug/L	5.0	0.39	1	05/06/25 08:42	05/22/25 20:30	7439-96-5	
Molybdenum	**118**	ug/L	20.0	1.0	1	05/06/25 08:42	05/22/25 20:30	7439-98-7	
Potassium	**5650**	ug/L	500	69.7	1	05/06/25 08:42	05/22/25 20:30	7440-09-7	
Sodium	**59100**	ug/L	500	115	1	05/06/25 08:42	05/22/25 20:30	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Antimony	**<0.12**	ug/L	1.0	0.12	1	05/06/25 08:42	05/16/25 17:32	7440-36-0	
Arsenic	**11.1**	ug/L	1.0	0.13	1	05/06/25 08:42	05/16/25 17:32	7440-38-2	
Cadmium	**0.050J**	ug/L	0.50	0.050	1	05/06/25 08:42	05/16/25 17:32	7440-43-9	
Chromium	**0.78J**	ug/L	1.0	0.30	1	05/06/25 08:42	05/16/25 17:32	7440-47-3	
Selenium	**<0.18**	ug/L	1.0	0.18	1	05/06/25 08:42	05/16/25 17:32	7782-49-2	
Thallium	**<0.14**	ug/L	1.0	0.14	1	05/06/25 08:42	05/16/25 17:32	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Kansas City								
Mercury	**<0.096**	ug/L	0.20	0.096	1	05/16/25 14:23	05/19/25 11:57	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Kansas City								
Alkalinity, Total as CaCO3	**255**	mg/L	20.0	10.5	1		05/14/25 19:58		
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City								
Total Dissolved Solids	**576**	mg/L	10.0	10.0	1		05/07/25 15:12		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City								
Iron, Ferric	**0.0J**	mg/L	0.050		1		05/28/25 14:38	20074-52-6	
Iron, Ferrous	Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City								
Iron, Ferrous	**5.7**	mg/L	0.20	0.041	1		05/03/25 11:00	15438-31-0	H6

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

Sample: L-TP-2D **Lab ID: 60473874031** Collected: 04/30/25 11:19 Received: 05/02/25 07:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D Pace Analytical Services - Kansas City								
Sulfide, Total	**<0.016**	mg/L	0.050	0.016	1		05/05/25 13:33	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City								
Chloride	**52.9**	mg/L	20.0	10.5	20		05/28/25 01:46	16887-00-6	
Fluoride	**0.44**	mg/L	0.20	0.12	1		05/28/25 01:10	16984-48-8	
Sulfate	**331**	mg/L	20.0	11.0	20		05/28/25 01:46	14808-79-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

Sample: L-CA-FB-3 **Lab ID: 60473874032** Collected: 04/30/25 11:15 Received: 05/02/25 07:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City								
Barium	**<0.64**	ug/L	5.0	0.64	1	05/06/25 08:42	05/22/25 20:32	7440-39-3	
Beryllium	**<0.12**	ug/L	1.0	0.12	1	05/06/25 08:42	05/22/25 20:32	7440-41-7	
Boron	**<6.4**	ug/L	100	6.4	1	05/06/25 08:42	05/22/25 20:32	7440-42-8	
Calcium	**52.3J**	ug/L	200	26.9	1	05/06/25 08:42	05/22/25 20:32	7440-70-2	B
Cobalt	**<1.2**	ug/L	5.0	1.2	1	05/06/25 08:42	05/22/25 20:32	7440-48-4	
Iron	**11.9J**	ug/L	50.0	9.1	1	05/06/25 08:42	05/22/25 20:32	7439-89-6	B
Lead	**<3.8**	ug/L	10.0	3.8	1	05/06/25 08:42	05/22/25 20:32	7439-92-1	
Lithium	**<3.7**	ug/L	10.0	3.7	1	05/06/25 08:42	05/22/25 20:32	7439-93-2	
Magnesium	**<20.1**	ug/L	50.0	20.1	1	05/06/25 08:42	05/22/25 20:32	7439-95-4	
Manganese	**<0.39**	ug/L	5.0	0.39	1	05/06/25 08:42	05/22/25 20:32	7439-96-5	
Molybdenum	**<1.0**	ug/L	20.0	1.0	1	05/06/25 08:42	05/22/25 20:32	7439-98-7	
Potassium	**<69.7**	ug/L	500	69.7	1	05/06/25 08:42	05/22/25 20:32	7440-09-7	
Sodium	**220J**	ug/L	500	115	1	05/06/25 08:42	05/22/25 20:32	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Antimony	**<0.12**	ug/L	1.0	0.12	1	05/06/25 08:42	05/16/25 17:34	7440-36-0	
Arsenic	**<0.13**	ug/L	1.0	0.13	1	05/06/25 08:42	05/16/25 17:34	7440-38-2	
Cadmium	**<0.050**	ug/L	0.50	0.050	1	05/06/25 08:42	05/16/25 17:34	7440-43-9	
Chromium	**0.40J**	ug/L	1.0	0.30	1	05/06/25 08:42	05/16/25 17:34	7440-47-3	
Selenium	**<0.18**	ug/L	1.0	0.18	1	05/06/25 08:42	05/16/25 17:34	7782-49-2	
Thallium	**<0.14**	ug/L	1.0	0.14	1	05/06/25 08:42	05/16/25 17:34	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Kansas City								
Mercury	**<0.096**	ug/L	0.20	0.096	1	05/16/25 14:23	05/19/25 11:59	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Kansas City								
Alkalinity, Total as CaCO3	**<10.5**	mg/L	20.0	10.5	1		05/14/25 20:01		
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City								
Total Dissolved Solids	**<5.0**	mg/L	5.0	5.0	1		05/07/25 15:12		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City								
Iron, Ferric	**0.0099J**	mg/L	0.050		1		05/28/25 14:38	20074-52-6	
Iron, Ferrous	Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City								
Iron, Ferrous	**<0.041**	mg/L	0.20	0.041	1		05/03/25 11:00	15438-31-0	H6

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

Sample: L-CA-FB-3 **Lab ID: 60473874032** Collected: 04/30/25 11:15 Received: 05/02/25 07:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D Pace Analytical Services - Kansas City								
Sulfide, Total	**<0.016**	mg/L	0.050	0.016	1		05/05/25 13:33	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City								
Chloride	**<0.53**	mg/L	1.0	0.53	1		05/28/25 00:59	16887-00-6	
Fluoride	**<0.12**	mg/L	0.20	0.12	1		05/28/25 00:59	16984-48-8	
Sulfate	**<0.55**	mg/L	1.0	0.55	1		05/28/25 00:59	14808-79-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

Sample: L-MW-26 **Lab ID: 60473874028** Collected: 04/30/25 12:22 Received: 05/02/25 07:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City								
Barium	**214**	ug/L	5.0	0.64	1	05/06/25 08:42	05/22/25 20:17	7440-39-3	
Beryllium	**<0.12**	ug/L	1.0	0.12	1	05/06/25 08:42	05/22/25 20:17	7440-41-7	
Boron	**76.6J**	ug/L	100	6.4	1	05/06/25 08:42	05/22/25 20:17	7440-42-8	
Calcium	**136000**	ug/L	200	26.9	1	05/06/25 08:42	05/22/25 20:17	7440-70-2	M1,P6
Cobalt	**<1.2**	ug/L	5.0	1.2	1	05/06/25 08:42	05/22/25 20:17	7440-48-4	
Iron	**34.3J**	ug/L	50.0	9.1	1	05/06/25 08:42	05/22/25 20:17	7439-89-6	B
Lead	**<3.8**	ug/L	10.0	3.8	1	05/06/25 08:42	05/22/25 20:17	7439-92-1	
Lithium	**29.1**	ug/L	10.0	3.7	1	05/06/25 08:42	05/22/25 20:17	7439-93-2	
Magnesium	**24900**	ug/L	50.0	20.1	1	05/06/25 08:42	05/22/25 20:17	7439-95-4	
Manganese	**151**	ug/L	5.0	0.39	1	05/06/25 08:42	05/22/25 20:17	7439-96-5	
Molybdenum	**<1.0**	ug/L	20.0	1.0	1	05/06/25 08:42	05/22/25 20:17	7439-98-7	
Potassium	**4740**	ug/L	500	69.7	1	05/06/25 08:42	05/22/25 20:17	7440-09-7	
Sodium	**10900**	ug/L	500	115	1	05/06/25 08:42	05/22/25 20:17	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Antimony	**<0.12**	ug/L	1.0	0.12	1	05/06/25 08:42	05/16/25 17:18	7440-36-0	
Arsenic	**0.45J**	ug/L	1.0	0.13	1	05/06/25 08:42	05/16/25 17:18	7440-38-2	
Cadmium	**<0.050**	ug/L	0.50	0.050	1	05/06/25 08:42	05/16/25 17:18	7440-43-9	
Chromium	**0.38J**	ug/L	1.0	0.30	1	05/06/25 08:42	05/16/25 17:18	7440-47-3	
Selenium	**3.4**	ug/L	1.0	0.18	1	05/06/25 08:42	05/16/25 17:18	7782-49-2	
Thallium	**<0.14**	ug/L	1.0	0.14	1	05/06/25 08:42	05/16/25 17:18	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Kansas City								
Mercury	**<0.096**	ug/L	0.20	0.096	1	05/16/25 14:23	05/19/25 11:46	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Kansas City								
Alkalinity, Total as CaCO3	**432**	mg/L	20.0	10.5	1		05/14/25 19:37		
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City								
Total Dissolved Solids	**522**	mg/L	10.0	10.0	1		05/07/25 15:12		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City								
Iron, Ferric	**<0.041**	mg/L	0.050	0.041	1		05/28/25 14:32	20074-52-6	
Iron, Ferrous	Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City								
Iron, Ferrous	**<0.041**	mg/L	0.20	0.041	1		05/03/25 11:00	15438-31-0	H6

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

Sample: L-MW-26 **Lab ID: 60473874028** Collected: 04/30/25 12:22 Received: 05/02/25 07:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D Pace Analytical Services - Kansas City								
Sulfide, Total	**<0.016**	mg/L	0.050	0.016	1		05/05/25 13:33	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City								
Chloride	**7.3**	mg/L	1.0	0.53	1		05/23/25 18:14	16887-00-6	
Fluoride	**<0.12**	mg/L	0.20	0.12	1		05/23/25 18:14	16984-48-8	
Sulfate	**29.3**	mg/L	20.0	11.0	20		05/23/25 18:55	14808-79-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

Sample: L-LMW-1S **Lab ID: 60473874013** Collected: 04/29/25 13:47 Received: 04/30/25 07:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City								
Barium	**<0.64**	ug/L	5.0	0.64	1	05/01/25 13:06	05/23/25 12:12	7440-39-3	
Beryllium	**<0.12**	ug/L	1.0	0.12	1	05/01/25 13:06	05/23/25 12:12	7440-41-7	
Boron	**16.4J**	ug/L	100	6.4	1	05/01/25 13:06	05/23/25 12:12	7440-42-8	
Calcium	**<26.9**	ug/L	200	26.9	1	05/01/25 13:06	05/23/25 12:12	7440-70-2	
Cobalt	**<1.2**	ug/L	5.0	1.2	1	05/01/25 13:06	05/23/25 12:12	7440-48-4	
Iron	**<9.1**	ug/L	50.0	9.1	1	05/01/25 13:06	05/23/25 12:12	7439-89-6	
Lead	**<3.8**	ug/L	10.0	3.8	1	05/01/25 13:06	05/23/25 12:12	7439-92-1	
Lithium	**<3.7**	ug/L	10.0	3.7	1	05/01/25 13:06	05/23/25 12:12	7439-93-2	
Magnesium	**<20.1**	ug/L	50.0	20.1	1	05/01/25 13:06	05/23/25 12:12	7439-95-4	
Manganese	**<0.39**	ug/L	5.0	0.39	1	05/01/25 13:06	05/23/25 12:12	7439-96-5	
Molybdenum	**<1.0**	ug/L	20.0	1.0	1	05/01/25 13:06	05/23/25 12:12	7439-98-7	
Potassium	**<69.7**	ug/L	500	69.7	1	05/01/25 13:06	05/23/25 12:12	7440-09-7	
Sodium	**<115**	ug/L	500	115	1	05/01/25 13:06	05/23/25 12:12	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Antimony	**<0.12**	ug/L	1.0	0.12	1	05/01/25 12:55	05/16/25 15:45	7440-36-0	
Arsenic	**1.9**	ug/L	1.0	0.13	1	05/01/25 12:55	05/16/25 15:45	7440-38-2	
Cadmium	**<0.050**	ug/L	0.50	0.050	1	05/01/25 12:55	05/16/25 15:45	7440-43-9	
Chromium	**0.34J**	ug/L	1.0	0.30	1	05/01/25 12:55	05/16/25 15:45	7440-47-3	
Selenium	**0.64J**	ug/L	1.0	0.18	1	05/01/25 12:55	05/16/25 15:45	7782-49-2	
Thallium	**<0.14**	ug/L	1.0	0.14	1	05/01/25 12:55	05/16/25 15:45	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Kansas City								
Mercury	**<0.096**	ug/L	0.20	0.096	1	05/16/25 14:23	05/19/25 10:53	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Kansas City								
Alkalinity, Total as CaCO3	**259**	mg/L	20.0	10.5	1		05/13/25 22:10		
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City								
Total Dissolved Solids	**295**	mg/L	10.0	10.0	1		05/06/25 13:15		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City								
Iron, Ferric	**<0.041**	mg/L	0.050	0.041	1		05/28/25 14:32	20074-52-6	
Iron, Ferrous	Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City								
Iron, Ferrous	**0.92**	mg/L	0.20	0.041	1		05/03/25 11:00	15438-31-0	H6

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

Sample: L-LMW-1S **Lab ID: 60473874013** Collected: 04/29/25 13:47 Received: 04/30/25 07:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D Pace Analytical Services - Kansas City								
Sulfide, Total	**<0.016**	mg/L	0.050	0.016	1		05/02/25 14:32	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City								
Chloride	**1.4**	mg/L	1.0	0.53	1		05/23/25 12:14	16887-00-6	
Fluoride	**0.26**	mg/L	0.20	0.12	1		05/23/25 12:14	16984-48-8	
Sulfate	**14.1**	mg/L	1.0	0.55	1		05/23/25 12:14	14808-79-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

Sample: L-LMW-2S **Lab ID: 60473874003** Collected: 04/25/25 12:05 Received: 04/26/25 06:47 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City								
Barium	**44.0**	ug/L	5.0	0.64	1	04/29/25 12:40	05/23/25 12:32	7440-39-3	
Beryllium	**<0.12**	ug/L	1.0	0.12	1	04/29/25 12:40	05/23/25 12:32	7440-41-7	
Boron	**3660**	ug/L	100	6.4	1	04/29/25 12:40	05/23/25 12:32	7440-42-8	
Calcium	**66600**	ug/L	200	26.9	1	04/29/25 12:40	05/23/25 12:32	7440-70-2	
Cobalt	**<1.2**	ug/L	5.0	1.2	1	04/29/25 12:40	05/23/25 12:32	7440-48-4	
Iron	**14.9J**	ug/L	50.0	9.1	1	04/29/25 12:40	05/23/25 12:32	7439-89-6	B
Lead	**<3.8**	ug/L	10.0	3.8	1	04/29/25 12:40	05/23/25 12:32	7439-92-1	
Lithium	**13.8**	ug/L	10.0	3.7	1	04/29/25 12:40	05/23/25 12:32	7439-93-2	
Magnesium	**90.8**	ug/L	50.0	20.1	1	04/29/25 12:40	05/23/25 12:32	7439-95-4	
Manganese	**1.7J**	ug/L	5.0	0.39	1	04/29/25 12:40	05/23/25 12:32	7439-96-5	
Molybdenum	**177**	ug/L	20.0	1.0	1	04/29/25 12:40	05/23/25 12:32	7439-98-7	
Potassium	**9190**	ug/L	500	69.7	1	04/29/25 12:40	05/23/25 12:32	7440-09-7	
Sodium	**64200**	ug/L	500	115	1	04/29/25 12:40	05/23/25 12:32	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Antimony	**<0.12**	ug/L	1.0	0.12	1	04/29/25 12:40	05/16/25 14:09	7440-36-0	
Arsenic	**39.0**	ug/L	1.0	0.13	1	04/29/25 12:40	05/16/25 14:09	7440-38-2	
Cadmium	**0.065J**	ug/L	0.50	0.050	1	04/29/25 12:40	05/16/25 14:09	7440-43-9	
Chromium	**0.42J**	ug/L	1.0	0.30	1	04/29/25 12:40	05/16/25 14:09	7440-47-3	
Selenium	**<0.18**	ug/L	1.0	0.18	1	04/29/25 12:40	05/16/25 14:09	7782-49-2	
Thallium	**<0.14**	ug/L	1.0	0.14	1	04/29/25 12:40	05/16/25 14:09	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Kansas City								
Mercury	**<0.096**	ug/L	0.20	0.096	1	05/12/25 15:00	05/13/25 11:37	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Kansas City								
Alkalinity, Total as CaCO3	**36.0**	mg/L	20.0	10.5	1		05/09/25 13:07		
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City								
Total Dissolved Solids	**490**	mg/L	10.0	10.0	1		05/01/25 13:36		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City								
Iron, Ferric	**<0.041**	mg/L	0.050	0.041	1		05/28/25 09:15	20074-52-6	
Iron, Ferrous	Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City								
Iron, Ferrous	**0.074J**	mg/L	0.20	0.041	1		04/29/25 14:30	15438-31-0	H6

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

Sample: L-LMW-2S **Lab ID: 60473874003** Collected: 04/25/25 12:05 Received: 04/26/25 06:47 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D Pace Analytical Services - Kansas City								
Sulfide, Total	**<0.016**	mg/L	0.050	0.016	1		04/30/25 13:50	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City								
Chloride	**17.7**	mg/L	1.0	0.53	1		05/15/25 18:15	16887-00-6	
Fluoride	**<0.12**	mg/L	0.20	0.12	1		05/15/25 18:15	16984-48-8	
Sulfate	**256**	mg/L	20.0	11.0	20		05/15/25 18:29	14808-79-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

Sample: L-LMW-4S **Lab ID: 60473874014** Collected: 04/28/25 13:30 Received: 04/30/25 07:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City								
Barium	**150**	ug/L	5.0	0.64	1	05/01/25 13:06	05/23/25 12:14	7440-39-3	
Beryllium	**<0.12**	ug/L	1.0	0.12	1	05/01/25 13:06	05/23/25 12:14	7440-41-7	
Boron	**7390**	ug/L	100	6.4	1	05/01/25 13:06	05/23/25 12:14	7440-42-8	
Calcium	**117000**	ug/L	200	26.9	1	05/01/25 13:06	05/23/25 12:14	7440-70-2	
Cobalt	**<1.2**	ug/L	5.0	1.2	1	05/01/25 13:06	05/23/25 12:14	7440-48-4	
Iron	**8610**	ug/L	50.0	9.1	1	05/01/25 13:06	05/23/25 12:14	7439-89-6	
Lead	**<3.8**	ug/L	10.0	3.8	1	05/01/25 13:06	05/23/25 12:14	7439-92-1	
Lithium	**38.0**	ug/L	10.0	3.7	1	05/01/25 13:06	05/23/25 12:14	7439-93-2	
Magnesium	**22200**	ug/L	50.0	20.1	1	05/01/25 13:06	05/23/25 12:14	7439-95-4	
Manganese	**1740**	ug/L	5.0	0.39	1	05/01/25 13:06	05/23/25 12:14	7439-96-5	
Molybdenum	**163**	ug/L	20.0	1.0	1	05/01/25 13:06	05/23/25 12:14	7439-98-7	
Potassium	**6900**	ug/L	500	69.7	1	05/01/25 13:06	05/23/25 12:14	7440-09-7	
Sodium	**86000**	ug/L	500	115	1	05/01/25 13:06	05/23/25 12:14	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Antimony	**<0.12**	ug/L	1.0	0.12	1	05/01/25 12:55	05/16/25 15:51	7440-36-0	
Arsenic	**24.9**	ug/L	1.0	0.13	1	05/01/25 12:55	05/16/25 15:51	7440-38-2	
Cadmium	**0.073J**	ug/L	0.50	0.050	1	05/01/25 12:55	05/16/25 15:51	7440-43-9	
Chromium	**0.41J**	ug/L	1.0	0.30	1	05/01/25 12:55	05/16/25 15:51	7440-47-3	
Selenium	**<0.18**	ug/L	1.0	0.18	1	05/01/25 12:55	05/16/25 15:51	7782-49-2	
Thallium	**<0.14**	ug/L	1.0	0.14	1	05/01/25 12:55	05/16/25 15:51	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Kansas City								
Mercury	**<0.096**	ug/L	0.20	0.096	1	05/16/25 14:23	05/19/25 10:55	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Kansas City								
Alkalinity, Total as CaCO3	**337**	mg/L	20.0	10.5	1		05/12/25 16:33		
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City								
Total Dissolved Solids	**740**	mg/L	13.3	13.3	1		05/05/25 14:48		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City								
Iron, Ferric	**<0.041**	mg/L	0.050	0.041	1		05/28/25 14:32	20074-52-6	
Iron, Ferrous	Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City								
Iron, Ferrous	**12.2**	mg/L	0.50	0.10	1		05/03/25 11:00	15438-31-0	H6

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

Sample: L-LMW-4S **Lab ID: 60473874014** Collected: 04/28/25 13:30 Received: 04/30/25 07:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D Pace Analytical Services - Kansas City								
Sulfide, Total	**0.019J**	mg/L	0.050	0.016	1		05/02/25 14:32	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City								
Chloride	**35.1**	mg/L	20.0	10.5	20		05/23/25 01:31	16887-00-6	B
Fluoride	**<0.12**	mg/L	0.20	0.12	1		05/23/25 01:17	16984-48-8	
Sulfate	**214**	mg/L	20.0	11.0	20		05/23/25 01:31	14808-79-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

Sample: L-LMW-7S **Lab ID: 60473874026** Collected: 04/30/25 16:19 Received: 05/02/25 07:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City								
Barium	**134**	ug/L	5.0	0.64	1	05/06/25 08:42	05/22/25 20:13	7440-39-3	
Beryllium	**<0.12**	ug/L	1.0	0.12	1	05/06/25 08:42	05/22/25 20:13	7440-41-7	
Boron	**5200**	ug/L	100	6.4	1	05/06/25 08:42	05/22/25 20:13	7440-42-8	
Calcium	**81100**	ug/L	200	26.9	1	05/06/25 08:42	05/22/25 20:13	7440-70-2	
Cobalt	**<1.2**	ug/L	5.0	1.2	1	05/06/25 08:42	05/22/25 20:13	7440-48-4	
Iron	**3890**	ug/L	50.0	9.1	1	05/06/25 08:42	05/22/25 20:13	7439-89-6	
Lead	**<3.8**	ug/L	10.0	3.8	1	05/06/25 08:42	05/22/25 20:13	7439-92-1	
Lithium	**27.1**	ug/L	10.0	3.7	1	05/06/25 08:42	05/22/25 20:13	7439-93-2	
Magnesium	**16800**	ug/L	50.0	20.1	1	05/06/25 08:42	05/22/25 20:13	7439-95-4	
Manganese	**641**	ug/L	5.0	0.39	1	05/06/25 08:42	05/22/25 20:13	7439-96-5	
Molybdenum	**164**	ug/L	20.0	1.0	1	05/06/25 08:42	05/22/25 20:13	7439-98-7	
Potassium	**5340**	ug/L	500	69.7	1	05/06/25 08:42	05/22/25 20:13	7440-09-7	
Sodium	**52200**	ug/L	500	115	1	05/06/25 08:42	05/22/25 20:13	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Antimony	**<0.12**	ug/L	1.0	0.12	1	05/06/25 08:42	05/16/25 17:10	7440-36-0	
Arsenic	**21.9**	ug/L	1.0	0.13	1	05/06/25 08:42	05/16/25 17:10	7440-38-2	
Cadmium	**0.084J**	ug/L	0.50	0.050	1	05/06/25 08:42	05/16/25 17:10	7440-43-9	
Chromium	**0.36J**	ug/L	1.0	0.30	1	05/06/25 08:42	05/16/25 17:10	7440-47-3	
Selenium	**<0.18**	ug/L	1.0	0.18	1	05/06/25 08:42	05/16/25 17:10	7782-49-2	
Thallium	**<0.14**	ug/L	1.0	0.14	1	05/06/25 08:42	05/16/25 17:10	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Kansas City								
Mercury	**<0.096**	ug/L	0.20	0.096	1	05/16/25 14:23	05/19/25 11:36	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Kansas City								
Alkalinity, Total as CaCO3	**255**	mg/L	20.0	10.5	1		05/14/25 19:25		
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City								
Total Dissolved Solids	**498**	mg/L	10.0	10.0	1		05/07/25 15:12		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City								
Iron, Ferric	**<0.041**	mg/L	0.050	0.041	1		05/28/25 14:32	20074-52-6	
Iron, Ferrous	Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City								
Iron, Ferrous	**5.4**	mg/L	0.20	0.041	1		05/03/25 11:00	15438-31-0	H6

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

Sample: L-LMW-7S **Lab ID: 60473874026** Collected: 04/30/25 16:19 Received: 05/02/25 07:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D Pace Analytical Services - Kansas City								
Sulfide, Total	**<0.016**	mg/L	0.050	0.016	1		05/05/25 13:33	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City								
Chloride	**9.3**	mg/L	1.0	0.53	1		05/23/25 17:18	16887-00-6	
Fluoride	**0.17J**	mg/L	0.20	0.12	1		05/23/25 17:18	16984-48-8	
Sulfate	**125**	mg/L	20.0	11.0	20		05/23/25 17:32	14808-79-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

Sample: L-LMW-8S **Lab ID: 60473874027** Collected: 04/30/25 14:20 Received: 05/02/25 07:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City								
Barium	**162**	ug/L	5.0	0.64	1	05/06/25 08:42	05/22/25 20:15	7440-39-3	
Beryllium	**<0.12**	ug/L	1.0	0.12	1	05/06/25 08:42	05/22/25 20:15	7440-41-7	
Boron	**647**	ug/L	100	6.4	1	05/06/25 08:42	05/22/25 20:15	7440-42-8	
Calcium	**64300**	ug/L	200	26.9	1	05/06/25 08:42	05/22/25 20:15	7440-70-2	
Cobalt	**<1.2**	ug/L	5.0	1.2	1	05/06/25 08:42	05/22/25 20:15	7440-48-4	
Iron	**2500**	ug/L	50.0	9.1	1	05/06/25 08:42	05/22/25 20:15	7439-89-6	
Lead	**<3.8**	ug/L	10.0	3.8	1	05/06/25 08:42	05/22/25 20:15	7439-92-1	
Lithium	**16.8**	ug/L	10.0	3.7	1	05/06/25 08:42	05/22/25 20:15	7439-93-2	
Magnesium	**10700**	ug/L	50.0	20.1	1	05/06/25 08:42	05/22/25 20:15	7439-95-4	
Manganese	**343**	ug/L	5.0	0.39	1	05/06/25 08:42	05/22/25 20:15	7439-96-5	
Molybdenum	**128**	ug/L	20.0	1.0	1	05/06/25 08:42	05/22/25 20:15	7439-98-7	
Potassium	**3380**	ug/L	500	69.7	1	05/06/25 08:42	05/22/25 20:15	7440-09-7	
Sodium	**18400**	ug/L	500	115	1	05/06/25 08:42	05/22/25 20:15	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Antimony	**<0.12**	ug/L	1.0	0.12	1	05/06/25 08:42	05/16/25 17:12	7440-36-0	
Arsenic	**13.0**	ug/L	1.0	0.13	1	05/06/25 08:42	05/16/25 17:12	7440-38-2	
Cadmium	**0.11J**	ug/L	0.50	0.050	1	05/06/25 08:42	05/16/25 17:12	7440-43-9	
Chromium	**<0.30**	ug/L	1.0	0.30	1	05/06/25 08:42	05/16/25 17:12	7440-47-3	
Selenium	**0.47J**	ug/L	1.0	0.18	1	05/06/25 08:42	05/16/25 17:12	7782-49-2	
Thallium	**<0.14**	ug/L	1.0	0.14	1	05/06/25 08:42	05/16/25 17:12	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Kansas City								
Mercury	**<0.096**	ug/L	0.20	0.096	1	05/16/25 14:23	05/19/25 11:39	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Kansas City								
Alkalinity, Total as CaCO3	**236**	mg/L	20.0	10.5	1		05/14/25 19:31		
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City								
Total Dissolved Solids	**294**	mg/L	10.0	10.0	1		05/07/25 15:12		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City								
Iron, Ferric	**2.4**	mg/L	0.050	0.041	1		05/28/25 14:32	20074-52-6	
Iron, Ferrous	Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City								
Iron, Ferrous	**0.13J**	mg/L	0.20	0.041	1		05/03/25 11:00	15438-31-0	H6

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

Sample: L-LMW-8S **Lab ID: 60473874027** Collected: 04/30/25 14:20 Received: 05/02/25 07:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D Pace Analytical Services - Kansas City								
Sulfide, Total	**<0.016**	mg/L	0.050	0.016	1		05/05/25 13:33	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City								
Chloride	**1.5**	mg/L	1.0	0.53	1		05/23/25 17:46	16887-00-6	
Fluoride	**0.39**	mg/L	0.20	0.12	1		05/23/25 17:46	16984-48-8	
Sulfate	**15.6**	mg/L	1.0	0.55	1		05/23/25 17:46	14808-79-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

Sample: L-BMW-1S **Lab ID: 60473874001** Collected: 04/24/25 11:50 Received: 04/26/25 06:47 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City								
Barium	**329**	ug/L	5.0	0.64	1	04/30/25 07:50	05/23/25 13:18	7440-39-3	
Beryllium	**<0.12**	ug/L	1.0	0.12	1	04/30/25 07:50	05/23/25 13:18	7440-41-7	
Boron	**103**	ug/L	100	6.4	1	04/30/25 07:50	05/23/25 13:18	7440-42-8	
Calcium	**204000**	ug/L	200	26.9	1	04/30/25 07:50	05/23/25 13:18	7440-70-2	
Cobalt	**<1.2**	ug/L	5.0	1.2	1	04/30/25 07:50	05/23/25 13:18	7440-48-4	
Iron	**25700**	ug/L	50.0	9.1	1	04/30/25 07:50	05/23/25 13:18	7439-89-6	
Lead	**<3.8**	ug/L	10.0	3.8	1	04/30/25 07:50	05/23/25 13:18	7439-92-1	
Lithium	**21.5**	ug/L	10.0	3.7	1	04/30/25 07:50	05/23/25 13:18	7439-93-2	
Magnesium	**51800**	ug/L	50.0	20.1	1	04/30/25 07:50	05/23/25 13:18	7439-95-4	
Manganese	**2500**	ug/L	5.0	0.39	1	04/30/25 07:50	05/23/25 13:18	7439-96-5	
Molybdenum	**<1.0**	ug/L	20.0	1.0	1	04/30/25 07:50	05/23/25 13:18	7439-98-7	
Potassium	**5780**	ug/L	500	69.7	1	04/30/25 07:50	05/23/25 13:18	7440-09-7	
Sodium	**20200**	ug/L	500	115	1	04/30/25 07:50	05/23/25 13:18	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Antimony	**<0.12**	ug/L	1.0	0.12	1	04/30/25 07:50	05/16/25 13:44	7440-36-0	
Arsenic	**35.7**	ug/L	1.0	0.13	1	04/30/25 07:50	05/16/25 13:44	7440-38-2	
Cadmium	**<0.050**	ug/L	0.50	0.050	1	04/30/25 07:50	05/16/25 13:44	7440-43-9	
Chromium	**0.58J**	ug/L	1.0	0.30	1	04/30/25 07:50	05/16/25 13:44	7440-47-3	
Selenium	**<0.18**	ug/L	1.0	0.18	1	04/30/25 07:50	05/16/25 13:44	7782-49-2	
Thallium	**<0.14**	ug/L	1.0	0.14	1	04/30/25 07:50	05/16/25 13:44	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Kansas City								
Mercury	**<0.096**	ug/L	0.20	0.096	1	05/12/25 15:00	05/13/25 11:32	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Kansas City								
Alkalinity, Total as CaCO3	**668**	mg/L	20.0	10.5	1		05/08/25 14:11		
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City								
Total Dissolved Solids	**831**	mg/L	13.3	13.3	1		05/01/25 13:34		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City								
Iron, Ferric	**<0.041**	mg/L	0.050	0.041	1		05/28/25 09:15	20074-52-6	
Iron, Ferrous	Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City								
Iron, Ferrous	**34.1**	mg/L	2.5	0.51	1		04/29/25 14:30	15438-31-0	H6

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

Sample: L-BMW-1S **Lab ID: 60473874001** Collected: 04/24/25 11:50 Received: 04/26/25 06:47 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D Pace Analytical Services - Kansas City								
Sulfide, Total	**<0.016**	mg/L	0.050	0.016	1		04/30/25 13:50	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City								
Chloride	**7.2**	mg/L	1.0	0.53	1		05/15/25 17:20	16887-00-6	
Fluoride	**<0.12**	mg/L	0.20	0.12	1		05/15/25 17:20	16984-48-8	
Sulfate	**77.8**	mg/L	10.0	5.5	10		05/15/25 17:34	14808-79-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

Sample: L-BMW-2S **Lab ID: 60473874002** Collected: 04/24/25 14:15 Received: 04/26/25 06:47 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City								
Barium	**292**	ug/L	5.0	0.64	1	04/30/25 07:50	05/23/25 13:20	7440-39-3	
Beryllium	**<0.12**	ug/L	1.0	0.12	1	04/30/25 07:50	05/23/25 13:20	7440-41-7	
Boron	**56.7J**	ug/L	100	6.4	1	04/30/25 07:50	05/23/25 13:20	7440-42-8	
Calcium	**143000**	ug/L	200	26.9	1	04/30/25 07:50	05/23/25 13:20	7440-70-2	
Cobalt	**<1.2**	ug/L	5.0	1.2	1	04/30/25 07:50	05/23/25 13:20	7440-48-4	
Iron	**<9.1**	ug/L	50.0	9.1	1	04/30/25 07:50	05/23/25 13:20	7439-89-6	
Lead	**<3.8**	ug/L	10.0	3.8	1	04/30/25 07:50	05/23/25 13:20	7439-92-1	
Lithium	**23.5**	ug/L	10.0	3.7	1	04/30/25 07:50	05/23/25 13:20	7439-93-2	
Magnesium	**23000**	ug/L	50.0	20.1	1	04/30/25 07:50	05/23/25 13:20	7439-95-4	
Manganese	**2.6J**	ug/L	5.0	0.39	1	04/30/25 07:50	05/23/25 13:20	7439-96-5	
Molybdenum	**1.3J**	ug/L	20.0	1.0	1	04/30/25 07:50	05/23/25 13:20	7439-98-7	
Potassium	**6070**	ug/L	500	69.7	1	04/30/25 07:50	05/23/25 13:20	7440-09-7	
Sodium	**4550**	ug/L	500	115	1	04/30/25 07:50	05/23/25 13:20	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Antimony	**0.24J**	ug/L	1.0	0.12	1	04/30/25 07:50	05/16/25 13:47	7440-36-0	
Arsenic	**0.48J**	ug/L	1.0	0.13	1	04/30/25 07:50	05/16/25 13:47	7440-38-2	
Cadmium	**0.062J**	ug/L	0.50	0.050	1	04/30/25 07:50	05/16/25 13:47	7440-43-9	
Chromium	**0.34J**	ug/L	1.0	0.30	1	04/30/25 07:50	05/16/25 13:47	7440-47-3	
Selenium	**0.26J**	ug/L	1.0	0.18	1	04/30/25 07:50	05/16/25 13:47	7782-49-2	
Thallium	**<0.14**	ug/L	1.0	0.14	1	04/30/25 07:50	05/16/25 13:47	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Kansas City								
Mercury	**<0.096**	ug/L	0.20	0.096	1	05/12/25 15:00	05/13/25 11:34	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Kansas City								
Alkalinity, Total as CaCO3	**372**	mg/L	20.0	10.5	1		05/08/25 14:17		
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City								
Total Dissolved Solids	**531**	mg/L	10.0	10.0	1		05/01/25 13:34		
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City								
Iron, Ferric	**<0.041**	mg/L	0.050	0.041	1		05/28/25 09:15	20074-52-6	
Iron, Ferrous	Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City								
Iron, Ferrous	**<0.041**	mg/L	0.20	0.041	1		04/29/25 14:30	15438-31-0	H6

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

Sample: L-BMW-2S **Lab ID: 60473874002** Collected: 04/24/25 14:15 Received: 04/26/25 06:47 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D Pace Analytical Services - Kansas City								
Sulfide, Total	**<0.016**	mg/L	0.050	0.016	1		04/30/25 13:50	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City								
Chloride	**3.5**	mg/L	1.0	0.53	1		05/15/25 17:48	16887-00-6	
Fluoride	**<0.12**	mg/L	0.20	0.12	1		05/15/25 17:48	16984-48-8	
Sulfate	**71.6**	mg/L	10.0	5.5	10		05/15/25 18:02	14808-79-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

QC Batch: 934803
QC Batch Method: EPA 7470
Analysis Method: EPA 7470
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60473874001, 60473874002, 60473874003, 60473874004

METHOD BLANK: 3704599 Matrix: Water
Associated Lab Samples: 60473874001, 60473874002, 60473874003, 60473874004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	<0.096	0.20	0.096	05/13/25 11:23	

LABORATORY CONTROL SAMPLE: 3704600

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.1	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3704601 3704602

Parameter	Units	60474264004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	5	5	2.1	2.2	42	43	75-125	3	20	M1

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

QC Batch: 934804
QC Batch Method: EPA 7470
Analysis Method: EPA 7470
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60473874005, 60473874006, 60473874007, 60473874008, 60473874009

METHOD BLANK: 3704603 Matrix: Water
Associated Lab Samples: 60473874005, 60473874006, 60473874007, 60473874008, 60473874009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	<0.096	0.20	0.096	05/13/25 12:27	

LABORATORY CONTROL SAMPLE: 3704604

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.0	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3704605 3704606

Parameter	Units	60473874005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	<0.096	5	5	5.1	5.0	101	99	75-125	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3704607 3704608

Parameter	Units	60474050002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L		5	5	5.1	5.0	100	99	75-125	2	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

QC Batch: 935430
QC Batch Method: EPA 7470
Analysis Method: EPA 7470
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60473874012, 60473874013, 60473874014, 60473874015, 60473874016, 60473874017, 60473874018, 60473874019, 60473874020, 60473874021, 60473874022, 60473874025, 60473874026, 60473874027, 60473874028, 60473874029

METHOD BLANK: 3707831
Matrix: Water
Associated Lab Samples: 60473874012, 60473874013, 60473874014, 60473874015, 60473874016, 60473874017, 60473874018, 60473874019, 60473874020, 60473874021, 60473874022, 60473874025, 60473874026, 60473874027, 60473874028, 60473874029

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	<0.096	0.20	0.096	05/19/25 10:41	

LABORATORY CONTROL SAMPLE: 3707832

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.0	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3707833 3707834

Parameter	Units	60473874017 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	<0.096	5	5	4.9	4.8	98	96	75-125	2	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

QC Batch: 935431
QC Batch Method: EPA 7470
Analysis Method: EPA 7470
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60473874030, 60473874031, 60473874032

METHOD BLANK: 3707835 Matrix: Water
Associated Lab Samples: 60473874030, 60473874031, 60473874032

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	<0.096	0.20	0.096	05/19/25 11:50	

LABORATORY CONTROL SAMPLE: 3707836

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.1	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3707837 3707838

Parameter	Units	60473870005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L		5	5	5.0	4.9	99	98	75-125	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3707839 3707840

Parameter	Units	60474363004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	<0.096	5	5	5.0	5.0	99	100	75-125	1	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

QC Batch: 933297
QC Batch Method: EPA 200.7
Analysis Method: EPA 200.7
Analysis Description: 200.7 Metals, Total
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60473874001, 60473874002

METHOD BLANK: 3697620 Matrix: Water
Associated Lab Samples: 60473874001, 60473874002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Barium	ug/L	<0.64	5.0	0.64	05/23/25 12:51	
Beryllium	ug/L	<0.12	1.0	0.12	05/23/25 12:51	
Boron	ug/L	<6.4	100	6.4	05/23/25 12:51	
Calcium	ug/L	<26.9	200	26.9	05/23/25 12:51	
Cobalt	ug/L	<1.2	5.0	1.2	05/23/25 12:51	
Iron	ug/L	<9.1	50.0	9.1	05/23/25 12:51	
Lead	ug/L	<3.8	10.0	3.8	05/23/25 12:51	
Lithium	ug/L	<3.7	10.0	3.7	05/23/25 12:51	
Magnesium	ug/L	<20.1	50.0	20.1	05/23/25 12:51	
Manganese	ug/L	<0.39	5.0	0.39	05/23/25 12:51	
Molybdenum	ug/L	<1.0	20.0	1.0	05/23/25 12:51	
Potassium	ug/L	<69.7	500	69.7	05/23/25 12:51	
Sodium	ug/L	<115	500	115	05/23/25 12:51	

LABORATORY CONTROL SAMPLE: 3697621

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	1000	972	97	85-115	
Beryllium	ug/L	1000	989	99	85-115	
Boron	ug/L	1000	914	91	85-115	
Calcium	ug/L	10000	10000	100	85-115	
Cobalt	ug/L	1000	997	100	85-115	
Iron	ug/L	10000	9960	100	85-115	
Lead	ug/L	1000	999	100	85-115	
Lithium	ug/L	1000	973	97	85-115	
Magnesium	ug/L	10000	9700	97	85-115	
Manganese	ug/L	1000	984	98	85-115	
Molybdenum	ug/L	1000	983	98	85-115	
Potassium	ug/L	10000	9760	98	85-115	
Sodium	ug/L	10000	9640	96	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3697622 3697623

Parameter	Units	60473868003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	ug/L	112	1000	1000	1070	1080	96	96	70-130	1	20	
Beryllium	ug/L	<0.12	1000	1000	994	1010	99	101	70-130	2	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3697622 3697623

Parameter	Units	60473868003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Boron	ug/L	11800	1000	1000	12600	12600	78	78	70-130	0	20	
Calcium	ug/L	104000	10000	10000	112000	112000	81	80	70-130	0	20	
Cobalt	ug/L	<1.2	1000	1000	984	998	98	100	70-130	1	20	
Iron	ug/L	17.2J	10000	10000	9880	9950	99	99	70-130	1	20	
Lead	ug/L	<3.8	1000	1000	967	977	97	98	70-130	1	20	
Lithium	ug/L	26.0	1000	1000	980	993	95	97	70-130	1	20	
Magnesium	ug/L	36.2J	10000	10000	9420	9440	94	94	70-130	0	20	
Manganese	ug/L	12.2	1000	1000	982	999	97	99	70-130	2	20	
Molybdenum	ug/L	554	1000	1000	1540	1560	98	101	70-130	2	20	
Potassium	ug/L	17200	10000	10000	26700	27000	95	97	70-130	1	20	
Sodium	ug/L	96600	10000	10000	104000	104000	79	78	70-130	0	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

QC Batch: 933298
QC Batch Method: EPA 200.7
Analysis Method: EPA 200.7
Analysis Description: 200.7 Metals, Total
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60473874003, 60473874004, 60473874005, 60473874006, 60473874007, 60473874008, 60473874009

METHOD BLANK: 3697624 Matrix: Water
Associated Lab Samples: 60473874003, 60473874004, 60473874005, 60473874006, 60473874007, 60473874008, 60473874009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Barium	ug/L	<0.64	5.0	0.64	05/23/25 12:29	
Beryllium	ug/L	<0.12	1.0	0.12	05/23/25 12:29	
Boron	ug/L	<6.4	100	6.4	05/23/25 12:29	
Calcium	ug/L	<26.9	200	26.9	05/23/25 12:29	
Cobalt	ug/L	<1.2	5.0	1.2	05/23/25 12:29	
Iron	ug/L	28.7J	50.0	9.1	05/23/25 12:29	
Lead	ug/L	<3.8	10.0	3.8	05/23/25 12:29	
Lithium	ug/L	<3.7	10.0	3.7	05/23/25 12:29	
Magnesium	ug/L	<20.1	50.0	20.1	05/23/25 12:29	
Manganese	ug/L	<0.39	5.0	0.39	05/23/25 12:29	
Molybdenum	ug/L	<1.0	20.0	1.0	05/23/25 12:29	
Potassium	ug/L	<69.7	500	69.7	05/23/25 12:29	
Sodium	ug/L	<115	500	115	05/23/25 12:29	

LABORATORY CONTROL SAMPLE: 3697625

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	1000	983	98	85-115	
Beryllium	ug/L	1000	1000	100	85-115	
Boron	ug/L	1000	929	93	85-115	
Calcium	ug/L	10000	10100	101	85-115	
Cobalt	ug/L	1000	1010	101	85-115	
Iron	ug/L	10000	10000	100	85-115	
Lead	ug/L	1000	1010	101	85-115	
Lithium	ug/L	1000	976	98	85-115	
Magnesium	ug/L	10000	9880	99	85-115	
Manganese	ug/L	1000	1000	100	85-115	
Molybdenum	ug/L	1000	999	100	85-115	
Potassium	ug/L	10000	9910	99	85-115	
Sodium	ug/L	10000	9780	98	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3697626 3697627

Parameter	Units	60473874005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	ug/L	1410	1000	1000	2330	2310	92	90	70-130	1	20	
Beryllium	ug/L	<0.12	1000	1000	1000	998	100	100	70-130	1	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3697626 3697627

Parameter	Units	60473874005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Boron	ug/L	64.2J	1000	1000	982	964	92	90	70-130	2	20	
Calcium	ug/L	136000	10000	10000	141000	140000	54	40	70-130	1	20	M1
Cobalt	ug/L	<1.2	1000	1000	972	969	97	97	70-130	0	20	
Iron	ug/L	8510	10000	10000	18100	17900	96	94	70-130	1	20	
Lead	ug/L	<3.8	1000	1000	978	967	98	97	70-130	1	20	
Lithium	ug/L	24.9	1000	1000	997	996	97	97	70-130	0	20	
Magnesium	ug/L	33600	10000	10000	42000	41300	84	77	70-130	2	20	
Manganese	ug/L	264	1000	1000	1230	1220	96	95	70-130	1	20	
Molybdenum	ug/L	1.5J	1000	1000	996	990	99	99	70-130	1	20	
Potassium	ug/L	4390	10000	10000	14200	14100	98	97	70-130	0	20	
Sodium	ug/L	10400	10000	10000	19600	19400	93	90	70-130	1	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

QC Batch: 933650
QC Batch Method: EPA 200.7
Analysis Method: EPA 200.7
Analysis Description: 200.7 Metals, Total
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60473874012, 60473874013, 60473874014, 60473874015, 60473874016

METHOD BLANK: 3698971 Matrix: Water
Associated Lab Samples: 60473874012, 60473874013, 60473874014, 60473874015, 60473874016

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Barium	ug/L	<0.64	5.0	0.64	05/23/25 11:23	
Beryllium	ug/L	<0.12	1.0	0.12	05/23/25 11:23	
Boron	ug/L	<6.4	100	6.4	05/23/25 11:23	
Calcium	ug/L	<26.9	200	26.9	05/23/25 11:23	
Cobalt	ug/L	<1.2	5.0	1.2	05/23/25 11:23	
Iron	ug/L	<9.1	50.0	9.1	05/23/25 11:23	
Lead	ug/L	<3.8	10.0	3.8	05/23/25 11:23	
Lithium	ug/L	<3.7	10.0	3.7	05/23/25 11:23	
Magnesium	ug/L	<20.1	50.0	20.1	05/23/25 11:23	
Manganese	ug/L	<0.39	5.0	0.39	05/23/25 11:23	
Molybdenum	ug/L	<1.0	20.0	1.0	05/23/25 11:23	
Potassium	ug/L	<69.7	500	69.7	05/23/25 11:23	
Sodium	ug/L	<115	500	115	05/23/25 11:23	

LABORATORY CONTROL SAMPLE: 3698972

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	1000	974	97	85-115	
Beryllium	ug/L	1000	995	100	85-115	
Boron	ug/L	1000	920	92	85-115	
Calcium	ug/L	10000	10000	100	85-115	
Cobalt	ug/L	1000	1000	100	85-115	
Iron	ug/L	10000	9990	100	85-115	
Lead	ug/L	1000	1000	100	85-115	
Lithium	ug/L	1000	972	97	85-115	
Magnesium	ug/L	10000	9760	98	85-115	
Manganese	ug/L	1000	994	99	85-115	
Molybdenum	ug/L	1000	993	99	85-115	
Potassium	ug/L	10000	9770	98	85-115	
Sodium	ug/L	10000	9730	97	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3698973 3698974

Parameter	Units	60474050002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	ug/L		1000	1000	1170	1150	99	97	70-130	1	20	
Beryllium	ug/L		1000	1000	1020	1020	102	102	70-130	0	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3698973 3698974

Parameter	Units	60474050002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Boron	ug/L	104	1000	1000	1040	1040	94	93	70-130	0	20	
Calcium	ug/L	193000	10000	10000	202000	196000	89	28	70-130	3	20	M1
Cobalt	ug/L		1000	1000	997	996	99	99	70-130	0	20	
Iron	ug/L	1580	10000	10000	12100	11900	105	103	70-130	1	20	
Lead	ug/L		1000	1000	994	983	99	98	70-130	1	20	
Lithium	ug/L		1000	1000	1040	1040	99	99	70-130	1	20	
Magnesium	ug/L	43600	10000	10000	53300	51900	97	83	70-130	3	20	
Manganese	ug/L	3130	1000	1000	4070	4010	95	89	70-130	1	20	
Molybdenum	ug/L		1000	1000	1020	1020	102	102	70-130	0	20	
Potassium	ug/L	6720	10000	10000	16800	16700	101	99	70-130	1	20	
Sodium	ug/L	10500	10000	10000	20300	20000	98	95	70-130	2	20	

MATRIX SPIKE SAMPLE: 3698975

Parameter	Units	60474050003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Barium	ug/L		1000	1200	98	70-130	
Beryllium	ug/L		1000	1030	103	70-130	
Boron	ug/L	83.1J	1000	1030	95	70-130	
Calcium	ug/L	121000	10000	130000	91	70-130	
Cobalt	ug/L		1000	1000	100	70-130	
Iron	ug/L	85.2	10000	10200	101	70-130	
Lead	ug/L		1000	1010	101	70-130	
Lithium	ug/L		1000	1020	99	70-130	
Magnesium	ug/L	21900	10000	31700	97	70-130	
Manganese	ug/L	70.3	1000	1080	101	70-130	
Molybdenum	ug/L		1000	1030	103	70-130	
Potassium	ug/L	5230	10000	15500	103	70-130	
Sodium	ug/L	5240	10000	15200	100	70-130	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

QC Batch: 933653
QC Batch Method: EPA 200.7
Analysis Method: EPA 200.7
Analysis Description: 200.7 Metals, Total
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60473874017, 60473874018, 60473874019, 60473874020, 60473874021, 60473874022, 60473874025

METHOD BLANK: 3698990 Matrix: Water
Associated Lab Samples: 60473874017, 60473874018, 60473874019, 60473874020, 60473874021, 60473874022, 60473874025

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Barium	ug/L	<0.64	5.0	0.64	05/23/25 10:48	
Beryllium	ug/L	<0.12	1.0	0.12	05/23/25 10:48	
Boron	ug/L	<6.4	100	6.4	05/23/25 10:48	
Calcium	ug/L	<26.9	200	26.9	05/23/25 10:48	
Cobalt	ug/L	<1.2	5.0	1.2	05/23/25 10:48	
Iron	ug/L	<9.1	50.0	9.1	05/23/25 10:48	
Lead	ug/L	<3.8	10.0	3.8	05/23/25 10:48	
Lithium	ug/L	<3.7	10.0	3.7	05/23/25 10:48	
Magnesium	ug/L	<20.1	50.0	20.1	05/23/25 10:48	
Manganese	ug/L	<0.39	5.0	0.39	05/23/25 10:48	
Molybdenum	ug/L	<1.0	20.0	1.0	05/23/25 10:48	
Potassium	ug/L	<69.7	500	69.7	05/23/25 10:48	
Sodium	ug/L	<115	500	115	05/23/25 10:48	

LABORATORY CONTROL SAMPLE: 3698991

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	1000	965	97	85-115	
Beryllium	ug/L	1000	993	99	85-115	
Boron	ug/L	1000	901	90	85-115	
Calcium	ug/L	10000	9900	99	85-115	
Cobalt	ug/L	1000	999	100	85-115	
Iron	ug/L	10000	10000	100	85-115	
Lead	ug/L	1000	996	100	85-115	
Lithium	ug/L	1000	963	96	85-115	
Magnesium	ug/L	10000	9570	96	85-115	
Manganese	ug/L	1000	986	99	85-115	
Molybdenum	ug/L	1000	993	99	85-115	
Potassium	ug/L	10000	9620	96	85-115	
Sodium	ug/L	10000	9610	96	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3698992 3698993

Parameter	Units	60473874017 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	ug/L	78.7	1000	1000	1070	1040	99	96	70-130	3	20	
Beryllium	ug/L	<0.12	1000	1000	1030	997	103	100	70-130	3	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3698992 3698993

Parameter	Units	60473874017 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Boron	ug/L	5440	1000	1000	6410	6250	98	82	70-130	3	20	
Calcium	ug/L	132000	10000	10000	142000	138000	100	60	70-130	3	20	M1
Cobalt	ug/L	<1.2	1000	1000	999	969	100	97	70-130	3	20	
Iron	ug/L	6680	10000	10000	16800	16200	101	96	70-130	3	20	
Lead	ug/L	<3.8	1000	1000	998	969	100	97	70-130	3	20	
Lithium	ug/L	29.3	1000	1000	1000	985	97	96	70-130	2	20	
Magnesium	ug/L	30100	10000	10000	40100	39200	100	91	70-130	2	20	
Manganese	ug/L	448	1000	1000	1450	1410	100	96	70-130	3	20	
Molybdenum	ug/L	266	1000	1000	1300	1260	103	99	70-130	3	20	
Potassium	ug/L	5280	10000	10000	15300	15100	100	98	70-130	1	20	
Sodium	ug/L	39100	10000	10000	48800	47800	98	87	70-130	2	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

QC Batch: 934063
QC Batch Method: EPA 200.7
Analysis Method: EPA 200.7
Analysis Description: 200.7 Metals, Total
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60473874026, 60473874027, 60473874028, 60473874029, 60473874030, 60473874031, 60473874032

METHOD BLANK: 3700770 Matrix: Water
Associated Lab Samples: 60473874026, 60473874027, 60473874028, 60473874029, 60473874030, 60473874031, 60473874032

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Barium	ug/L	<0.64	5.0	0.64	05/22/25 19:50	
Beryllium	ug/L	<0.12	1.0	0.12	05/22/25 19:50	
Boron	ug/L	<6.4	100	6.4	05/22/25 19:50	
Calcium	ug/L	34.5J	200	26.9	05/22/25 19:50	
Cobalt	ug/L	<1.2	5.0	1.2	05/22/25 19:50	
Iron	ug/L	20.1J	50.0	9.1	05/22/25 19:50	
Lead	ug/L	<3.8	10.0	3.8	05/22/25 19:50	
Lithium	ug/L	<3.7	10.0	3.7	05/22/25 19:50	
Magnesium	ug/L	<20.1	50.0	20.1	05/22/25 19:50	
Manganese	ug/L	1.0J	5.0	0.39	05/22/25 19:50	
Molybdenum	ug/L	<1.0	20.0	1.0	05/22/25 19:50	
Potassium	ug/L	<69.7	500	69.7	05/22/25 19:50	
Sodium	ug/L	<115	500	115	05/22/25 19:50	

LABORATORY CONTROL SAMPLE: 3700771

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	1000	954	95	85-115	
Beryllium	ug/L	1000	982	98	85-115	
Boron	ug/L	1000	883	88	85-115	
Calcium	ug/L	10000	9850	98	85-115	
Cobalt	ug/L	1000	1010	101	85-115	
Iron	ug/L	10000	9810	98	85-115	
Lead	ug/L	1000	974	97	85-115	
Lithium	ug/L	1000	952	95	85-115	
Magnesium	ug/L	10000	9580	96	85-115	
Manganese	ug/L	1000	994	99	85-115	
Molybdenum	ug/L	1000	973	97	85-115	
Potassium	ug/L	10000	9470	95	85-115	
Sodium	ug/L	10000	9630	96	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3700773 3700774

Parameter	Units	60473870005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	ug/L		1000	1000	1160	1160	97	97	70-130	0	20	
Beryllium	ug/L		1000	1000	990	1020	99	102	70-130	3	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3700773 3700774

Parameter	Units	60473870005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Boron	ug/L	299	1000	1000	1200	1200	90	90	70-130	0	20	
Calcium	ug/L	95200	10000	10000	105000	103000	99	83	70-130	2	20	
Cobalt	ug/L		1000	1000	985	1010	99	101	70-130	3	20	
Iron	ug/L	13900	10000	10000	23900	24000	100	101	70-130	0	20	
Lead	ug/L		1000	1000	964	980	96	98	70-130	2	20	
Lithium	ug/L		1000	1000	983	1000	96	98	70-130	2	20	
Magnesium	ug/L	17600	10000	10000	27100	26700	96	92	70-130	1	20	
Manganese	ug/L	1070	1000	1000	2010	2040	94	97	70-130	2	20	
Molybdenum	ug/L		1000	1000	996	1030	98	101	70-130	3	20	
Potassium	ug/L	4170	10000	10000	13700	14000	96	98	70-130	2	20	
Sodium	ug/L	5790	10000	10000	15500	15500	97	97	70-130	0	20	

MATRIX SPIKE SAMPLE: 3700775

Parameter	Units	60473874028 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	214	1000	1150	94	70-130	
Beryllium	ug/L	<0.12	1000	1000	100	70-130	
Boron	ug/L	76.6J	1000	964	89	70-130	
Calcium	ug/L	136000	10000	143000	62	70-130	M1
Cobalt	ug/L	<1.2	1000	988	99	70-130	
Iron	ug/L	34.3J	10000	9780	97	70-130	
Lead	ug/L	<3.8	1000	961	96	70-130	
Lithium	ug/L	29.1	1000	986	96	70-130	
Magnesium	ug/L	24900	10000	33700	89	70-130	
Manganese	ug/L	151	1000	1130	98	70-130	
Molybdenum	ug/L	<1.0	1000	988	99	70-130	
Potassium	ug/L	4740	10000	14400	97	70-130	
Sodium	ug/L	10900	10000	20200	93	70-130	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

QC Batch: 933296
QC Batch Method: EPA 200.8
Analysis Method: EPA 200.8
Analysis Description: 200.8 MET
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60473874001, 60473874002

METHOD BLANK: 3697616 Matrix: Water
Associated Lab Samples: 60473874001, 60473874002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	ug/L	<0.12	1.0	0.12	05/16/25 13:04	
Arsenic	ug/L	<0.13	1.0	0.13	05/16/25 13:04	
Cadmium	ug/L	<0.050	0.50	0.050	05/16/25 13:04	
Chromium	ug/L	<0.30	1.0	0.30	05/16/25 13:04	
Selenium	ug/L	<0.18	1.0	0.18	05/16/25 13:04	
Thallium	ug/L	<0.14	1.0	0.14	05/16/25 13:04	

LABORATORY CONTROL SAMPLE: 3697617

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	40	39.0	97	85-115	
Arsenic	ug/L	40	39.6	99	85-115	
Cadmium	ug/L	40	40.1	100	85-115	
Chromium	ug/L	40	40.2	100	85-115	
Selenium	ug/L	40	39.7	99	85-115	
Thallium	ug/L	40	38.6	96	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3697618 3697619

Parameter	Units	60473868003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	ug/L	<0.12	40	40	38.5	38.8	96	97	70-130	1	20	
Arsenic	ug/L	15.6	40	40	55.5	56.3	100	102	70-130	2	20	
Cadmium	ug/L	0.21J	40	40	37.7	37.7	94	94	70-130	0	20	
Chromium	ug/L	0.36J	40	40	39.3	39.2	97	97	70-130	0	20	
Selenium	ug/L	<0.18	40	40	37.5	37.8	93	94	70-130	1	20	
Thallium	ug/L	<0.14	40	40	39.9	40.1	100	100	70-130	1	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

QC Batch: 933299
QC Batch Method: EPA 200.8
Analysis Method: EPA 200.8
Analysis Description: 200.8 MET
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60473874003, 60473874004, 60473874005, 60473874006, 60473874007, 60473874008, 60473874009

METHOD BLANK: 3697628 Matrix: Water
Associated Lab Samples: 60473874003, 60473874004, 60473874005, 60473874006, 60473874007, 60473874008, 60473874009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	ug/L	<0.12	1.0	0.12	05/16/25 13:53	
Arsenic	ug/L	<0.13	1.0	0.13	05/16/25 13:53	
Cadmium	ug/L	<0.050	0.50	0.050	05/16/25 13:53	
Chromium	ug/L	<0.30	1.0	0.30	05/16/25 13:53	
Selenium	ug/L	<0.18	1.0	0.18	05/16/25 13:53	
Thallium	ug/L	<0.14	1.0	0.14	05/16/25 13:53	

LABORATORY CONTROL SAMPLE: 3697629

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	40	39.2	98	85-115	
Arsenic	ug/L	40	39.9	100	85-115	
Cadmium	ug/L	40	40.2	100	85-115	
Chromium	ug/L	40	40.0	100	85-115	
Selenium	ug/L	40	40.4	101	85-115	
Thallium	ug/L	40	38.6	97	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3697632 3697633

Parameter	Units	60473874005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	ug/L	<0.12	40	40	39.1	38.9	98	97	70-130	1	20	
Arsenic	ug/L	1.1	40	40	40.7	40.6	99	99	70-130	0	20	
Cadmium	ug/L	<0.050	40	40	38.7	38.4	97	96	70-130	1	20	
Chromium	ug/L	0.65J	40	40	40.4	40.3	99	99	70-130	0	20	
Selenium	ug/L	<0.18	40	40	38.5	37.9	96	95	70-130	2	20	
Thallium	ug/L	<0.14	40	40	40.8	40.3	102	101	70-130	1	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

QC Batch: 933651
QC Batch Method: EPA 200.8
Analysis Method: EPA 200.8
Analysis Description: 200.8 MET
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60473874012, 60473874013, 60473874014, 60473874015, 60473874016

METHOD BLANK: 3698981 Matrix: Water
Associated Lab Samples: 60473874012, 60473874013, 60473874014, 60473874015, 60473874016

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	ug/L	<0.12	1.0	0.12	05/16/25 14:40	
Arsenic	ug/L	<0.13	1.0	0.13	05/16/25 14:40	
Cadmium	ug/L	<0.050	0.50	0.050	05/16/25 14:40	
Chromium	ug/L	<0.30	1.0	0.30	05/16/25 14:40	
Selenium	ug/L	<0.18	1.0	0.18	05/16/25 14:40	
Thallium	ug/L	<0.14	1.0	0.14	05/16/25 14:40	

LABORATORY CONTROL SAMPLE: 3698982

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	40	39.3	98	85-115	
Arsenic	ug/L	40	39.8	100	85-115	
Cadmium	ug/L	40	39.8	99	85-115	
Chromium	ug/L	40	39.4	98	85-115	
Selenium	ug/L	40	40.9	102	85-115	
Thallium	ug/L	40	37.8	94	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3698983 3698984

Parameter	Units	60474050002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	ug/L		40	40	38.7	38.1	97	95	70-130	2	20	
Arsenic	ug/L		40	40	40.2	40.6	97	98	70-130	1	20	
Cadmium	ug/L		40	40	38.1	37.9	95	94	70-130	1	20	
Chromium	ug/L		40	40	39.3	38.3	97	95	70-130	3	20	
Selenium	ug/L		40	40	38.8	38.2	96	94	70-130	2	20	
Thallium	ug/L		40	40	40.0	39.8	100	99	70-130	1	20	

MATRIX SPIKE SAMPLE: 3698985

Parameter	Units	60473870004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L		40	39.0	97	70-130	
Arsenic	ug/L		40	40.6	100	70-130	
Cadmium	ug/L		40	38.5	96	70-130	
Chromium	ug/L		40	40.2	99	70-130	
Selenium	ug/L		40	39.6	98	70-130	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

MATRIX SPIKE SAMPLE: 3698985

Parameter	Units	60473870004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Thallium	ug/L		40	39.7	99	70-130	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

QC Batch: 933657
QC Batch Method: EPA 200.8
Analysis Method: EPA 200.8
Analysis Description: 200.8 MET
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60473874017, 60473874018, 60473874019, 60473874020, 60473874021, 60473874022, 60473874025

METHOD BLANK: 3699000 Matrix: Water
Associated Lab Samples: 60473874017, 60473874018, 60473874019, 60473874020, 60473874021, 60473874022, 60473874025

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	ug/L	<0.12	1.0	0.12	05/16/25 16:02	
Arsenic	ug/L	<0.13	1.0	0.13	05/16/25 16:02	
Cadmium	ug/L	<0.050	0.50	0.050	05/16/25 16:02	
Chromium	ug/L	<0.30	1.0	0.30	05/16/25 16:02	
Selenium	ug/L	<0.18	1.0	0.18	05/16/25 16:02	
Thallium	ug/L	<0.14	1.0	0.14	05/16/25 16:02	

LABORATORY CONTROL SAMPLE: 3699001

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	40	38.6	96	85-115	
Arsenic	ug/L	40	39.2	98	85-115	
Cadmium	ug/L	40	39.3	98	85-115	
Chromium	ug/L	40	38.5	96	85-115	
Selenium	ug/L	40	41.2	103	85-115	
Thallium	ug/L	40	37.5	94	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3699002 3699003

Parameter	Units	60473874017 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	ug/L	<0.12	40	40	38.2	38.4	95	96	70-130	0	20	
Arsenic	ug/L	0.19J	40	40	39.2	38.8	97	97	70-130	1	20	
Cadmium	ug/L	0.10J	40	40	37.9	37.5	94	94	70-130	1	20	
Chromium	ug/L	0.49J	40	40	38.7	38.1	95	94	70-130	1	20	
Selenium	ug/L	<0.18	40	40	38.4	38.1	96	95	70-130	1	20	
Thallium	ug/L	<0.14	40	40	39.2	39.3	98	98	70-130	0	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

QC Batch: 934064
QC Batch Method: EPA 200.8
Analysis Method: EPA 200.8
Analysis Description: 200.8 MET
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60473874026, 60473874027, 60473874028, 60473874029, 60473874030, 60473874031, 60473874032

METHOD BLANK: 3700776 Matrix: Water
Associated Lab Samples: 60473874026, 60473874027, 60473874028, 60473874029, 60473874030, 60473874031, 60473874032

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	ug/L	<0.12	1.0	0.12	05/16/25 16:40	
Arsenic	ug/L	<0.13	1.0	0.13	05/16/25 16:40	
Cadmium	ug/L	<0.050	0.50	0.050	05/16/25 16:40	
Chromium	ug/L	<0.30	1.0	0.30	05/16/25 16:40	
Selenium	ug/L	<0.18	1.0	0.18	05/16/25 16:40	
Thallium	ug/L	<0.14	1.0	0.14	05/16/25 16:40	

LABORATORY CONTROL SAMPLE: 3700777

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	40	39.6	99	85-115	
Arsenic	ug/L	40	40.4	101	85-115	
Cadmium	ug/L	40	40.5	101	85-115	
Chromium	ug/L	40	39.5	99	85-115	
Selenium	ug/L	40	41.7	104	85-115	
Thallium	ug/L	40	38.3	96	85-115	

MATRIX SPIKE SAMPLE: 3700778

Parameter	Units	60473874029 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	<0.12	40	38.8	97	70-130	
Arsenic	ug/L	0.46J	40	39.7	98	70-130	
Cadmium	ug/L	0.12J	40	38.6	96	70-130	
Chromium	ug/L	0.31J	40	38.7	96	70-130	
Selenium	ug/L	0.82J	40	39.6	97	70-130	
Thallium	ug/L	<0.14	40	39.4	98	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3700779 3700780

Parameter	Units	60473870005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	ug/L		40	40	39.6	39.1	99	98	70-130	1	20	
Arsenic	ug/L		40	40	55.8	56.5	98	99	70-130	1	20	
Cadmium	ug/L		40	40	39.0	38.8	97	97	70-130	0	20	
Chromium	ug/L		40	40	39.8	39.6	99	98	70-130	0	20	
Selenium	ug/L		40	40	40.3	40.3	101	101	70-130	0	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3700779 3700780

Parameter	Units	60473870005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Thallium	ug/L		40	40	39.5	39.2	99	98	70-130	1	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

QC Batch: 934386
QC Batch Method: SM 2320B
Analysis Method: SM 2320B
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60473874001, 60473874002, 60473874004, 60473874006, 60473874007, 60473874008, 60473874009

METHOD BLANK: 3702446 Matrix: Water
Associated Lab Samples: 60473874001, 60473874002, 60473874004, 60473874006, 60473874007, 60473874008, 60473874009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<10.5	20.0	10.5	05/08/25 13:29	

LABORATORY CONTROL SAMPLE: 3702447

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	500	499	100	90-110	

SAMPLE DUPLICATE: 3702448

Parameter	Units	60473866001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	661	657	0	10	

SAMPLE DUPLICATE: 3702449

Parameter	Units	60474532001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	253	253	0	10	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

QC Batch: 934523
QC Batch Method: SM 2320B
Analysis Method: SM 2320B
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60473874003, 60473874005

METHOD BLANK: 3703239 Matrix: Water
Associated Lab Samples: 60473874003, 60473874005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<10.5	20.0	10.5	05/09/25 11:51	

LABORATORY CONTROL SAMPLE: 3703240

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	500	499	100	90-110	

SAMPLE DUPLICATE: 3703241

Parameter	Units	60473939004 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	208	207	1	10	

SAMPLE DUPLICATE: 3703242

Parameter	Units	60473868003 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	90.1	89.0	1	10	

SAMPLE DUPLICATE: 3703243

Parameter	Units	60473874005 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	467	471	1	10	

SAMPLE DUPLICATE: 3703244

Parameter	Units	60473953003 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	98.9	97.9	1	10	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

QC Batch: 934756
QC Batch Method: SM 2320B
Analysis Method: SM 2320B
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60473874012

METHOD BLANK: 3704361 Matrix: Water
Associated Lab Samples: 60473874012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<10.5	20.0	10.5	05/12/25 11:58	

LABORATORY CONTROL SAMPLE: 3704362

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	500	499	100	90-110	

SAMPLE DUPLICATE: 3704363

Parameter	Units	60473941001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	231	229	1	10	

SAMPLE DUPLICATE: 3704364

Parameter	Units	60473953001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	33.8	33.0	2	10	

SAMPLE DUPLICATE: 3704365

Parameter	Units	60474050002 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	603	616	2	10	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

QC Batch: 934821
QC Batch Method: SM 2320B
Analysis Method: SM 2320B
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60473874014, 60473874015, 60473874016, 60473874017, 60473874019, 60473874020

METHOD BLANK: 3704708 Matrix: Water
Associated Lab Samples: 60473874014, 60473874015, 60473874016, 60473874017, 60473874019, 60473874020

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<10.5	20.0	10.5	05/12/25 16:18	

LABORATORY CONTROL SAMPLE: 3704709

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	500	503	101	90-110	

SAMPLE DUPLICATE: 3704710

Parameter	Units	60473874014 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	337	337	0	10	

SAMPLE DUPLICATE: 3704711

Parameter	Units	60473874017 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	424	426	0	10	

SAMPLE DUPLICATE: 3704712

Parameter	Units	60474657012 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	820	791	4	10	

SAMPLE DUPLICATE: 3704713

Parameter	Units	60474657014 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	577	575	0	10	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

QC Batch: 934892
QC Batch Method: SM 2320B
Analysis Method: SM 2320B
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60473874013, 60473874018, 60473874021, 60473874022, 60473874025

METHOD BLANK: 3705033 Matrix: Water
Associated Lab Samples: 60473874013, 60473874018, 60473874021, 60473874022, 60473874025

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<10.5	20.0	10.5	05/13/25 19:36	

LABORATORY CONTROL SAMPLE: 3705034

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	500	516	103	90-110	

SAMPLE DUPLICATE: 3705035

Parameter	Units	60474053004 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	359	349	3	10	

SAMPLE DUPLICATE: 3705036

Parameter	Units	60474053004 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	359	351	2	10	

SAMPLE DUPLICATE: 3705037

Parameter	Units	60473868010 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	488	489	0	10	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

QC Batch: 935136
QC Batch Method: SM 2320B
Analysis Method: SM 2320B
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60473874026, 60473874027, 60473874028, 60473874029, 60473874030, 60473874031, 60473874032

METHOD BLANK: 3706237 Matrix: Water
Associated Lab Samples: 60473874026, 60473874027, 60473874028, 60473874029, 60473874030, 60473874031, 60473874032

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<10.5	20.0	10.5	05/14/25 19:11	

LABORATORY CONTROL SAMPLE: 3706238

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	500	512	102	90-110	

SAMPLE DUPLICATE: 3706239

Parameter	Units	60473870005 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	319	319	0	10	

SAMPLE DUPLICATE: 3706240

Parameter	Units	60474215001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	126	130	3	10	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

QC Batch: 933633
QC Batch Method: SM 2540C
Analysis Method: SM 2540C
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60473874001, 60473874002, 60473874003, 60473874004, 60473874005, 60473874006, 60473874007, 60473874008, 60473874009

METHOD BLANK: 3698856 Matrix: Water
Associated Lab Samples: 60473874001, 60473874002, 60473874003, 60473874004, 60473874005, 60473874006, 60473874007, 60473874008, 60473874009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<5.0	5.0	5.0	05/01/25 13:33	

LABORATORY CONTROL SAMPLE: 3698857

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	1000	1040	104	80-120	

SAMPLE DUPLICATE: 3698858

Parameter	Units	60473868003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	795	805	1	10	

SAMPLE DUPLICATE: 3698859

Parameter	Units	60473874005 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	529	530	0	10	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

QC Batch: 933972
QC Batch Method: SM 2540C
Analysis Method: SM 2540C
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60473874012, 60473874014, 60473874015, 60473874016, 60473874017, 60473874019, 60473874020

METHOD BLANK: 3700467 Matrix: Water
Associated Lab Samples: 60473874012, 60473874014, 60473874015, 60473874016, 60473874017, 60473874019, 60473874020

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<5.0	5.0	5.0	05/05/25 14:48	

LABORATORY CONTROL SAMPLE: 3700468

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	1000	1040	104	80-120	

SAMPLE DUPLICATE: 3700469

Parameter	Units	60473874017 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	651	645	1	10	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

QC Batch: 934108
QC Batch Method: SM 2540C
Analysis Method: SM 2540C
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60473874013, 60473874018, 60473874021, 60473874022, 60473874025

METHOD BLANK: 3700872 Matrix: Water
Associated Lab Samples: 60473874013, 60473874018, 60473874021, 60473874022, 60473874025

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<5.0	5.0	5.0	05/06/25 13:14	

LABORATORY CONTROL SAMPLE: 3700873

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	1000	1040	104	80-120	

SAMPLE DUPLICATE: 3700874

Parameter	Units	60474043001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	160	154	3	10	

SAMPLE DUPLICATE: 3700875

Parameter	Units	60474053004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	629	620	1	10	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

QC Batch: 934269
QC Batch Method: SM 2540C
Analysis Method: SM 2540C
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60473874026, 60473874027, 60473874028, 60473874029, 60473874030, 60473874031, 60473874032

METHOD BLANK: 3701859 Matrix: Water
Associated Lab Samples: 60473874026, 60473874027, 60473874028, 60473874029, 60473874030, 60473874031, 60473874032

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<5.0	5.0	5.0	05/07/25 15:10	

LABORATORY CONTROL SAMPLE: 3701860

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	1000	1030	103	80-120	

SAMPLE DUPLICATE: 3701861

Parameter	Units	60474170001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	3270	3230	1	10	

SAMPLE DUPLICATE: 3701862

Parameter	Units	60473870005 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	370	377	2	10	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

QC Batch: 933311
QC Batch Method: SM 3500-Fe B#4
Analysis Method: SM 3500-Fe B#4
Analysis Description: Iron, Ferrous
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60473874001, 60473874002, 60473874003, 60473874004, 60473874005, 60473874006, 60473874007, 60473874008, 60473874009

METHOD BLANK: 3697668 Matrix: Water
Associated Lab Samples: 60473874001, 60473874002, 60473874003, 60473874004, 60473874005, 60473874006, 60473874007, 60473874008, 60473874009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Iron, Ferrous	mg/L	<0.041	0.20	0.041	04/29/25 14:30	H6

LABORATORY CONTROL SAMPLE: 3697669

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Ferrous	mg/L	2	2.0	102	90-110	H6

SAMPLE DUPLICATE: 3697670

Parameter	Units	60473874009 Result	Dup Result	RPD	Max RPD	Qualifiers
Iron, Ferrous	mg/L	8.3	8.4	0	20	H6

SAMPLE DUPLICATE: 3697671

Parameter	Units	60473874005 Result	Dup Result	RPD	Max RPD	Qualifiers
Iron, Ferrous	mg/L	12.0	12.0	0	20	H6

SAMPLE DUPLICATE: 3697672

Parameter	Units	60473868003 Result	Dup Result	RPD	Max RPD	Qualifiers
Iron, Ferrous	mg/L	0.10J	0.10J		20	H6

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

QC Batch: 933924
QC Batch Method: SM 3500-Fe B#4
Analysis Method: SM 3500-Fe B#4
Analysis Description: Iron, Ferrous
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60473874012, 60473874013, 60473874014, 60473874015, 60473874016, 60473874017, 60473874018, 60473874019, 60473874020, 60473874021, 60473874022, 60473874025

METHOD BLANK: 3700280 Matrix: Water
Associated Lab Samples: 60473874012, 60473874013, 60473874014, 60473874015, 60473874016, 60473874017, 60473874018, 60473874019, 60473874020, 60473874021, 60473874022, 60473874025

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Iron, Ferrous	mg/L	<0.041	0.20	0.041	05/03/25 11:00	H6

LABORATORY CONTROL SAMPLE: 3700281

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Ferrous	mg/L	2	2.0	102	90-110	H6

SAMPLE DUPLICATE: 3700282

Parameter	Units	60473868001 Result	Dup Result	RPD	Max RPD	Qualifiers
Iron, Ferrous	mg/L	28.8	28.8	0	20	H6

SAMPLE DUPLICATE: 3700283

Parameter	Units	60473874017 Result	Dup Result	RPD	Max RPD	Qualifiers
Iron, Ferrous	mg/L	9.4	9.4	0	20	H6

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

QC Batch: 933925
QC Batch Method: SM 3500-Fe B#4
Analysis Method: SM 3500-Fe B#4
Analysis Description: Iron, Ferrous
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60473874026, 60473874027, 60473874028, 60473874029, 60473874030, 60473874031, 60473874032

METHOD BLANK: 3700284 Matrix: Water
Associated Lab Samples: 60473874026, 60473874027, 60473874028, 60473874029, 60473874030, 60473874031, 60473874032

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Iron, Ferrous	mg/L	<0.041	0.20	0.041	05/03/25 11:00	H6

LABORATORY CONTROL SAMPLE: 3700285

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Ferrous	mg/L	2	2.0	102	90-110	H6

SAMPLE DUPLICATE: 3700286

Parameter	Units	60473868018 Result	Dup Result	RPD	Max RPD	Qualifiers
Iron, Ferrous	mg/L	5.8	5.8	0	20	H6

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

QC Batch: 933493
QC Batch Method: SM 4500-S-2 D
Analysis Method: SM 4500-S-2 D
Analysis Description: 4500S2D Sulfide, Total
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60473874001, 60473874002, 60473874003, 60473874004, 60473874005, 60473874006, 60473874007, 60473874008, 60473874009

METHOD BLANK: 3698276 Matrix: Water
Associated Lab Samples: 60473874001, 60473874002, 60473874003, 60473874004, 60473874005, 60473874006, 60473874007, 60473874008, 60473874009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide, Total	mg/L	<0.016	0.050	0.016	04/30/25 13:50	

LABORATORY CONTROL SAMPLE: 3698277

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	0.5	0.50	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3698279 3698280

Parameter	Units	60473868005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide, Total	mg/L	<0.016	0.5	0.5	0.49	0.47	96	93	75-125	4	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3698283 3698284

Parameter	Units	60473868003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide, Total	mg/L	0.52	0.5	0.5	0.94	0.95	85	86	75-125	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3698286 3698287

Parameter	Units	60473874005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide, Total	mg/L	0.016J	0.5	0.5	0.49	0.47	95	90	75-125	5	20	

SAMPLE DUPLICATE: 3698278

Parameter	Units	60473868005 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	<0.016	<0.016		20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

SAMPLE DUPLICATE: 3698281

Parameter	Units	60473868006 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	<0.016	<0.016		20	

SAMPLE DUPLICATE: 3698282

Parameter	Units	60473868003 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	0.52	0.53	2	20	

SAMPLE DUPLICATE: 3698285

Parameter	Units	60473874005 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	0.016J	0.016J		20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

QC Batch: 933805
QC Batch Method: SM 4500-S-2 D
Analysis Method: SM 4500-S-2 D
Analysis Description: 4500S2D Sulfide, Total
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60473874012, 60473874013, 60473874014, 60473874015, 60473874016, 60473874017, 60473874018, 60473874019, 60473874020

METHOD BLANK: 3699587 Matrix: Water
Associated Lab Samples: 60473874012, 60473874013, 60473874014, 60473874015, 60473874016, 60473874017, 60473874018, 60473874019, 60473874020

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide, Total	mg/L	<0.016	0.050	0.016	05/02/25 14:32	

LABORATORY CONTROL SAMPLE: 3699588

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	0.5	0.45	91	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3699590 3699591

Parameter	Units	60473874012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide, Total	mg/L	0.018J	0.5	0.5	0.48	0.48	92	93	75-125	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3699594 3699595

Parameter	Units	60473874017 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide, Total	mg/L	0.042J	0.5	0.5	0.52	0.54	96	99	75-125	2	20	

SAMPLE DUPLICATE: 3699589

Parameter	Units	60473874012 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	0.018J	0.018J		20	

SAMPLE DUPLICATE: 3699592

Parameter	Units	60473874014 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	0.019J	0.018J		20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

SAMPLE DUPLICATE: 3699593

Parameter	Units	60473874017 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	0.042J	0.041J		20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

QC Batch: 933806
QC Batch Method: SM 4500-S-2 D
Analysis Method: SM 4500-S-2 D
Analysis Description: 4500S2D Sulfide, Total
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60473874021, 60473874022, 60473874025

METHOD BLANK: 3699600 Matrix: Water
Associated Lab Samples: 60473874021, 60473874022, 60473874025

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide, Total	mg/L	<0.016	0.050	0.016	05/02/25 14:32	

LABORATORY CONTROL SAMPLE: 3699601

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	0.5	0.46	91	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3699603 3699604

Parameter	Units	60473874021 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide, Total	mg/L	<0.016	0.5	0.5	0.49	0.49	97	98	75-125	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3699607 3699608

Parameter	Units	60474053004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide, Total	mg/L	0.050	0.5	0.5	0.51	0.52	92	95	75-125	3	20	

SAMPLE DUPLICATE: 3699602

Parameter	Units	60473874021 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	<0.016	<0.016		20	

SAMPLE DUPLICATE: 3699605

Parameter	Units	60473874022 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	<0.016	<0.016		20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

SAMPLE DUPLICATE: 3699606

Parameter	Units	60474053004 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	0.050	0.047J		20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

QC Batch: 933967
QC Batch Method: SM 4500-S-2 D
Analysis Method: SM 4500-S-2 D
Analysis Description: 4500S2D Sulfide, Total
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60473874026, 60473874027, 60473874028, 60473874029, 60473874030, 60473874031, 60473874032

METHOD BLANK: 3700439 Matrix: Water
Associated Lab Samples: 60473874026, 60473874027, 60473874028, 60473874029, 60473874030, 60473874031, 60473874032

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide, Total	mg/L	<0.016	0.050	0.016	05/05/25 13:33	

LABORATORY CONTROL SAMPLE: 3700440

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	0.5	0.52	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3700442 3700443

Parameter	Units	60473868017 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide, Total	mg/L	0.035J	0.5	0.5	0.56	0.54	105	101	75-125	4	20	

SAMPLE DUPLICATE: 3700441

Parameter	Units	60473868017 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	0.035J	0.035J		20	

SAMPLE DUPLICATE: 3700444

Parameter	Units	60473868016 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	<0.016	<0.016		20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

QC Batch: 935142
QC Batch Method: EPA 300.0
Analysis Method: EPA 300.0
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60473874001, 60473874002, 60473874003, 60473874004, 60473874005, 60473874006, 60473874007, 60473874008, 60473874009

METHOD BLANK: 3706253 Matrix: Water
Associated Lab Samples: 60473874001, 60473874002, 60473874003, 60473874004, 60473874005, 60473874006, 60473874007, 60473874008, 60473874009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	<0.53	1.0	0.53	05/15/25 05:11	
Fluoride	mg/L	<0.12	0.20	0.12	05/15/25 05:11	
Sulfate	mg/L	<0.55	1.0	0.55	05/15/25 05:11	

LABORATORY CONTROL SAMPLE: 3706254

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.8	96	90-110	
Fluoride	mg/L	2.5	2.5	100	90-110	
Sulfate	mg/L	5	5.1	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3706255 3706256

Parameter	Units	60473868003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	27.6	100	100	113	114	85	86	80-120	1	15	
Fluoride	mg/L	<0.12	2.5	2.5	2.2	2.5	87	99	80-120	13	15	
Sulfate	mg/L	407	250	250	669	657	105	100	80-120	2	15	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3706257 3706258

Parameter	Units	60473874005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	3.8	5	5	8.5	8.0	93	85	80-120	5	15	
Fluoride	mg/L	<0.12	2.5	2.5	2.7	2.4	106	94	80-120	11	15	
Sulfate	mg/L	20.7	10	10	30.7	30.5	100	98	80-120	1	15	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

QC Batch: 936168
QC Batch Method: EPA 300.0
Analysis Method: EPA 300.0
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60473874012, 60473874014, 60473874015, 60473874016, 60473874019, 60473874020, 60473874029

METHOD BLANK: 3711067 Matrix: Water
Associated Lab Samples: 60473874012, 60473874014, 60473874015, 60473874016, 60473874019, 60473874020, 60473874029

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	0.59J	1.0	0.53	05/22/25 16:59	
Fluoride	mg/L	<0.12	0.20	0.12	05/22/25 16:59	
Sulfate	mg/L	<0.55	1.0	0.55	05/22/25 16:59	

LABORATORY CONTROL SAMPLE: 3711068

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.7	95	90-110	
Fluoride	mg/L	2.5	2.5	99	90-110	
Sulfate	mg/L	5	4.9	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3711069 3711070

Parameter	Units	60474050002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	4.4	5	5	9.5	8.8	101	88	80-120	7	15	
Fluoride	mg/L	<0.12	2.5	2.5	2.7	2.4	107	93	80-120	14	15	
Sulfate	mg/L	73.8	100	100	176	179	102	105	80-120	2	15	

MATRIX SPIKE SAMPLE: 3711071

Parameter	Units	60474050005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	0.59J	5	4.9	85	80-120	
Fluoride	mg/L	<0.12	2.5	2.5	101	80-120	
Sulfate	mg/L	<0.55	5	4.9	93	80-120	

SAMPLE DUPLICATE: 3711201

Parameter	Units	60474050002 Result	Dup Result	RPD	Max RPD	Qualifiers
Chloride	mg/L	4.4	4.3	2	15	
Fluoride	mg/L	<0.12	<0.12		15	
Sulfate	mg/L	73.8	72.6	2	15	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

QC Batch: 936176
QC Batch Method: EPA 300.0
Analysis Method: EPA 300.0
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60473874013, 60473874017, 60473874018, 60473874021, 60473874022, 60473874025, 60473874026, 60473874027, 60473874028

METHOD BLANK: 3711108 Matrix: Water
Associated Lab Samples: 60473874013, 60473874017, 60473874018, 60473874021, 60473874022, 60473874025, 60473874026, 60473874027, 60473874028

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	<0.53	1.0	0.53	05/23/25 06:08	
Fluoride	mg/L	<0.12	0.20	0.12	05/23/25 06:08	
Sulfate	mg/L	<0.55	1.0	0.55	05/23/25 06:08	

LABORATORY CONTROL SAMPLE: 3711109

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.8	95	90-110	
Fluoride	mg/L	2.5	2.6	102	90-110	
Sulfate	mg/L	5	5.0	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3711236 3711237

Parameter	Units	60473874017 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	9.9	5	5	14.5	15.4	92	109	80-120	6	15	
Fluoride	mg/L	<0.12	2.5	2.5	2.4	2.8	95	109	80-120	13	15	
Sulfate	mg/L	112	100	100	208	208	96	96	80-120	0	15	

MATRIX SPIKE SAMPLE: 3711239

Parameter	Units	60473874022 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	<0.53	5	4.8	97	80-120	
Fluoride	mg/L	<0.12	2.5	2.6	103	80-120	
Sulfate	mg/L	<0.55	5	5.0	95	80-120	

SAMPLE DUPLICATE: 3711238

Parameter	Units	60473874017 Result	Dup Result	RPD	Max RPD	Qualifiers
Chloride	mg/L	9.9	9.9	0	15	
Fluoride	mg/L	<0.12	<0.12		15	
Sulfate	mg/L	112	109	3	15	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

QC Batch: 936490
QC Batch Method: EPA 300.0
Analysis Method: EPA 300.0
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60473874030, 60473874031, 60473874032

METHOD BLANK: 3712529 Matrix: Water
Associated Lab Samples: 60473874030, 60473874031, 60473874032

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	<0.53	1.0	0.53	05/27/25 22:13	
Fluoride	mg/L	<0.12	0.20	0.12	05/27/25 22:13	
Sulfate	mg/L	<0.55	1.0	0.55	05/27/25 22:13	

LABORATORY CONTROL SAMPLE: 3712530

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	5.1	102	90-110	
Fluoride	mg/L	2.5	2.5	99	90-110	
Sulfate	mg/L	5	5.2	105	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3712531 3712532

Parameter	Units	60473870005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	1.5	5	5	6.6	6.4	102	99	80-120	3	15	
Fluoride	mg/L	0.25	2.5	2.5	2.9	2.8	105	100	80-120	4	15	
Sulfate	mg/L	15.4	5	5	21.4	21.1	119	114	80-120	1	15	E

SAMPLE DUPLICATE: 3712533

Parameter	Units	60473870005 Result	Dup Result	RPD	Max RPD	Qualifiers
Chloride	mg/L	1.5	1.5	0	15	
Fluoride	mg/L	0.25	0.25	3	15	
Sulfate	mg/L	15.4	15.4	0	15	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

Sample: L-MW-33(D) **Lab ID: 60473874004** Collected: 04/24/25 15:25 Received: 04/26/25 06:47 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
		Pace Analytical Services - Greensburg				
Radium-226	EPA 903.1	**0.257 ± 0.667 (1.21) C:NA T:97%**	pCi/L	05/15/25 14:46	13982-63-3	
		Pace Analytical Services - Greensburg				
Radium-228	EPA 904.0	**1.19 ± 0.490 (0.769) C:80% T:87%**	pCi/L	05/14/25 11:30	15262-20-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

Sample: L-TP-1D **Lab ID: 60473874005** Collected: 04/25/25 09:50 Received: 04/26/25 06:47 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
		Pace Analytical Services - Greensburg				
Radium-226	EPA 903.1	**1.53 ± 0.684 (0.858) C:NA T:91%**	pCi/L	05/20/25 15:52	13982-63-3	
		Pace Analytical Services - Greensburg				
Radium-228	EPA 904.0	**1.59 ± 0.570 (0.813) C:73% T:86%**	pCi/L	05/19/25 15:04	15262-20-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

Sample: L-TP-3M **Lab ID: 60473874006** Collected: 04/24/25 12:45 Received: 04/26/25 06:47 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
		Pace Analytical Services - Greensburg				
Radium-226	EPA 903.1	**0.212 ± 0.674 (1.22) C:NA T:90%**	pCi/L	05/20/25 15:52	13982-63-3	
		Pace Analytical Services - Greensburg				
Radium-228	EPA 904.0	**1.30 ± 0.619 (1.09) C:73% T:84%**	pCi/L	05/19/25 15:05	15262-20-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

Sample: L-TP-3D **Lab ID: 60473874007** Collected: 04/24/25 13:50 Received: 04/26/25 06:47 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.113 ± 0.542 (1.02) C:NA T:92%**	pCi/L	05/21/25 14:21	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.710 ± 0.390 (0.704) C:83% T:85%**	pCi/L	05/20/25 11:27	15262-20-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

Sample: L-TP-4D **Lab ID: 60473874008** Collected: 04/24/25 10:45 Received: 04/26/25 06:47 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.846 ± 0.661 (0.982) C:NA T:94%**	pCi/L	05/21/25 14:21	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**1.11 ± 0.443 (0.674) C:79% T:84%**	pCi/L	05/20/25 11:28	15262-20-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

Sample: L-CA-DUP-1 **Lab ID: 60473874009** Collected: 04/24/25 08:00 Received: 04/26/25 06:47 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.166 ± 0.776 (1.41) C:NA T:89%**	pCi/L	05/21/25 14:21	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.922 ± 0.420 (0.693) C:78% T:85%**	pCi/L	05/20/25 11:28	15262-20-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

Sample: L-MS-1 **Lab ID: 60473874010** Collected: 04/25/25 09:50 Received: 04/26/25 06:47 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**112.81 %REC ± NA (NA) C:NA T:NA**	pCi/L	05/20/25 15:52	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**68.32 %REC ± NA (NA) C:NA T:NA**	pCi/L	05/19/25 15:04	15262-20-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

Sample: L-MSD-1 **Lab ID: 60473874011** Collected: 04/25/25 09:50 Received: 04/26/25 06:47 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**87.69 %REC 25.07RPD ± NA (NA) C:NA T:NA**	pCi/L	05/20/25 15:52	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**82.13 %REC 18.36RPD ± NA (NA) C:NA T:NA**	pCi/L	05/19/25 15:04	15262-20-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

Sample: L-AMW-8 **Lab ID: 60473874012** Collected: 04/28/25 14:10 Received: 04/30/25 07:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**1.22 ± 0.779 (1.11) C:NA T:95%**	pCi/L	05/21/25 14:21	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**1.57 ± 0.608 (0.977) C:78% T:84%**	pCi/L	05/20/25 11:28	15262-20-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

Sample: L-MW-24 **Lab ID: 60473874015** Collected: 04/28/25 15:40 Received: 04/30/25 07:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
		Pace Analytical Services - Greensburg				
Radium-226	EPA 903.1	**-0.154 ± 0.690 (1.33) C:NA T:95%**	pCi/L	05/21/25 14:21	13982-63-3	
		Pace Analytical Services - Greensburg				
Radium-228	EPA 904.0	**0.239 ± 0.387 (0.841) C:84% T:88%**	pCi/L	05/20/25 11:28	15262-20-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

Sample: L-MW-34(D) **Lab ID: 60473874016** Collected: 04/28/25 12:10 Received: 04/30/25 07:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
		Pace Analytical Services - Greensburg				
Radium-226	EPA 903.1	**0.159 ± 0.742 (1.35) C:NA T:95%**	pCi/L	05/21/25 14:33	13982-63-3	
		Pace Analytical Services - Greensburg				
Radium-228	EPA 904.0	**1.75 ± 0.661 (1.02) C:81% T:69%**	pCi/L	05/20/25 11:28	15262-20-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

Sample: L-MW-35(D) **Lab ID: 60473874017** Collected: 04/28/25 13:50 Received: 04/30/25 07:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.599 ± 0.433 (0.603) C:NA T:95%**	pCi/L	05/21/25 14:33	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**1.45 ± 0.542 (0.820) C:77% T:82%**	pCi/L	05/20/25 11:29	15262-20-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

Sample: L-AM-1S **Lab ID: 60473874018** Collected: 04/29/25 10:45 Received: 04/30/25 07:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.112 ± 0.694 (1.29) C:NA T:95%**	pCi/L	05/21/25 14:33	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.723 ± 0.396 (0.725) C:83% T:92%**	pCi/L	05/20/25 11:29	15262-20-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

Sample: L-CA-DUP-2 **Lab ID: 60473874019** Collected: 04/28/25 00:00 Received: 04/30/25 07:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.366 ± 0.587 (1.02) C:NA T:88%**	pCi/L	05/21/25 14:33	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**1.89 ± 0.640 (0.925) C:82% T:83%**	pCi/L	05/20/25 11:29	15262-20-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

Sample: L-CA-DUP-3 **Lab ID: 60473874020** Collected: 04/28/25 00:00 Received: 04/30/25 07:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.000 ± 0.675 (1.29) C:NA T:92%**	pCi/L	05/21/25 14:33	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**1.16 ± 0.449 (0.697) C:90% T:85%**	pCi/L	05/20/25 11:29	15262-20-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

Sample: L-CA-FB-1 **Lab ID: 60473874021** Collected: 04/29/25 09:10 Received: 04/30/25 07:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.000 ± 0.457 (0.902) C:NA T:98%**	pCi/L	05/21/25 14:33	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**1.38 ± 0.480 (0.690) C:82% T:93%**	pCi/L	05/20/25 11:29	15262-20-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

Sample: L-CA-FB-2 **Lab ID: 60473874022** Collected: 04/29/25 09:55 Received: 04/30/25 07:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.751 ± 0.390 (0.136) C:NA T:92%**	pCi/L	05/21/25 14:33	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.845 ± 0.410 (0.708) C:80% T:91%**	pCi/L	05/20/25 11:29	15262-20-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

Sample: L-MS-2 **Lab ID: 60473874023** Collected: 04/28/25 13:50 Received: 04/30/25 07:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**84.42 %REC ± NA (NA) C:NA T:NA**	pCi/L	05/21/25 14:46	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**82.06 %REC ± NA (NA) C:NA T:NA**	pCi/L	05/20/25 11:29	15262-20-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

Sample: L-MSD-2 **Lab ID: 60473874024** Collected: 04/28/25 13:50 Received: 04/30/25 07:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**115.54 %REC 31.13RPD ± NA (NA) C:NA T:NA**	pCi/L	05/21/25 16:07	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**70.17 %REC 15.62RPD ± NA (NA) C:NA T:NA**	pCi/L	05/20/25 11:29	15262-20-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

Sample: L-AM-1D **Lab ID: 60473874025** Collected: 04/29/25 09:25 Received: 04/30/25 07:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.176 ± 0.474 (0.879) C:NA T:92%**	pCi/L	05/21/25 14:46	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.835 ± 0.444 (0.783) C:85% T:80%**	pCi/L	05/20/25 11:29	15262-20-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

Sample: L-S-1 **Lab ID: 60473874029** Collected: 04/30/25 11:10 Received: 05/02/25 07:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.110 ± 0.629 (1.17) C:NA T:100%**	pCi/L	05/21/25 13:43	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.654 ± 0.452 (0.875) C:71% T:90%**	pCi/L	05/19/25 15:05	15262-20-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

Sample: L-TP-2M **Lab ID: 60473874030** Collected: 04/30/25 10:30 Received: 05/02/25 07:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
		Pace Analytical Services - Greensburg				
Radium-226	EPA 903.1	**-0.179 ± 0.510 (1.08) C:NA T:94%**	pCi/L	05/21/25 13:43	13982-63-3	
		Pace Analytical Services - Greensburg				
Radium-228	EPA 904.0	**1.19 ± 0.582 (1.02) C:67% T:88%**	pCi/L	05/19/25 15:06	15262-20-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

Sample: L-TP-2D **Lab ID: 60473874031** Collected: 04/30/25 11:19 Received: 05/02/25 07:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**-0.244 ± 0.340 (0.861) C:NA T:88%**	pCi/L	05/21/25 13:43	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**1.18 ± 0.682 (1.28) C:64% T:84%**	pCi/L	05/19/25 15:06	15262-20-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

Sample: L-CA-FB-3 **Lab ID: 60473874032** Collected: 04/30/25 11:15 Received: 05/02/25 07:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.117 ± 0.428 (0.823) C:NA T:98%**	pCi/L	05/21/25 13:43	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**-0.151 ± 0.425 (1.03) C:62% T:86%**	pCi/L	05/19/25 15:06	15262-20-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

Sample: L-MW-26 **Lab ID: 60473874028** Collected: 04/30/25 12:22 Received: 05/02/25 07:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**-0.325 ± 0.611 (1.31) C:NA T:89%**	pCi/L	05/21/25 13:30	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.751 ± 0.517 (1.00) C:67% T:90%**	pCi/L	05/19/25 15:05	15262-20-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

Sample: L-LMW-1S **Lab ID: 60473874013** Collected: 04/29/25 13:47 Received: 04/30/25 07:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.112 ± 0.538 (1.02) C:NA T:94%**	pCi/L	05/21/25 14:21	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.535 ± 0.440 (0.890) C:76% T:91%**	pCi/L	05/20/25 11:28	15262-20-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

Sample: L-LMW-2S **Lab ID: 60473874003** Collected: 04/25/25 12:05 Received: 04/26/25 06:47 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
		Pace Analytical Services - Greensburg				
Radium-226	EPA 903.1	**0.000 ± 0.776 (1.46) C:NA T:87%**	pCi/L	05/20/25 15:52	13982-63-3	
		Pace Analytical Services - Greensburg				
Radium-228	EPA 904.0	**0.654 ± 0.548 (1.11) C:77% T:80%**	pCi/L	05/19/25 15:04	15262-20-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

Sample: L-LMW-4S **Lab ID: 60473874014** Collected: 04/28/25 13:30 Received: 04/30/25 07:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.0548 ± 0.653 (1.23) C:NA T:90%**	pCi/L	05/21/25 14:21	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.607 ± 0.463 (0.923) C:79% T:85%**	pCi/L	05/20/25 11:28	15262-20-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

Sample: L-LMW-7S **Lab ID: 60473874026** Collected: 04/30/25 16:19 Received: 05/02/25 07:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.329 ± 0.672 (1.19) C:NA T:82%**	pCi/L	05/21/25 13:30	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.419 ± 0.486 (1.02) C:60% T:91%**	pCi/L	05/19/25 15:05	15262-20-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

Sample: L-LMW-8S **Lab ID: 60473874027** Collected: 04/30/25 14:20 Received: 05/02/25 07:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**-0.119 ± 0.466 (0.990) C:NA T:95%**	pCi/L	05/21/25 13:30	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.572 ± 0.526 (1.08) C:67% T:89%**	pCi/L	05/19/25 15:05	15262-20-1	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

Sample: L-BMW-1S **Lab ID: 60473874001** Collected: 04/24/25 11:50 Received: 04/26/25 06:47 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
		Pace Analytical Services - Greensburg				
Radium-226	EPA 903.1	**0.706 ± 0.793 (1.30) C:NA T:92%**	pCi/L	05/20/25 15:40	13982-63-3	
		Pace Analytical Services - Greensburg				
Radium-228	EPA 904.0	**1.45 ± 0.560 (0.855) C:72% T:88%**	pCi/L	05/19/25 15:04	15262-20-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

Sample: L-BMW-2S **Lab ID: 60473874002** Collected: 04/24/25 14:15 Received: 04/26/25 06:47 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.226 ± 0.769 (1.39) C:NA T:86%**	pCi/L	05/20/25 15:40	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.591 ± 0.376 (0.692) C:74% T:86%**	pCi/L	05/19/25 15:04	15262-20-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL - RADIOCHEMISTRY

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

QC Batch: 744311
QC Batch Method: EPA 904.0
Analysis Method: EPA 904.0
Analysis Description: 904.0 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 60473874004

METHOD BLANK: 3623055 Matrix: Water
Associated Lab Samples: 60473874004

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.571 ± 0.400 (0.775) C:75% T:83%	pCi/L	05/14/25 11:29	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL - RADIOCHEMISTRY

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

QC Batch: 744308
QC Batch Method: EPA 903.1
Analysis Method: EPA 903.1
Analysis Description: 903.1 Radium-226
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 60473874004

METHOD BLANK: 3623049 Matrix: Water
Associated Lab Samples: 60473874004

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.378 ± 0.320 (0.397) C:NA T:88%	pCi/L	05/15/25 14:33	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL - RADIOCHEMISTRY

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

QC Batch: 743755
QC Batch Method: EPA 904.0
Analysis Method: EPA 904.0
Analysis Description: 904.0 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 60473874001, 60473874002, 60473874003, 60473874005, 60473874006, 60473874010, 60473874011

METHOD BLANK: 3619724 Matrix: Water
Associated Lab Samples: 60473874001, 60473874002, 60473874003, 60473874005, 60473874006, 60473874010, 60473874011

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.470 ± 0.320 (0.606) C:81% T:90%	pCi/L	05/19/25 11:39	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL - RADIOCHEMISTRY

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

QC Batch: 743753 Analysis Method: EPA 903.1
QC Batch Method: EPA 903.1 Analysis Description: 903.1 Radium-226
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 60473874001, 60473874002, 60473874003, 60473874005, 60473874006, 60473874010, 60473874011

METHOD BLANK: 3619719 Matrix: Water
Associated Lab Samples: 60473874001, 60473874002, 60473874003, 60473874005, 60473874006, 60473874010, 60473874011

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.000 ± 0.340 (0.688) C:NA T:94%	pCi/L	05/20/25 15:28	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL - RADIOCHEMISTRY

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

QC Batch: 745059
QC Batch Method: EPA 904.0
Analysis Method: EPA 904.0
Analysis Description: 904.0 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 60473874026, 60473874027, 60473874028, 60473874029, 60473874030, 60473874031, 60473874032

METHOD BLANK: 3627338 Matrix: Water
Associated Lab Samples: 60473874026, 60473874027, 60473874028, 60473874029, 60473874030, 60473874031, 60473874032

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.473 ± 0.367 (0.711) C:69% T:89%	pCi/L	05/19/25 15:04	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL - RADIOCHEMISTRY

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

QC Batch: 743771
QC Batch Method: EPA 904.0
Analysis Method: EPA 904.0
Analysis Description: 904.0 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 60473874007, 60473874008, 60473874009, 60473874012, 60473874013, 60473874014, 60473874015, 60473874016, 60473874017, 60473874018, 60473874019, 60473874020, 60473874021, 60473874022, 60473874023, 60473874024, 60473874025

METHOD BLANK: 3619819
Matrix: Water
Associated Lab Samples: 60473874007, 60473874008, 60473874009, 60473874012, 60473874013, 60473874014, 60473874015, 60473874016, 60473874017, 60473874018, 60473874019, 60473874020, 60473874021, 60473874022, 60473874023, 60473874024, 60473874025

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.159 ± 0.322 (0.710) C:76% T:86%	pCi/L	05/20/25 11:27	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL - RADIOCHEMISTRY

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

QC Batch: 743770
QC Batch Method: EPA 903.1
Analysis Method: EPA 903.1
Analysis Description: 903.1 Radium-226
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 60473874007, 60473874008, 60473874009, 60473874012, 60473874013, 60473874014, 60473874015, 60473874016, 60473874017, 60473874018, 60473874019, 60473874020, 60473874021, 60473874022, 60473874023, 60473874024, 60473874025

METHOD BLANK: 3619817
Matrix: Water
Associated Lab Samples: 60473874007, 60473874008, 60473874009, 60473874012, 60473874013, 60473874014, 60473874015, 60473874016, 60473874017, 60473874018, 60473874019, 60473874020, 60473874021, 60473874022, 60473874023, 60473874024, 60473874025

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.365 ± 0.331 (0.488) C:NA T:96%	pCi/L	05/21/25 14:21	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL - RADIOCHEMISTRY

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

QC Batch: 745057
QC Batch Method: EPA 903.1
Analysis Method: EPA 903.1
Analysis Description: 903.1 Radium-226
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 60473874026, 60473874027, 60473874028, 60473874029, 60473874030, 60473874031, 60473874032

METHOD BLANK: 3627337 Matrix: Water
Associated Lab Samples: 60473874026, 60473874027, 60473874028, 60473874029, 60473874030, 60473874031, 60473874032

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0389 ± 0.178 (0.361) C:NA T:105%	pCi/L	05/21/25 13:30	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALIFIERS

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval). Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

B	Analyte was detected in the associated method blank.
E	Analyte concentration exceeded the calibration range. The reported result is estimated.
H6	Analysis initiated outside of the 15 minute EPA required holding time.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
MW	Due to matrix interference, achieving a constant weight is not possible.
P6	Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60473874001	**L-BMW-1S**	EPA 200.7	933297	EPA 200.7	933530
60473874002	**L-BMW-2S**	EPA 200.7	933297	EPA 200.7	933530
60473874003	**L-LMW-2S**	EPA 200.7	933298	EPA 200.7	933376
60473874004	**L-MW-33(D)**	EPA 200.7	933298	EPA 200.7	933376
60473874005	**L-TP-1D**	EPA 200.7	933298	EPA 200.7	933376
60473874006	**L-TP-3M**	EPA 200.7	933298	EPA 200.7	933376
60473874007	**L-TP-3D**	EPA 200.7	933298	EPA 200.7	933376
60473874008	**L-TP-4D**	EPA 200.7	933298	EPA 200.7	933376
60473874009	**L-CA-DUP-1**	EPA 200.7	933298	EPA 200.7	933376
60473874012	**L-AMW-8**	EPA 200.7	933650	EPA 200.7	933723
60473874013	**L-LMW-1S**	EPA 200.7	933650	EPA 200.7	933723
60473874014	**L-LMW-4S**	EPA 200.7	933650	EPA 200.7	933723
60473874015	**L-MW-24**	EPA 200.7	933650	EPA 200.7	933723
60473874016	**L-MW-34(D)**	EPA 200.7	933650	EPA 200.7	933723
60473874017	**L-MW-35(D)**	EPA 200.7	933653	EPA 200.7	933724
60473874018	**L-AM-1S**	EPA 200.7	933653	EPA 200.7	933724
60473874019	**L-CA-DUP-2**	EPA 200.7	933653	EPA 200.7	933724
60473874020	**L-CA-DUP-3**	EPA 200.7	933653	EPA 200.7	933724
60473874021	**L-CA-FB-1**	EPA 200.7	933653	EPA 200.7	933724
60473874022	**L-CA-FB-2**	EPA 200.7	933653	EPA 200.7	933724
60473874025	**L-AM-1D**	EPA 200.7	933653	EPA 200.7	933724
60473874026	**L-LMW-7S**	EPA 200.7	934063	EPA 200.7	934134
60473874027	**L-LMW-8S**	EPA 200.7	934063	EPA 200.7	934134
60473874028	**L-MW-26**	EPA 200.7	934063	EPA 200.7	934134
60473874029	**L-S-1**	EPA 200.7	934063	EPA 200.7	934134
60473874030	**L-TP-2M**	EPA 200.7	934063	EPA 200.7	934134
60473874031	**L-TP-2D**	EPA 200.7	934063	EPA 200.7	934134
60473874032	**L-CA-FB-3**	EPA 200.7	934063	EPA 200.7	934134
60473874001	**L-BMW-1S**	EPA 200.8	933296	EPA 200.8	933528
60473874002	**L-BMW-2S**	EPA 200.8	933296	EPA 200.8	933528
60473874003	**L-LMW-2S**	EPA 200.8	933299	EPA 200.8	933377
60473874004	**L-MW-33(D)**	EPA 200.8	933299	EPA 200.8	933377
60473874005	**L-TP-1D**	EPA 200.8	933299	EPA 200.8	933377
60473874006	**L-TP-3M**	EPA 200.8	933299	EPA 200.8	933377
60473874007	**L-TP-3D**	EPA 200.8	933299	EPA 200.8	933377
60473874008	**L-TP-4D**	EPA 200.8	933299	EPA 200.8	933377
60473874009	**L-CA-DUP-1**	EPA 200.8	933299	EPA 200.8	933377
60473874012	**L-AMW-8**	EPA 200.8	933651	EPA 200.8	933704
60473874013	**L-LMW-1S**	EPA 200.8	933651	EPA 200.8	933704
60473874014	**L-LMW-4S**	EPA 200.8	933651	EPA 200.8	933704
60473874015	**L-MW-24**	EPA 200.8	933651	EPA 200.8	933704
60473874016	**L-MW-34(D)**	EPA 200.8	933651	EPA 200.8	933704
60473874017	**L-MW-35(D)**	EPA 200.8	933657	EPA 200.8	933784
60473874018	**L-AM-1S**	EPA 200.8	933657	EPA 200.8	933784
60473874019	**L-CA-DUP-2**	EPA 200.8	933657	EPA 200.8	933784

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60473874020	**L-CA-DUP-3**	EPA 200.8	933657	EPA 200.8	933784
60473874021	**L-CA-FB-1**	EPA 200.8	933657	EPA 200.8	933784
60473874022	**L-CA-FB-2**	EPA 200.8	933657	EPA 200.8	933784
60473874025	**L-AM-1D**	EPA 200.8	933657	EPA 200.8	933784
60473874026	**L-LMW-7S**	EPA 200.8	934064	EPA 200.8	934133
60473874027	**L-LMW-8S**	EPA 200.8	934064	EPA 200.8	934133
60473874028	**L-MW-26**	EPA 200.8	934064	EPA 200.8	934133
60473874029	**L-S-1**	EPA 200.8	934064	EPA 200.8	934133
60473874030	**L-TP-2M**	EPA 200.8	934064	EPA 200.8	934133
60473874031	**L-TP-2D**	EPA 200.8	934064	EPA 200.8	934133
60473874032	**L-CA-FB-3**	EPA 200.8	934064	EPA 200.8	934133
60473874001	**L-BMW-1S**	EPA 7470	934803	EPA 7470	934825
60473874002	**L-BMW-2S**	EPA 7470	934803	EPA 7470	934825
60473874003	**L-LMW-2S**	EPA 7470	934803	EPA 7470	934825
60473874004	**L-MW-33(D)**	EPA 7470	934803	EPA 7470	934825
60473874005	**L-TP-1D**	EPA 7470	934804	EPA 7470	934826
60473874006	**L-TP-3M**	EPA 7470	934804	EPA 7470	934826
60473874007	**L-TP-3D**	EPA 7470	934804	EPA 7470	934826
60473874008	**L-TP-4D**	EPA 7470	934804	EPA 7470	934826
60473874009	**L-CA-DUP-1**	EPA 7470	934804	EPA 7470	934826
60473874012	**L-AMW-8**	EPA 7470	935430	EPA 7470	935467
60473874013	**L-LMW-1S**	EPA 7470	935430	EPA 7470	935467
60473874014	**L-LMW-4S**	EPA 7470	935430	EPA 7470	935467
60473874015	**L-MW-24**	EPA 7470	935430	EPA 7470	935467
60473874016	**L-MW-34(D)**	EPA 7470	935430	EPA 7470	935467
60473874017	**L-MW-35(D)**	EPA 7470	935430	EPA 7470	935467
60473874018	**L-AM-1S**	EPA 7470	935430	EPA 7470	935467
60473874019	**L-CA-DUP-2**	EPA 7470	935430	EPA 7470	935467
60473874020	**L-CA-DUP-3**	EPA 7470	935430	EPA 7470	935467
60473874021	**L-CA-FB-1**	EPA 7470	935430	EPA 7470	935467
60473874022	**L-CA-FB-2**	EPA 7470	935430	EPA 7470	935467
60473874025	**L-AM-1D**	EPA 7470	935430	EPA 7470	935467
60473874026	**L-LMW-7S**	EPA 7470	935430	EPA 7470	935467
60473874027	**L-LMW-8S**	EPA 7470	935430	EPA 7470	935467
60473874028	**L-MW-26**	EPA 7470	935430	EPA 7470	935467
60473874029	**L-S-1**	EPA 7470	935430	EPA 7470	935467
60473874030	**L-TP-2M**	EPA 7470	935431	EPA 7470	935468
60473874031	**L-TP-2D**	EPA 7470	935431	EPA 7470	935468
60473874032	**L-CA-FB-3**	EPA 7470	935431	EPA 7470	935468
60473874001	**L-BMW-1S**	EPA 903.1	743753		
60473874002	**L-BMW-2S**	EPA 903.1	743753		
60473874003	**L-LMW-2S**	EPA 903.1	743753		
60473874004	**L-MW-33(D)**	EPA 903.1	744308		
60473874005	**L-TP-1D**	EPA 903.1	743753		
60473874006	**L-TP-3M**	EPA 903.1	743753		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60473874007	**L-TP-3D**	EPA 903.1	743770		
60473874008	**L-TP-4D**	EPA 903.1	743770		
60473874009	**L-CA-DUP-1**	EPA 903.1	743770		
60473874010	**L-MS-1**	EPA 903.1	743753		
60473874011	**L-MSD-1**	EPA 903.1	743753		
60473874012	**L-AMW-8**	EPA 903.1	743770		
60473874013	**L-LMW-1S**	EPA 903.1	743770		
60473874014	**L-LMW-4S**	EPA 903.1	743770		
60473874015	**L-MW-24**	EPA 903.1	743770		
60473874016	**L-MW-34(D)**	EPA 903.1	743770		
60473874017	**L-MW-35(D)**	EPA 903.1	743770		
60473874018	**L-AM-1S**	EPA 903.1	743770		
60473874019	**L-CA-DUP-2**	EPA 903.1	743770		
60473874020	**L-CA-DUP-3**	EPA 903.1	743770		
60473874021	**L-CA-FB-1**	EPA 903.1	743770		
60473874022	**L-CA-FB-2**	EPA 903.1	743770		
60473874023	**L-MS-2**	EPA 903.1	743770		
60473874024	**L-MSD-2**	EPA 903.1	743770		
60473874025	**L-AM-1D**	EPA 903.1	743770		
60473874026	**L-LMW-7S**	EPA 903.1	745057		
60473874027	**L-LMW-8S**	EPA 903.1	745057		
60473874028	**L-MW-26**	EPA 903.1	745057		
60473874029	**L-S-1**	EPA 903.1	745057		
60473874030	**L-TP-2M**	EPA 903.1	745057		
60473874031	**L-TP-2D**	EPA 903.1	745057		
60473874032	**L-CA-FB-3**	EPA 903.1	745057		
60473874001	**L-BMW-1S**	EPA 904.0	743755		
60473874002	**L-BMW-2S**	EPA 904.0	743755		
60473874003	**L-LMW-2S**	EPA 904.0	743755		
60473874004	**L-MW-33(D)**	EPA 904.0	744311		
60473874005	**L-TP-1D**	EPA 904.0	743755		
60473874006	**L-TP-3M**	EPA 904.0	743755		
60473874007	**L-TP-3D**	EPA 904.0	743771		
60473874008	**L-TP-4D**	EPA 904.0	743771		
60473874009	**L-CA-DUP-1**	EPA 904.0	743771		
60473874010	**L-MS-1**	EPA 904.0	743755		
60473874011	**L-MSD-1**	EPA 904.0	743755		
60473874012	**L-AMW-8**	EPA 904.0	743771		
60473874013	**L-LMW-1S**	EPA 904.0	743771		
60473874014	**L-LMW-4S**	EPA 904.0	743771		
60473874015	**L-MW-24**	EPA 904.0	743771		
60473874016	**L-MW-34(D)**	EPA 904.0	743771		
60473874017	**L-MW-35(D)**	EPA 904.0	743771		
60473874018	**L-AM-1S**	EPA 904.0	743771		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60473874019	**L-CA-DUP-2**	EPA 904.0	743771		
60473874020	**L-CA-DUP-3**	EPA 904.0	743771		
60473874021	**L-CA-FB-1**	EPA 904.0	743771		
60473874022	**L-CA-FB-2**	EPA 904.0	743771		
60473874023	**L-MS-2**	EPA 904.0	743771		
60473874024	**L-MSD-2**	EPA 904.0	743771		
60473874025	**L-AM-1D**	EPA 904.0	743771		
60473874026	**L-LMW-7S**	EPA 904.0	745059		
60473874027	**L-LMW-8S**	EPA 904.0	745059		
60473874028	**L-MW-26**	EPA 904.0	745059		
60473874029	**L-S-1**	EPA 904.0	745059		
60473874030	**L-TP-2M**	EPA 904.0	745059		
60473874031	**L-TP-2D**	EPA 904.0	745059		
60473874032	**L-CA-FB-3**	EPA 904.0	745059		
60473874001	**L-BMW-1S**	SM 2320B	934386		
60473874002	**L-BMW-2S**	SM 2320B	934386		
60473874003	**L-LMW-2S**	SM 2320B	934523		
60473874004	**L-MW-33(D)**	SM 2320B	934386		
60473874005	**L-TP-1D**	SM 2320B	934523		
60473874006	**L-TP-3M**	SM 2320B	934386		
60473874007	**L-TP-3D**	SM 2320B	934386		
60473874008	**L-TP-4D**	SM 2320B	934386		
60473874009	**L-CA-DUP-1**	SM 2320B	934386		
60473874012	**L-AMW-8**	SM 2320B	934756		
60473874013	**L-LMW-1S**	SM 2320B	934892		
60473874014	**L-LMW-4S**	SM 2320B	934821		
60473874015	**L-MW-24**	SM 2320B	934821		
60473874016	**L-MW-34(D)**	SM 2320B	934821		
60473874017	**L-MW-35(D)**	SM 2320B	934821		
60473874018	**L-AM-1S**	SM 2320B	934892		
60473874019	**L-CA-DUP-2**	SM 2320B	934821		
60473874020	**L-CA-DUP-3**	SM 2320B	934821		
60473874021	**L-CA-FB-1**	SM 2320B	934892		
60473874022	**L-CA-FB-2**	SM 2320B	934892		
60473874025	**L-AM-1D**	SM 2320B	934892		
60473874026	**L-LMW-7S**	SM 2320B	935136		
60473874027	**L-LMW-8S**	SM 2320B	935136		
60473874028	**L-MW-26**	SM 2320B	935136		
60473874029	**L-S-1**	SM 2320B	935136		
60473874030	**L-TP-2M**	SM 2320B	935136		
60473874031	**L-TP-2D**	SM 2320B	935136		
60473874032	**L-CA-FB-3**	SM 2320B	935136		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60473874001	**L-BMW-1S**	SM 2540C	933633		
60473874002	**L-BMW-2S**	SM 2540C	933633		
60473874003	**L-LMW-2S**	SM 2540C	933633		
60473874004	**L-MW-33(D)**	SM 2540C	933633		
60473874005	**L-TP-1D**	SM 2540C	933633		
60473874006	**L-TP-3M**	SM 2540C	933633		
60473874007	**L-TP-3D**	SM 2540C	933633		
60473874008	**L-TP-4D**	SM 2540C	933633		
60473874009	**L-CA-DUP-1**	SM 2540C	933633		
60473874012	**L-AMW-8**	SM 2540C	933972		
60473874013	**L-LMW-1S**	SM 2540C	934108		
60473874014	**L-LMW-4S**	SM 2540C	933972		
60473874015	**L-MW-24**	SM 2540C	933972		
60473874016	**L-MW-34(D)**	SM 2540C	933972		
60473874017	**L-MW-35(D)**	SM 2540C	933972		
60473874018	**L-AM-1S**	SM 2540C	934108		
60473874019	**L-CA-DUP-2**	SM 2540C	933972		
60473874020	**L-CA-DUP-3**	SM 2540C	933972		
60473874021	**L-CA-FB-1**	SM 2540C	934108		
60473874022	**L-CA-FB-2**	SM 2540C	934108		
60473874025	**L-AM-1D**	SM 2540C	934108		
60473874026	**L-LMW-7S**	SM 2540C	934269		
60473874027	**L-LMW-8S**	SM 2540C	934269		
60473874028	**L-MW-26**	SM 2540C	934269		
60473874029	**L-S-1**	SM 2540C	934269		
60473874030	**L-TP-2M**	SM 2540C	934269		
60473874031	**L-TP-2D**	SM 2540C	934269		
60473874032	**L-CA-FB-3**	SM 2540C	934269		
60473874001	**L-BMW-1S**	SM 3500-Fe B#4	936597		
60473874002	**L-BMW-2S**	SM 3500-Fe B#4	936597		
60473874003	**L-LMW-2S**	SM 3500-Fe B#4	936597		
60473874004	**L-MW-33(D)**	SM 3500-Fe B#4	936597		
60473874005	**L-TP-1D**	SM 3500-Fe B#4	936597		
60473874006	**L-TP-3M**	SM 3500-Fe B#4	936597		
60473874007	**L-TP-3D**	SM 3500-Fe B#4	936597		
60473874008	**L-TP-4D**	SM 3500-Fe B#4	936597		
60473874009	**L-CA-DUP-1**	SM 3500-Fe B#4	936597		
60473874012	**L-AMW-8**	SM 3500-Fe B#4	936661		
60473874013	**L-LMW-1S**	SM 3500-Fe B#4	936661		
60473874014	**L-LMW-4S**	SM 3500-Fe B#4	936661		
60473874015	**L-MW-24**	SM 3500-Fe B#4	936661		
60473874016	**L-MW-34(D)**	SM 3500-Fe B#4	936661		
60473874017	**L-MW-35(D)**	SM 3500-Fe B#4	936661		
60473874018	**L-AM-1S**	SM 3500-Fe B#4	936661		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60473874019	**L-CA-DUP-2**	SM 3500-Fe B#4	936661		
60473874020	**L-CA-DUP-3**	SM 3500-Fe B#4	936661		
60473874021	**L-CA-FB-1**	SM 3500-Fe B#4	936661		
60473874022	**L-CA-FB-2**	SM 3500-Fe B#4	936661		
60473874025	**L-AM-1D**	SM 3500-Fe B#4	936661		
60473874026	**L-LMW-7S**	SM 3500-Fe B#4	936661		
60473874027	**L-LMW-8S**	SM 3500-Fe B#4	936661		
60473874028	**L-MW-26**	SM 3500-Fe B#4	936661		
60473874029	**L-S-1**	SM 3500-Fe B#4	936661		
60473874030	**L-TP-2M**	SM 3500-Fe B#4	936664		
60473874031	**L-TP-2D**	SM 3500-Fe B#4	936664		
60473874032	**L-CA-FB-3**	SM 3500-Fe B#4	936664		
60473874001	**L-BMW-1S**	SM 3500-Fe B#4	933311		
60473874002	**L-BMW-2S**	SM 3500-Fe B#4	933311		
60473874003	**L-LMW-2S**	SM 3500-Fe B#4	933311		
60473874004	**L-MW-33(D)**	SM 3500-Fe B#4	933311		
60473874005	**L-TP-1D**	SM 3500-Fe B#4	933311		
60473874006	**L-TP-3M**	SM 3500-Fe B#4	933311		
60473874007	**L-TP-3D**	SM 3500-Fe B#4	933311		
60473874008	**L-TP-4D**	SM 3500-Fe B#4	933311		
60473874009	**L-CA-DUP-1**	SM 3500-Fe B#4	933311		
60473874012	**L-AMW-8**	SM 3500-Fe B#4	933924		
60473874013	**L-LMW-1S**	SM 3500-Fe B#4	933924		
60473874014	**L-LMW-4S**	SM 3500-Fe B#4	933924		
60473874015	**L-MW-24**	SM 3500-Fe B#4	933924		
60473874016	**L-MW-34(D)**	SM 3500-Fe B#4	933924		
60473874017	**L-MW-35(D)**	SM 3500-Fe B#4	933924		
60473874018	**L-AM-1S**	SM 3500-Fe B#4	933924		
60473874019	**L-CA-DUP-2**	SM 3500-Fe B#4	933924		
60473874020	**L-CA-DUP-3**	SM 3500-Fe B#4	933924		
60473874021	**L-CA-FB-1**	SM 3500-Fe B#4	933924		
60473874022	**L-CA-FB-2**	SM 3500-Fe B#4	933924		
60473874025	**L-AM-1D**	SM 3500-Fe B#4	933924		
60473874026	**L-LMW-7S**	SM 3500-Fe B#4	933925		
60473874027	**L-LMW-8S**	SM 3500-Fe B#4	933925		
60473874028	**L-MW-26**	SM 3500-Fe B#4	933925		
60473874029	**L-S-1**	SM 3500-Fe B#4	933925		
60473874030	**L-TP-2M**	SM 3500-Fe B#4	933925		
60473874031	**L-TP-2D**	SM 3500-Fe B#4	933925		
60473874032	**L-CA-FB-3**	SM 3500-Fe B#4	933925		
60473874001	**L-BMW-1S**	SM 4500-S-2 D	933493		
60473874002	**L-BMW-2S**	SM 4500-S-2 D	933493		
60473874003	**L-LMW-2S**	SM 4500-S-2 D	933493		
60473874004	**L-MW-33(D)**	SM 4500-S-2 D	933493		
60473874005	**L-TP-1D**	SM 4500-S-2 D	933493		
60473874006	**L-TP-3M**	SM 4500-S-2 D	933493		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60473874007	**L-TP-3D**	SM 4500-S-2 D	933493		
60473874008	**L-TP-4D**	SM 4500-S-2 D	933493		
60473874009	**L-CA-DUP-1**	SM 4500-S-2 D	933493		
60473874012	**L-AMW-8**	SM 4500-S-2 D	933805		
60473874013	**L-LMW-1S**	SM 4500-S-2 D	933805		
60473874014	**L-LMW-4S**	SM 4500-S-2 D	933805		
60473874015	**L-MW-24**	SM 4500-S-2 D	933805		
60473874016	**L-MW-34(D)**	SM 4500-S-2 D	933805		
60473874017	**L-MW-35(D)**	SM 4500-S-2 D	933805		
60473874018	**L-AM-1S**	SM 4500-S-2 D	933805		
60473874019	**L-CA-DUP-2**	SM 4500-S-2 D	933805		
60473874020	**L-CA-DUP-3**	SM 4500-S-2 D	933805		
60473874021	**L-CA-FB-1**	SM 4500-S-2 D	933806		
60473874022	**L-CA-FB-2**	SM 4500-S-2 D	933806		
60473874025	**L-AM-1D**	SM 4500-S-2 D	933806		
60473874026	**L-LMW-7S**	SM 4500-S-2 D	933967		
60473874027	**L-LMW-8S**	SM 4500-S-2 D	933967		
60473874028	**L-MW-26**	SM 4500-S-2 D	933967		
60473874029	**L-S-1**	SM 4500-S-2 D	933967		
60473874030	**L-TP-2M**	SM 4500-S-2 D	933967		
60473874031	**L-TP-2D**	SM 4500-S-2 D	933967		
60473874032	**L-CA-FB-3**	SM 4500-S-2 D	933967		
60473874001	**L-BMW-1S**	EPA 300.0	935142		
60473874002	**L-BMW-2S**	EPA 300.0	935142		
60473874003	**L-LMW-2S**	EPA 300.0	935142		
60473874004	**L-MW-33(D)**	EPA 300.0	935142		
60473874005	**L-TP-1D**	EPA 300.0	935142		
60473874006	**L-TP-3M**	EPA 300.0	935142		
60473874007	**L-TP-3D**	EPA 300.0	935142		
60473874008	**L-TP-4D**	EPA 300.0	935142		
60473874009	**L-CA-DUP-1**	EPA 300.0	935142		
60473874012	**L-AMW-8**	EPA 300.0	936168		
60473874013	**L-LMW-1S**	EPA 300.0	936176		
60473874014	**L-LMW-4S**	EPA 300.0	936168		
60473874015	**L-MW-24**	EPA 300.0	936168		
60473874016	**L-MW-34(D)**	EPA 300.0	936168		
60473874017	**L-MW-35(D)**	EPA 300.0	936176		
60473874018	**L-AM-1S**	EPA 300.0	936176		
60473874019	**L-CA-DUP-2**	EPA 300.0	936168		
60473874020	**L-CA-DUP-3**	EPA 300.0	936168		
60473874021	**L-CA-FB-1**	EPA 300.0	936176		
60473874022	**L-CA-FB-2**	EPA 300.0	936176		
60473874025	**L-AM-1D**	EPA 300.0	936176		
60473874026	**L-LMW-7S**	EPA 300.0	936176		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: AMEREN LCPA-CA
Pace Project No.: 60473874

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60473874027	**L-LMW-8S**	EPA 300.0	936176		
60473874028	**L-MW-26**	EPA 300.0	936176		
60473874029	**L-S-1**	EPA 300.0	936168		
60473874030	**L-TP-2M**	EPA 300.0	936490		
60473874031	**L-TP-2D**	EPA 300.0	936490		
60473874032	**L-CA-FB-3**	EPA 300.0	936490		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

WO# : 60473874

60473874

Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-LENE-0009_Sample Co		
	Revision: 2	Effective Date: 01/12/2022	Issued By: Lenexa

Client Name: Rocksmith Geoeng

Courier: FedEx ☐ UPS ☐ VIA ☐ Clay ☐ PEX ☐ ECI ☐ Pace ☐ Xroads ☑ Client ☐ Other ☐

Tracking #: _____ Pace Shipping Label Used? Yes ☐ No ☑

Custody Seal on Cooler/Box Present: Yes ☑ No ☐ Seals intact: Yes ☑ No ☐

Packing Material: Bubble Wrap ☐ Bubble Bags ☑ Foam ☐ None ☐ Other ☐

Thermometer Used: T-301 **Type of Ice:** (Wet) Blue None

Cooler Temperature (°C): As-read 2.2/1.0/1.6 Corr. Factor +0.1 Corrected 2.3/1.1/1.7/3.7

Temperature should be above freezing to 6°C 3.6/20.1/19.7 20.2/19.8

Date and initials of person examining contents: PM 4/28/25

Chain of Custody present:	☑Yes ☐No ☐N/A	
Chain of Custody relinquished:	☑Yes ☐No ☐N/A	
Samples arrived within holding time:	☑Yes ☐No ☐N/A	
Short Hold Time analyses (<72hr):	☐Yes ☑No ☐N/A	
Rush Turn Around Time requested:	☐Yes ☑No ☐N/A	
Sufficient volume:	☑Yes ☐No ☐N/A	
Correct containers used:	☑Yes ☐No ☐N/A	
Pace containers used:	☑Yes ☐No ☐N/A	
Containers intact:	☑Yes ☐No ☐N/A	
Unpreserved 5035A / TX1005/1006 soils frozen in 48hrs?	☐Yes ☐No ☑N/A	
Filtered volume received for dissolved tests?	☐Yes ☐No ☑N/A	
Sample labels match COC: Date / time / ID / analyses	☑Yes ☐No ☐N/A	
Samples contain multiple phases? Matrix: WT	☐Yes ☑No ☐N/A	
Containers requiring pH preservation in compliance? (HNO_3, H_2SO_4, HCl<2; NaOH>9 Sulfide, NaOH>10 Cyanide) (Exceptions: VOA, Micro, O&G, KS TPH, OK-DRO) LOT#: 96888/98728	☑Yes ☐No ☐N/A	List sample IDs, volumes, lot #'s of preservative and the date/time added.
Cyanide water sample checks: Lead acetate strip turns dark? (Record only)	☐Yes ☐No	
Potassium iodide test strip turns blue/purple? (Preserve)	☐Yes ☐No	
Trip Blank present:	☐Yes ☑No ☐N/A	
Headspace in VOA vials (>6mm):	☐Yes ☑No ☐N/A	
Samples from USDA Regulated Area: State:	☐Yes ☐No ☑N/A	
Additional labels attached to 5035A / TX1005 vials in the field?	☐Yes ☐No ☑N/A	

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: _____

Pace® Location Requested (City/State):
Pace Analytical Kansas
9608 Loiret Blvd., Lenexa, KS 66219

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

60473874

Scan QR Code for instructions

Company Name:	Rocksmith Geoengineering, LLC.	Contact/Report To:	Mark Haddock
Street Address:	2320 Creve Coeur Mill Road, Maryland Heights, MO 63043	Phone #:	314-974-6578
		E-Mail:	mark.haddock@rocksmithgeo.com
		Cc E-Mail:	
Customer Project #:	COC# 2		
Project Name:	AMEREN LCPA-CA	Invoice To:	Mark Haddock
		Invoice E-Mail:	mark.haddock@rocksmithgeo.com
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	
		Quote #:	
Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [ ] ET		County / State origin of sample(s):	Missouri

Data Deliverables:
[ ] Level II [ ] Level III [ ] Level IV
[ ] EQUIS
[ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [ ] Yes [ ] No

Rush (Pre-approval required):
[ ] Same Day [ ] 1 Day [ ] 2 Day [ ] 3 Day [ ] Other _____

DW PWSID # or WW Permit # as applicable:

Date Results Requested:

Field Filtered (if applicable): [ ] Yes [ ] No
Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

Specify Container Size **: 1 1 3 3 3 3 3 1 6 3

Identify Container Preservative Type***: 1 1 3 2 2 2 3 2 4 6

Customer Sample ID	Matrix *	Comp / Grab	Composite Start Date	Composite Start Time	Collected or Composite End Date	Collected or Composite End Time	# Cont.	Res. Chlorine Results	Res. Chlorine Units	Chloride/Fluoride/Sulfate	TDS / Alkalinity	COD / TOC	App III and Cat/An Metals (200.7)*	Appendix IV Metals (200.7/200.8/7470)**	UWL Metals (200.7)***	TOX	Radium 226 & Radium 228	Ferrous/ferric Iron	Sulfide	Sample Comment	Preservation non-conformance identified for sample.
L-AMW-8	WT																				
L-BMW-1S	WT	G			4-24-25	1150	9			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
L-BMW-2S	WT	G			〃	1415	9			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
L-LMW-1S	WT																				
L-LMW-2S	WT	G			4-25-25	1205	9			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
L-LMW-4S	WT																				
L-LMW-7S	WT																				
L-LMW-8S	WT																				
L-MW-24	WT																				
L-MW-26	WT																				

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) 90mL, (10) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only
Proj. Mgr: Jamie Church
AcctNum / Client ID:
Table #:
Profile / Template: 15857
Prelog / Bottle Ord. ID: EZ 3244555

Additional Instructions from Pace®:
App III and Cat/An Metals - EPA 200.7: Fe, Mg, Mn, K, Na, Ca, B
**App IV Metals - EPA 200.7 -Ba,Be,Co,Pb,Li,Mo & 200.8 Metals - Sb, As,Cd,Cr,Se,Tl +7470 Hg
***UWL Metals - 200.7: Al, Cu, Ni, Ag, Zn + Hardness

Collected By: (Printed Name) Grant Morey
Signature:

Customer Remarks / Special Conditions / Possible Hazards: 2-3/1.1/1-7/3-7/20.2/19.8

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)	On Ice:
6	T-301	+0.1			

Relinquished by/Company: (Signature) Rocksmith	Date/Time: 4-25-25/1600	Received by/Company: (Signature) PASL	Date/Time: 4/26 0647	Tracking Number:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Delivered by: [ ] In- Person [ ] Courier
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	[ ] FedEX [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: 1 of 3

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

Pace® Location Requested (City/State):
Pace Analytical Kansas
9608 Loiret Blvd., Lenexa, KS 66219

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

6047 3874

Scan QR Code for instructions

Company Name:	Rocksmith Geoengineering, LLC.	Contact/Report To:	Mark Haddock
Street Address:	2320 Creve Coeur Mill Road, Maryland Heights, MO 63043	Phone #:	314-974-6578
		E-Mail:	mark.haddock@rocksmithgeo.com
		Cc E-Mail:	
Customer Project #:	COC# 2		
Project Name:	AMEREN LCPA-CA	Invoice To:	Mark Haddock
		Invoice E-Mail:	mark.haddock@rocksmithgeo.com
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	
		Quote #:	
Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [ ] ET		County / State origin of sample(s):	Missouri

Data Deliverables:
[ ] Level II [ ] Level III [ ] Level IV
[ ] EQUIS
[ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [ ] Yes [ ] No

Rush (Pre-approval required):
[ ] Same Day [ ] 1 Day [ ] 2 Day [ ] 3 Day [ ] Other _____

DW PWSID # or WW Permit # as applicable:

Date Results Requested:

Field Filtered (if applicable): [ ] Yes [ ] No
Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

Specify Container Size **: 1 1 3 3 3 3 3 1 6 3

Identify Container Preservative Type***: 1 1 3 2 2 2 3 2 4 6

Analysis Requested

Customer Sample ID	Matrix *	Comp / Grab	Composite Start Date	Composite Start Time	Collected or Composite End Date	Collected or Composite End Time	# Cont.	Res. Chlorine Results	Res. Chlorine Units	Chloride/Fluoride/Sulfate	TDS / Alkalinity	COD / TOC	App III and Cat/An Metals (200.7)*	Appendix IV Metals (200.7/200.8/7470)*	UWL Metals (200.7)***	TOX	Radium 226 & Radium 228	Ferrous/Ferric Iron	Sulfide	Sample Comment	Preservation non-conformance identified for sample.
L-MW-33(D)	WT				4-24-25	1525	9			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
L-MW-34(D)	WT																				
L-MW-35(D)	WT																				
L-S-1	WT																				
L-TP-1D	WT	G			4-25-25	0950	9			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
L-TP-2M	WT																				
L-TP-2D	WT																				
L-TP-3M	WT	G			4-24-25	1245	9			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
L-TP-3D	WT	G			"	1350	9			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
L-TP-4D	WT	G			"	1045	9			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) 90mL, (10) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only
Proj. Mgr: Jamie Church
AcctNum / Client ID:
Table #:
Profile / Template: 15857
Prelog / Bottle Ord. ID: EZ 3244555

Additional Instructions from Pace®:
App III and Cat/An Metals - EPA 200.7: Fe, Mg, Mn, K, Na, Ca, B
**App IV Metals - EPA 200.7 -Ba,Be,Co,Pb,Li,Mo & 200.8 Metals - Sb, As,Cd,Cr,Se,Tl +7470 Hg
***UWL Metals - 200.7: Al, Cu, Ni, Ag, Zn + Hardness

Collected By: (Printed Name) Grant Morey
Signature: Grant Morey

Customer Remarks / Special Conditions / Possible Hazards:

3.7 / 12.3 / 1.4 / 1.7 / 20.2 / 19.8

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)	On Ice:
6	T-301	+0.1			

Relinquished by/Company: (Signature) Grant Morey / Rocksmith	Date/Time: 4-25-25/1600	Received by/Company: (Signature)	Date/Time: 4/26	0647
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	

Tracking Number:

Delivered by: [ ] In- Person [ ] Courier
[ ] FedEx [ ] UPS [ ] Other

Page: 2 of 3

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

Pace® Location Requested (City/State):
Pace Analytical Kansas
9608 Loiret Blvd., Lenexa, KS 66219

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

60473874

Scan QR Code for instructions

Company Name:	Rocksmith Geoengineering, LLC.	Contact/Report To:	Mark Haddock
Street Address:	2320 Creve Coeur Mill Road, Maryland Heights, MO 63043	Phone #:	314-974-6578
		E-Mail:	mark.haddock@rocksmithgeo.com
		Cc E-Mail:	
Customer Project #:	COC# 2		
Project Name:	AMEREN LCPA-CA	Invoice To:	Mark Haddock
		Invoice E-Mail:	mark.haddock@rocksmithgeo.com
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [ ] ET

County / State origin of sample(s): Missouri

Data Deliverables:
[ ] Level II [ ] Level III [ ] Level IV
[ ] EQUIS
[ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [ ] Yes [ ] No

Rush (Pre-approval required):
[ ] Same Day [ ] 1 Day [ ] 2 Day [ ] 3 Day [ ] Other _____

DW PWSID # or WW Permit # as applicable:

Date Results Requested:

Field Filtered (if applicable): [ ] Yes [ ] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

Specify Container Size **: 1 1 3 3 3 3 3 1 6 3

Identify Container Preservative Type***: 1 1 3 2 2 2 3 2 4 6

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) 90mL, (10) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Customer Sample ID	Matrix *	Comp / Grab	Composite Start Date	Composite Start Time	Collected or Composite End Date	Collected or Composite End Time	# Cont.	Res. Chlorine Results	Res. Chlorine Units	Chloride/Fluoride/Sulfate	TDS / Alkalinity	COD / TOC	App III and Cat/An Metals (200.7)*	Appendix IV Metals (200.7/200.8/7470)**	UWL Metals (200.7)***	TOX	Radium 226 & Radium 228	Ferrous/Ferric Iron	Sulfide	Sample Comment
L-AM-1S	WT																			
L-AM-1D	WT																			
L-CA-DUP-1	WT	G			4-24-25	–	9			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
L-CA-DUP-2	WT																			
L-CA-DUP-3	WT																			
L-CA-FB-1	WT																			
L-CA-FB-2	WT																			
L-CA-FB-3	WT																			
L-MS-1	WT	G			4-25-25	0950	9			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Collected @ L-TP-1D
L-MSD-1	WT	G			4-25-25	0950	9			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	I

Lab Use Only
Proj. Mgr: Jamie Church
AcctNum / Client ID:
Table #:
Profile / Template: 15857
Prelog / Bottle Ord. ID: EZ 3244555

Preservation non-conformance identified for sample:

Additional Instructions from Pace®:
App III and Cat/An Metals - EPA 200.7: Fe, Mg, Mn, K, Na, Ca, B
**App IV Metals - EPA 200.7 -Ba,Be,Co,Pb,Li,Mo & 200.8 Metals - Sb, As,Cd,Cr,Se,Tl +7470 Hg
***UWL Metals - 200.7: Al, Cu, Ni, Ag, Zn + Hardness

Collected By: (Printed Name) Grant Morey
Signature:

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)	On Ice:
6	T-301	+0.1	2.3/1.1/1.7/3.7/2.0	2.2/1.9/1.8	

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
Grant Morey / Rocksmith	4-25-25/1600		4/26 0647	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Delivered by: [ ] In- Person [ ] Courier
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	[ ] FedEx [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: 3 of 3

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

DC#_Title: ENV-FRM-LENE-0001 v07_Sample Container Count
Effective Date: 7/12/2024

Client: Rocksmith Geoeng Profile/EZ #: 324555

Site: Notes

COC Line Item	Matrix	VG9H	DG9H	DG9Q	VG9U	DG9U	DG9M	DG9B	BG1U	AG1H	AG1U	AG2U	AG3S	AG4U	AG5U	JGFU	WGKU	WGDU	BP1U	BP2U	BP3U	BP1N	BP3N	BP3F	BP3S	BP3B	BP3Z	WPDU	ZPLC	Other		
1																																
2	WT		2										2						1			2	1				1					
3	↓		2										2						1			2	1				1					
4													·																			
5	WT		2										2						1			2	1				1					
6																																
7																																
8																																
9																																
10																																
11																																
12																																

Container Codes

Glass			
DG9B	40mL bisulfate clear vial	WGKU	8oz clear soil jar
DG9H	40mL HCl amber voa vial	WGFU	4oz clear soil jar
DG9M	40mL MeOH clear vial	WG2U	2oz clear soil jar
DG9Q	40mL TSP amber vial	JGFU	4oz unpreserved amber wide
DG9S	40mL H2SO4 amber vial	AG0U	100mL unores amber glass
DG9T	40mL Na Thio amber vial	AG1H	1L HCl amber glass
DG9U	40mL amber unpreserved	AG1S	1L H2SO4 amber glass
VG9H	40mL HCl clear vial	AG1T	1L Na Thiosulfate clear/amber glass
VG9T	40mL Na Thio. clear vial	AG1U	1liter unpres amber glass
VG9U	40mL unpreserved clear vial	AG2N	500mL HNO3 amber glass
BG1S	1liter H2SO4 clear glass	AG2S	500mL H2SO4 amber glass
BG1U	1liter unpres glass	AG3S	250mL H2SO4 amber glass
BG3H	250mL HCL Clear glass	AG2U	500mL unpres amber glass
BG3U	250mL Unpres Clear glass	AG3U	250mL unpres amber glass
WGDU	16oz clear soil jar	AG4U	125mL unpres amber glass
		AG5U	100mL unpres amber glass

Plastic	
BP1B	1L NAOH plastic
BP1N	1L HNO3 plastic
BP1S	1L H2SO4 plastic
BP1U	1L unpreserved plastic
BP1Z	1L NaOH, Zn Acetate
BP2B	500mL NAOH plastic
BP2N	500mL HNO3 plastic
BP2S	500mL H2SO4 plastic
BP2U	500mL unpreserved plastic
BP2Z	500mL NaOH, Zn Acetate
BP3B	250mL NaOH plastic
BP3F	250mL HNO3 plastic - field filtered
BP3N	250mL HNO3 plastic
BP3U	250mL unpreserved plastic
BP3S	250mL H2SO4 plastic
BP3Z	250mL NaOH, Zn Acetate
BP4U	125mL unpreserved plastic
BP4N	125mL HNO3 plastic
BP4S	125mL H2SO4 plastic
WPDU	16oz unpresserved plstic

Misc.	
I	Wipe/Swab
SP5T	120mL Coliform Na Thiosulfate
ZPLC	Ziploc Bag
AF	Air Filter
C	Air Cassettes
R	Terracore Kit
U	Summa Can

Matrix	
WT	Water
SL	Solid
NAL	Non-aqueous Liquid
OL	OIL
WP	Wipe
DW	Drinking Water

Work Order Number: 6047874

DC#_Title: ENV-FRM-LENE-0001 v07_Sample Container Count
Effective Date: 7/12/2024

2/3

Client: Rocksmith Geoeng Profile/EZ #: 3244555

Site: Notes

COC Line Item	Matrix	VG9H	DG9H	DG9Q	VG9U	DG9U	DG9M	DG9B	BG1U	AG1H	AG1U	AG2U	AG3S	AG4U	AG5U	JGFU	WGKU	WGDU	BP1U	BP2U	BP3U	BP1N	BP3N	BP3F	BP3S	BP3B	BP3Z	WPDU	ZPLC	Other		
1	WT		2										2						1			2	1				1					
2																																
3																																
4																																
5	WT		6				MS/MSD						6						3			2	3				3					
6																																
7																																
8	WT		2										2						1			2	1				1					
9	WT		2										2						1			2	1				1					
10	WT		2										2						1			2	1				1					
11																																
12																																

Container Codes

Glass			
DG9B	40mL bisulfate clear vial	WGKU	8oz clear soil jar
DG9H	40mL HCl amber voa vial	WGFU	4oz clear soil jar
DG9M	40mL MeOH clear vial	WG2U	2oz clear soil jar
DG9Q	40mL TSP amber vial	JGFU	4oz unpreserved amber wide
DG9S	40mL H2SO4 amber vial	AG0U	100mL unores amber glass
DG9T	40mL Na Thio amber vial	AG1H	1L HCl amber glass
DG9U	40mL amber unpreserved	AG1S	1L H2SO4 amber glass
VG9H	40mL HCl clear vial	AG1T	1L Na Thiosulfate clear/amber glass
VG9T	40mL Na Thio. clear vial	AG1U	1liter unpres amber glass
VG9U	40mL unpreserved clear vial	AG2N	500mL HNO3 amber glass
BG1S	1liter H2SO4 clear glass	AG2S	500mL H2SO4 amber glass
BG1U	1liter unpres glass	AG3S	250mL H2SO4 amber glass
BG3H	250mL HCL Clear glass	AG2U	500mL unpres amber glass
BG3U	250mL Unpres Clear glass	AG3U	250mL unpres amber glass
WGDU	16oz clear soil jar	AG4U	125mL unpres amber glass
		AG5U	100mL unpres amber glass

Plastic	
BP1B	1L NAOH plastic
BP1N	1L HNO3 plastic
BP1S	1L H2SO4 plastic
BP1U	1L unpreserved plastic
BP1Z	1L NaOH, Zn Acetate
BP2B	500mL NAOH plastic
BP2N	500mL HNO3 plastic
BP2S	500mL H2SO4 plastic
BP2U	500mL unpreserved plastic
BP2Z	500mL NaOH, Zn Acetate
BP3B	250mL NaOH plastic
BP3F	250mL HNO3 plastic - field filtered
BP3N	250mL HNO3 plastic
BP3U	250mL unpreserved plastic
BP3S	250mL H2SO4 plastic
BP3Z	250mL NaOH, Zn Acetate
BP4U	125mL unpreserved plastic
BP4N	125mL HNO3 plastic
BP4S	125mL H2SO4 plastic
WPDU	16oz unpresserved plstic

Misc.	
I	Wipe/Swab
SP5T	120mL Coliform Na Thiosulfate
ZPLC	Ziploc Bag
AF	Air Filter
C	Air Cassettes
R	Terracore Kit
U	Summa Can

Matrix	
WT	Water
SL	Solid
NAL	Non-aqueous Liquid
OL	OIL
WP	Wipe
DW	Drinking Water

Work Order Number: 60473874

DC#_Title: ENV-FRM-LENE-0001 v07_Sample Container Count
Effective Date: 7/12/2024

3/3

Client: Rocksmith Heating Profile/EZ #: 3244555

Site: Notes

COC Line Item	Matrix	VG9H	DG9H	DG9Q	VG9U	DG9U	DG9M	DG9B	BG1U	AG1H	AG1U	AG2U	AG3S	AG4U	AG5U	JGFU	WGKU	WGDU	BP1U	BP2U	BP3U	BP1N	BP3N	BP3F	BP3S	BP3B	BP3Z	WPDU	ZPLC	Other		
1																																
2																																
3	WT		2										2						1			2	1				1					
4																																
5																																
6																																
7																																
8																																
9	WT																					2	(ONLY 109 RAD)									
10	WT																					2										
11																																
12																																

Container Codes

Glass			
DG9B	40mL bisulfate clear vial	WGKU	8oz clear soil jar
DG9H	40mL HCl amber voa vial	WGFU	4oz clear soil jar
DG9M	40mL MeOH clear vial	WG2U	2oz clear soil jar
DG9Q	40mL TSP amber vial	JGFU	4oz unpreserved amber wide
DG9S	40mL H2SO4 amber vial	AG0U	100mL unores amber glass
DG9T	40mL Na Thio amber vial	AG1H	1L HCl amber glass
DG9U	40mL amber unpreserved	AG1S	1L H2SO4 amber glass
VG9H	40mL HCl clear vial	AG1T	1L Na Thiosulfate clear/amber glass
VG9T	40mL Na Thio. clear vial	AG1U	1liter unpres amber glass
VG9U	40mL unpreserved clear vial	AG2N	500mL HNO3 amber glass
BG1S	1liter H2SO4 clear glass	AG2S	500mL H2SO4 amber glass
BG1U	1liter unpres glass	AG3S	250mL H2SO4 amber glass
BG3H	250mL HCL Clear glass	AG2U	500mL unpres amber glass
BG3U	250mL Unpres Clear glass	AG3U	250mL unpres amber glass
WGDU	16oz clear soil jar	AG4U	125mL unpres amber glass
		AG5U	100mL unpres amber glass

Plastic	
BP1B	1L NAOH plastic
BP1N	1L HNO3 plastic
BP1S	1L H2SO4 plastic
BP1U	1L unpreserved plastic
BP1Z	1L NaOH, Zn Acetate
BP2B	500mL NAOH plastic
BP2N	500mL HNO3 plastic
BP2S	500mL H2SO4 plastic
BP2U	500mL unpreserved plastic
BP2Z	500mL NaOH, Zn Acetate
BP3B	250mL NaOH plastic
BP3F	250mL HNO3 plastic - field filtered
BP3N	250mL HNO3 plastic
BP3U	250mL unpreserved plastic
BP3S	250mL H2SO4 plastic
BP3Z	250mL NaOH, Zn Acetate
BP4U	125mL unpreserved plastic
BP4N	125mL HNO3 plastic
BP4S	125mL H2SO4 plastic
WPDU	16oz unpresserved plstic

Misc.	
I	Wipe/Swab
SP5T	120mL Coliform Na Thiosulfate
ZPLC	Ziploc Bag
AF	Air Filter
C	Air Cassettes
R	Terracore Kit
U	Summa Can

Matrix	
WT	Water
SL	Solid
NAL	Non-aqueous Liquid
OL	OIL
WP	Wipe
DW	Drinking Water

Work Order Number: 6cy73874

WO# : 60473874

60473874

Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-LENE-0009_Sample Co	
	Revision: 2	Effective Date: 01/12/2022	Issued By: Lenexa

Client Name: Rocksmith Geoeng

Courier: FedEx ☐ UPS ☐ VIA ☐ Clay ☐ PEX ☐ ECI ☐ Pace ☐ Xroads ☑ Client ☐ Other ☐

Tracking #: _____ Pace Shipping Label Used? Yes ☐ No ☑

Custody Seal on Cooler/Box Present: Yes ☐ No ☐ Seals intact: Yes ☑ No ☐

Packing Material: Bubble Wrap ☐ Bubble Bags ☑ Foam ☐ None ☐ Other ☐

Thermometer Used: T-361 **Type of Ice:** (Wet) Blue None

Cooler Temperature (°C): As-read 4.4/1.3/3.6 Corr. Factor +0.2 Corrected 4.6/1.4/3.8/1.5 4.5/2.0/1.6.3/1.4.9/1.5.3

Date and initials of person examining contents: AW 4/30/25

Temperature should be above freezing to 6°C

Chain of Custody present:	☑Yes ☐No ☐N/A	
Chain of Custody relinquished:	☑Yes ☐No ☐N/A	Sample L-MW-34(D) was
Samples arrived within holding time:	☑Yes ☐No ☐N/A	received. 4/28/25 12:10
Short Hold Time analyses (<72hr):	☐Yes ☑No ☐N/A	
Rush Turn Around Time requested:	☐Yes ☑No ☐N/A	
Sufficient volume:	☑Yes ☐No ☐N/A	
Correct containers used:	☑Yes ☐No ☐N/A	
Pace containers used:	☑Yes ☐No ☐N/A	
Containers intact:	☑Yes ☐No ☐N/A	
Unpreserved 5035A / TX1005/1006 soils frozen in 48hrs?	☐Yes ☐No ☑N/A	
Filtered volume received for dissolved tests?	☐Yes ☐No ☑N/A	
Sample labels match COC: Date / time / ID / analyses	☑Yes ☐No ☐N/A	
Samples contain multiple phases? Matrix: WT	☐Yes ☑No ☐N/A	
Containers requiring pH preservation in compliance? (HNO_3, H_2SO_4, HCl<2; NaOH>9 Sulfide, NaOH>10 Cyanide) (Exceptions: VOA, Micro, O&G, KS TPH, OK-DRO) LOT#: 96889/88728	☑Yes ☐No ☐N/A	List sample IDs, volumes, lot #'s of preservative and the date/time added.
Cyanide water sample checks: Lead acetate strip turns dark? (Record only)	☐Yes ☐No	
Potassium iodide test strip turns blue/purple? (Preserve)	☐Yes ☐No	
Trip Blank present:	☐Yes ☑No ☐N/A	
Headspace in VOA vials (>6mm):	☐Yes ☑No ☐N/A	
Samples from USDA Regulated Area: State:	☐Yes ☐No ☑N/A	
Additional labels attached to 5035A / TX1005 vials in the field?	☐Yes ☐No ☑N/A	

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: _____

Pace® Location Requested (City/State):
Pace Analytical Kansas
9608 Loiret Blvd., Lenexa, KS 66219

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

60473814

Scan QR Code for instructions

Company Name:	Rocksmith Geoengineering, LLC.	Contact/Report To:	Mark Haddock
Street Address:	2320 Creve Coeur Mill Road, Maryland Heights, MO 63043	Phone #:	314-974-6578
		E-Mail:	mark.haddock@rocksmithgeo.com
		Cc E-Mail:	
Customer Project #:	COC# 2		
Project Name:	AMEREN LCPA-CA	Invoice To:	Mark Haddock
		Invoice E-Mail:	mark.haddock@rocksmithgeo.com
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	
		Quote #:	
Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [ ] ET		County / State origin of sample(s):	Missouri
Data Deliverables: [ ] Level II [ ] Level III [ ] Level IV [ ] EQUIS [ ] Other		Regulatory Program (DW, RCRA, etc.) as applicable:	Reportable [ ] Yes [ ] No
		Rush (Pre-approval required): [ ] Same Day [ ] 1 Day [ ] 2 Day [ ] 3 Day [ ] Other	DW PWSID # or WW Permit # as applicable:
		Date Results Requested:	Field Filtered (if applicable): [ ] Yes [ ] No
			Analysis:

Specify Container Size **: 1 1 3 3 3 3 3 1 3 6

Identify Container Preservative Type***: 1 1 3 2 2 2 3 2 6 4

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) 90mL, (10) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only:
Proj. Mgr: Jamie Church
AcctNum / Client ID:
Table #:
Profile / Template: 15857
Prelog / Bottle Ord. ID: EZ 3244555

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Composite Start Date	Composite Start Time	Collected or Composite End Date	Collected or Composite End Time	# Cont.	Res. Chlorine Results	Res. Chlorine Units	Chloride/Fluoride/Sulfate	TDS / Alkalinity	COD / TOC	App III and Cat/An Metals (200.7)*	Appendix IV Metals (200.7/200.8/7470)*	UWL Metals (200.7)***	TOX	Radium 226 & Radium 228	Sulfide	Ferrous/Ferric Iron	Sample Comment	Preservation non-conformance identified for sample
L-AMW-8	WT	G			4-28-25	1410	9			✓	✓	✓	✓	✓	—	—	✓	✓	✓		
L-BMW-1S	WT																				
L-BMW-2S	WT																				
L-LMW-1S	WT	G			4-29-25	1347	9			✓	✓	✓	✓	✓	✓	✓	✓	—	✓		
L-LMW-2S	WT																				
L-LMW-4S	WT	G			4-28-25	1330	9			✓	✓	—	✓	✓	✓	✓	—	✓	✓		
L-LMW-7S	WT																				
L-LMW-8S	WT																				
L-MW-24	WT	G			4-28-25	1540	9			✓	✓	✓	✓	✓	—	—	—	✓	✓		
L-MW-26	WT																				

Additional Instructions from Pace®:
App III and Cat/An Metals - EPA 200.7: Fe, Mg, Mn, K, Na, Ca, B
**App IV Metals - EPA 200.7 -Ba,Be,Co,Pb,Li,Mo & 200.8 Metals - Sb, As,Cd,Cr,Se,Tl +7470 Hg
***UWL Metals - 200.7: Al, Cu, Ni, Ag, Zn + Hardness

Collected By: (Printed Name) Grant Money
Signature:

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)	On Ice:

Relinquished by/Company: (Signature) Rocksmith	Date/Time: 4-29-25/1600	Received by/Company: (Signature)	Date/Time: 4/30/25 0730	Tracking Number:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: 1 of 4

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

ENV-FRM-CORQ-0019_v02_110123 ©

Page 172 of 191

Pace® Location Requested (City/State):
Pace Analytical Kansas
9608 Loiret Blvd., Lenexa, KS 66219

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

60473874

Scan QR Code for instructions

Company Name:	Rocksmith Geoengineering, LLC.	Contact/Report To:	Mark Haddock
Street Address:	2320 Creve Coeur Mill Road, Maryland Heights, MO 63043	Phone #:	314-974-6578
		E-Mail:	mark.haddock@rocksmithgeo.com
		Cc E-Mail:	
Customer Project #:	COC# 2		
Project Name:	AMEREN LCPA-CA	Invoice To:	Mark Haddock
		Invoice E-Mail:	mark.haddock@rocksmithgeo.com
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [ ] ET

County / State origin of sample(s): Missouri

Data Deliverables:
[ ] Level II [ ] Level III [ ] Level IV
[ ] EQUIS
[ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [ ] Yes [ ] No

Rush (Pre-approval required):
[ ] Same Day [ ] 1 Day [ ] 2 Day [ ] 3 Day [ ] Other _____

DW PWSID # or WW Permit # as applicable:

Date Results Requested:

Field Filtered (if applicable): [ ] Yes [ ] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Composite Start Date	Composite Start Time	Collected or Composite End Date	Collected or Composite End Time	# Cont.	Res. Chlorine Results	Res. Chlorine Units	Chloride/Fluoride/Sulfate	TDS / Alkalinity	COD / TOC	App III and Cat/An Metals (200.7)*	Appendix IV Metals (200.7/200.8/7470)*	UWL Metals (200.7)***	TOX	Radium 226 & Radium 228	Sulfide	Ferrous/Ferric Iron	Sample Comment	Preservation non-conformance identified for sample.
Specify Container Size **										1	1	3	3	3	3	3	1	3	6		
Identify Container Preservative Type***										1	1	3	2	2	2	3	2	6	4		
L-MW-33(D)	WT																				
L-MW-34(D)	WT																				
L-MW-35(D)	WT				4-28-25	1350	9			✓	✓		✓	✓	✓	✓	✓	✓	✓		
L-S-1	WT																				
L-TP-1D	WT																				
L-TP-2M	WT																				
L-TP-2D	WT																				
L-TP-3M	WT																				
L-TP-3D	WT																				
L-TP-4D	WT																				

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) 90mL, (10) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only
Proj. Mgr: Jamie Church
AcctNum / Client ID:
Table #:
Profile / Template: 15857
Prelog / Bottle Ord. ID: EZ 3244555

Additional Instructions from Pace®:
**App III and Cat/An Metals* - EPA 200.7: Fe, Mg, Mn, K, Na, Ca, B
***App IV Metals - EPA 200.7 -Ba,Be,Co,Pb,Li,Mo & 200.8 Metals - Sb, As,Cd,Cr,Se,Tl +7470 Hg
****UWL Metals - 200.7: Al, Cu, Ni, Ag, Zn + Hardness

Collected By: (Printed Name) Grant Morey
Signature:

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp (°C)	On Ice:

Relinquished by/Company: (Signature)	Date/Time: 4-29-25/1600	Received by/Company: (Signature)	Date/Time: 4/30 07:30	Tracking Number:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Delivered by: [ ] In- Person [ ] Courier [ ] FedEX [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: 2 of 4

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

ENV-FRM-CORQ-0019_v02_110123 ©

Pace® Location Requested (City/State):
Pace Analytical Kansas
9608 Loiret Blvd., Lenexa, KS 66219

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

60477814

Scan QR Code for instructions

Company Name:	Rocksmith Geoengineering, LLC.	Contact/Report To:	Mark Haddock
Street Address:	2320 Creve Coeur Mill Road, Maryland Heights, MO 63043	Phone #:	314-974-6578
		E-Mail:	mark.haddock@rocksmithgeo.com
		Cc E-Mail:	
Customer Project #:	COC# 2		
Project Name:	AMEREN LCPA-CA	Invoice To:	Mark Haddock
		Invoice E-Mail:	mark.haddock@rocksmithgeo.com
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [ ] ET

County / State origin of sample(s): Missouri

Data Deliverables:
[ ] Level II [ ] Level III [ ] Level IV
[ ] EQUIS
[ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [ ] Yes [ ] No

Rush (Pre-approval required):
[ ] Same Day [ ] 1 Day [ ] 2 Day [ ] 3 Day [ ] Other _____

DW PWSID # or WW Permit # as applicable:

Date Results Requested:

Field Filtered (if applicable): [ ] Yes [ ] No
Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

Specify Container Size **: 1 1 3 3 3 3 3 1 3 6

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) 90mL, (10) Other

Identify Container Preservative Type***: 1 1 3 2 2 2 3 2 6 4

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Customer Sample ID	Matrix *	Comp / Grab	Composite Start Date	Composite Start Time	Collected or Composite End Date	Collected or Composite End Time	# Cont.	Res. Chlorine Results	Res. Chlorine Units
L-AM-1S	WT	G			4-29-25	1045	9		
L-AM-1D	WT	G			1	0925	9		
L-CA-DUP-1	WT								
L-CA-DUP-2	WT	G			4-28-25	—	9		
L-CA-DUP-3	WT	G			1	—	9		
L-CA-FB-1	WT	G			4-29-25	0910	9		
L-CA-FB-2	WT	G			1	0955	9		
L-CA-FB-3	WT								
L-MS-1	WT								
L-MSD-1	WT								

Analysis Requested

Chloride/Fluoride/Sulfate	TDS / Alkalinity	COD / TOC	App III and Cat/An Metals (200.7)*	Appendix IV Metals (200.7/200.8/7470)**	UWL Metals (200.7)***	TOX	Radium 226 & Radium 228	Sulfide	Ferrous / Ferric Iron
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Lab Use Only

Proj. Mgr: Jamie Church
AcctNum / Client ID:
Table #:
Profile / Template: 15857
Prelog / Bottle Ord. ID: EZ 3244555

Sample Comment

Time: 0925

Preservation non-conformance identified for sample.

Additional Instructions from Pace®:
App III and Cat/An Metals - EPA 200.7: Fe, Mg, Mn, K, Na, Ca, B
**App IV Metals - EPA 200.7 -Ba,Be,Co,Pb,Li,Mo & 200.8 Metals - Sb, As,Cd,Cr,Se,Tl +7470 Hg
***UWL Metals - 200.7: Al, Cu, Ni, Ag, Zn + Hardness

Collected By:
(Printed Name) Grant Morey
Signature:

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers:	Thermometer ID:	Correction Factor (°C)	Obs. Temp. (°C)	Corrected Temp. (°C)	On Ice

	Date/Time:		Date/Time:	
Relinquished by/Company: (Signature) Rocksmith	4-29-25/1600	Received by/Company: (Signature)	4/30	07:30
Relinquished by/Company: (Signature)		Received by/Company: (Signature)		
Relinquished by/Company: (Signature)		Received by/Company: (Signature)		
Relinquished by/Company: (Signature)		Received by/Company: (Signature)		

Tracking Number:

Delivered by: [ ] In-Person [ ] Courier
[ ] FedEx [ ] UPS [ ] Other

Page: 3 of 4

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

ENV-FRM-CORQ-0019_v02_110123 ©

Pace® Location Requested (City/State):
Pace Analytical Kansas
9608 Loiret Blvd., Lenexa, KS 66219

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

60473814

Scan QR Code for instructions

Company Name:	Rocksmith Geoengineering, LLC.	Contact/Report To:	Mark Haddock
Street Address:	2320 Creve Coeur Mill Road, Maryland Heights, MO 63043	Phone #:	314-974-6578
		E-Mail:	mark.haddock@rocksmithgeo.com
		Cc E-Mail:	
Customer Project #:	COC #2		
Project Name:	AMEREN LCPA-CA	Invoice To:	Mark Haddock
		Invoice E-Mail:	mark.haddock@rocksmithgeo.com
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	
		Quote #:	
Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [ ] ET		County / State origin of sample(s):	Missouri
Data Deliverables: [ ] Level II [ ] Level III [ ] Level IV [ ] EQUIS [ ] Other		Regulatory Program (DW, RCRA, etc.) as applicable:	Reportable [ ] Yes [ ] No
		Rush (Pre-approval required): [ ] Same Day [ ] 1 Day [ ] 2 Day [ ] 3 Day [ ] Other _____	DW PWSID # or WW Permit # as applicable:
		Date Results Requested:	Field Filtered (if applicable): [ ] Yes [ ] No
			Analysis:

Specify Container Size **: 1 1 3 3 3 3 3 1 3 6

Identify Container Preservative Type***: 1 1 3 2 2 2 3 2 6 4

Analysis Requested: Chloride/Fluoride/Sulfate; TDS / Alkalinity; COD / TOC; App III and Cat/An Metals (200.7)*; Appendix IV Metals (200.7/200.8/7470)**; UWL Metals (200.7)***; TOX; Radium 226 & Radium 228; Sulfide; Ferrous/Ferric Iron

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) 90mL, (10) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only: Proj. Mgr: Jamie Church; AcctNum / Client ID:; Table #:; Profile / Template: 15857; Prelog / Bottle Ord. ID.: EZ 3244555

Preservation non-conformance identified for sample.

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Composite Start Date	Composite Start Time	Collected or Composite End Date	Collected or Composite End Time	# Cont.	Res. Chlorine Results	Res. Chlorine Units	Sample Comment
L-MS-2	WT	G			4-28-25	1350	9			Collected @ L-MW-35(D)
L-MSD-2	WT	G			1	1350	9			1

Additional Instructions from Pace®:
App III and Cat/An Metals - EPA 200.7: Fe, Mg, Mn, K, Na, Ca, B
**App IV Metals - EPA 200.7 -Ba,Be,Co,Pb,Li,Mo & 200.8 Metals - Sb, As,Cd,Cr,Se,Tl +7470 Hg
***UWL Metals - 200.7: Al, Cu, Ni, Ag, Zn + Hardness

Collected By: (Printed Name) Grant Mora
Signature:

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)	On Ice:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
Rocksmith	4-29-25/1600		4/30 07:30	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Delivered by: [ ] In- Person [ ] Courier
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	[ ] FedEx [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: 4 of 4

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

1/4

DC#_Title: ENV-FRM-LENE-0001 v07_Sample Container Count
Effective Date: 7/12/2024

Client: ROCKSmith Geoeng Profile/EZ # Only print what you log

Site: Notes Append to 60473874

COC Line Item	Matrix	VG9H	DG9H	DG9Q	VG9U	DG9U	DG9M	DG9B	BG1U	AG1H	AG1U	AG2U	AG3S	AG4U	AG5U	JGFU	WGKU	WGDU	BP1U	BP2U	BP3U	BP1N	BP3N	BP3F	BP3S	BP3B	BP3Z	WPDU	ZPLC	Other		
1	WT		3										2						1			2	1				1					
2																																
3																																
4	WT		2										2						1			2	1				1					
5																																
6	WT		3										2						1			2	1				1					
7																																
8																																
9	WT		2										2						1			2	1				1					
10																																
11																																
12																																

Container Codes

Glass			
DG9B	40mL bisulfate clear vial	WGKU	8oz clear soil jar
DG9H	40mL HCl amber voa vial	WGFU	4oz clear soil jar
DG9M	40mL MeOH clear vial	WG2U	2oz clear soil jar
DG9Q	40mL TSP amber vial	JGFU	4oz unpreserved amber wide
DG9S	40mL H2SO4 amber vial	AG0U	100mL unores amber glass
DG9T	40mL Na Thio amber vial	AG1H	1L HCl amber glass
DG9U	40mL amber unpreserved	AG1S	1L H2SO4 amber glass
VG9H	40mL HCl clear vial	AG1T	1L Na Thiosulfate clear/amber glass
VG9T	40mL Na Thio. clear vial	AG1U	1liter unpres amber glass
VG9U	40mL unpreserved clear vial	AG2N	500mL HNO3 amber glass
BG1S	1liter H2SO4 clear glass	AG2S	500mL H2SO4 amber glass
BG1U	1liter unpres glass	AG3S	250mL H2SO4 amber glass
BG3H	250mL HCL Clear glass	AG2U	500mL unpres amber glass
BG3U	250mL Unpres Clear glass	AG3U	250mL unpres amber glass
WGDU	16oz clear soil jar	AG4U	125mL unpres amber glass
		AG5U	100mL unpres amber glass

Plastic	
BP1B	1L NAOH plastic
BP1N	1L HNO3 plastic
BP1S	1L H2SO4 plastic
BP1U	1L unpreserved plastic
BP1Z	1L NaOH, Zn Acetate
BP2B	500mL NAOH plastic
BP2N	500mL HNO3 plastic
BP2S	500mL H2SO4 plastic
BP2U	500mL unpreserved plastic
BP2Z	500mL NaOH, Zn Acetate
BP3B	250mL NaOH plastic
BP3F	250mL HNO3 plastic - field filtered
BP3N	250mL HNO3 plastic
BP3U	250mL unpreserved plastic
BP3S	250mL H2SO4 plastic
BP3Z	250mL NaOH, Zn Acetate
BP4U	125mL unpreserved plastic
BP4N	125mL HNO3 plastic
BP4S	125mL H2SO4 plastic
WPDU	16oz unpresserved plstic

Misc.	
I	Wipe/Swab
SP5T	120mL Coliform Na Thiosulfate
ZPLC	Ziploc Bag
AF	Air Filter
C	Air Cassettes
R	Terracore Kit
U	Summa Can

Matrix	
WT	Water
SL	Solid
NAL	Non-aqueous Liquid
OL	OIL
WP	Wipe
DW	Drinking Water

Work Order Number: 60473874

DC#_Title: ENV-FRM-LENE-0001 v07_Sample Container Count
Effective Date: 7/12/2024

2.14

Client: Rocksmith Geoeng

Profile/EZ # 109 all test for L-MW-34(D).

Site:

Notes Append to 60473874

COC Line Item	Matrix	VG9H	DG9H	DG9Q	VG9U	DG9U	DG9M	DG9B	BG1U	AG1H	AG1U	AG2U	AG3S	AG4U	AG5U	JGFU	WGKU	WGDU	BP1U	BP2U	BP3U	BP1N	BP3N	BP3F	BP3S	BP3B	BP3Z	WPDU	ZPLC	Other		
1																																
2																																
3	WT		2		L-MW-34 (D)								2	(4/26/25 12:10)					1			2	1				1						
4	WT		6										6						3			2	3				3		(MS/MSD)			
5																																
6																																
7																																
8																																
9																																
10																																
11																																
12																																

Container Codes

Glass			
DG9B	40mL bisulfate clear vial	WGKU	8oz clear soil jar
DG9H	40mL HCl amber voa vial	WGFU	4oz clear soil jar
DG9M	40mL MeOH clear vial	WG2U	2oz clear soil jar
DG9Q	40mL TSP amber vial	JGFU	4oz unpreserved amber wide
DG9S	40mL H2SO4 amber vial	AG0U	100mL unores amber glass
DG9T	40mL Na Thio amber vial	AG1H	1L HCl amber glass
DG9U	40mL amber unpreserved	AG1S	1L H2SO4 amber glass
VG9H	40mL HCl clear vial	AG1T	1L Na Thiosulfate clear/amber glass
VG9T	40mL Na Thio. clear vial	AG1U	1liter unpres amber glass
VG9U	40mL unpreserved clear vial	AG2N	500mL HNO3 amber glass
BG1S	1liter H2SO4 clear glass	AG2S	500mL H2SO4 amber glass
BG1U	1liter unpres glass	AG3S	250mL H2SO4 amber glass
BG3H	250mL HCL Clear glass	AG2U	500mL unpres amber glass
BG3U	250mL Unpres Clear glass	AG3U	250mL unpres amber glass
WGDU	16oz clear soil jar	AG4U	125mL unpres amber glass
		AG5U	100mL unpres amber glass

Plastic	
BP1B	1L NAOH plastic
BP1N	1L HNO3 plastic
BP1S	1L H2SO4 plastic
BP1U	1L unpreserved plastic
BP1Z	1L NaOH, Zn Acetate
BP2B	500mL NAOH plastic
BP2N	500mL HNO3 plastic
BP2S	500mL H2SO4 plastic
BP2U	500mL unpreserved plastic
BP2Z	500mL NaOH, Zn Acetate
BP3B	250mL NaOH plastic
BP3F	250mL HNO3 plastic - field filtered
BP3N	250mL HNO3 plastic
BP3U	250mL unpreserved plastic
BP3S	250mL H2SO4 plastic
BP3Z	250mL NaOH, Zn Acetate
BP4U	125mL unpreserved plastic
BP4N	125mL HNO3 plastic
BP4S	125mL H2SO4 plastic
WPDU	16oz unpresserved plstic

Misc.	
I	Wipe/Swab
SP5T	120mL Coliform Na Thiosulfate
ZPLC	Ziploc Bag
AF	Air Filter
C	Air Cassettes
R	Terracore Kit
U	Summa Can

Matrix	
WT	Water
SL	Solid
NAL	Non-aqueous Liquid
OL	OIL
WP	Wipe
DW	Drinking Water

Work Order Number: 60473874

3/4

DC#_Title: ENV-FRM-LENE-0001 v07_Sample Container Count
Effective Date: 7/12/2024

Client: Rocksmith Geoeng Profile/EZ #:

Site: Notes: Append to 60473874

COC Line Item	Matrix	VG9H	DG9H	DG9Q	VG9U	DG9U	DG9M	DG9B	BG1U	AG1H	AG1U	AG2U	AG3S	AG4U	AG5U	JGFU	WGKU	WGDU	BP1U	BP2U	BP3U	BP1N	BP3N	BP3F	BP3S	BP3B	BP3Z	WPDU	ZPLC	Other		
1	WT		2										2						1			2	1				1					
2	↓		↓										↓						↓			↓	↓				↓					
3																																
4																																
5																																
6																																
7	↓		↓										↓						↓			↓	↓				↓					
8																																
9																																
10																																
11																																
12																																

Container Codes

Glass			
DG9B	40mL bisulfate clear vial	WGKU	8oz clear soil jar
DG9H	40mL HCl amber voa vial	WGFU	4oz clear soil jar
DG9M	40mL MeOH clear vial	WG2U	2oz clear soil jar
DG9Q	40mL TSP amber vial	JGFU	4oz unpreserved amber wide
DG9S	40mL H2SO4 amber vial	AG0U	100mL unores amber glass
DG9T	40mL Na Thio amber vial	AG1H	1L HCl amber glass
DG9U	40mL amber unpreserved	AG1S	1L H2SO4 amber glass
VG9H	40mL HCl clear vial	AG1T	1L Na Thiosulfate clear/amber glass
VG9T	40mL Na Thio. clear vial	AG1U	1liter unpres amber glass
VG9U	40mL unpreserved clear vial	AG2N	500mL HNO3 amber glass
BG1S	1liter H2SO4 clear glass	AG2S	500mL H2SO4 amber glass
BG1U	1liter unpres glass	AG3S	250mL H2SO4 amber glass
BG3H	250mL HCL Clear glass	AG2U	500mL unpres amber glass
BG3U	250mL Unpres Clear glass	AG3U	250mL unpres amber glass
WGDU	16oz clear soil jar	AG4U	125mL unpres amber glass
		AG5U	100mL unpres amber glass

Plastic	
BP1B	1L NAOH plastic
BP1N	1L HNO3 plastic
BP1S	1L H2SO4 plastic
BP1U	1L unpreserved plastic
BP1Z	1L NaOH, Zn Acetate
BP2B	500mL NAOH plastic
BP2N	500mL HNO3 plastic
BP2S	500mL H2SO4 plastic
BP2U	500mL unpreserved plastic
BP2Z	500mL NaOH, Zn Acetate
BP3B	250mL NaOH plastic
BP3F	250mL HNO3 plastic - field filtered
BP3N	250mL HNO3 plastic
BP3U	250mL unpreserved plastic
BP3S	250mL H2SO4 plastic
BP3Z	250mL NaOH, Zn Acetate
BP4U	125mL unpreserved plastic
BP4N	125mL HNO3 plastic
BP4S	125mL H2SO4 plastic
WPDU	16oz unpresserved plstic

Misc.	
I	Wipe/Swab
SP5T	120mL Coliform Na Thiosulfate
ZPLC	Ziploc Bag
AF	Air Filter
C	Air Cassettes
R	Terracore Kit
U	Summa Can

Matrix	
WT	Water
SL	Solid
NAL	Non-aqueous Liquid
OL	OIL
WP	Wipe
DW	Drinking Water

Work Order Number: 60473874

4/4

DC#_Title: ENV-FRM-LENE-0001 v07_Sample Container Count
Effective Date: 7/12/2024

Client: Rocksmith Geoeng

Profile/EZ #:

Site:

Notes: ~~to~~ APPend to 6a173874

COC Line Item	Matrix	VG9H	DG9H	DG9Q	VG9U	DG9U	DG9M	DG9B	BG1U	AG1H	AG1U	AG2U	AG3S	AG4U	AG5U	JGFU	WGKU	WGDU	BP1U	BP2U	BP3U	BP1N	BP3N	BP3F	BP3S	BP3B	BP3Z	WPDU	ZPLC	Other		
1	WT																					2		(Only Log RAD)								
2	↓																					2										
3																																
4																																
5																																
6																																
7																																
8																																
9																																
10																																
11																																
12																																

Container Codes

Glass			
DG9B	40mL bisulfate clear vial	WGKU	8oz clear soil jar
DG9H	40mL HCl amber voa vial	WGFU	4oz clear soil jar
DG9M	40mL MeOH clear vial	WG2U	2oz clear soil jar
DG9Q	40mL TSP amber vial	JGFU	4oz unpreserved amber wide
DG9S	40mL H2SO4 amber vial	AG0U	100mL unores amber glass
DG9T	40mL Na Thio amber vial	AG1H	1L HCl amber glass
DG9U	40mL amber unpreserved	AG1S	1L H2SO4 amber glass
VG9H	40mL HCl clear vial	AG1T	1L Na Thiosulfate clear/amber glass
VG9T	40mL Na Thio. clear vial	AG1U	1liter unpres amber glass
VG9U	40mL unpreserved clear vial	AG2N	500mL HNO3 amber glass
BG1S	1liter H2SO4 clear glass	AG2S	500mL H2SO4 amber glass
BG1U	1liter unpres glass	AG3S	250mL H2SO4 amber glass
BG3H	250mL HCL Clear glass	AG2U	500mL unpres amber glass
BG3U	250mL Unpres Clear glass	AG3U	250mL unpres amber glass
WGDU	16oz clear soil jar	AG4U	125mL unpres amber glass
		AG5U	100mL unpres amber glass

Plastic	
BP1B	1L NAOH plastic
BP1N	1L HNO3 plastic
BP1S	1L H2SO4 plastic
BP1U	1L unpreserved plastic
BP1Z	1L NaOH, Zn Acetate
BP2B	500mL NAOH plastic
BP2N	500mL HNO3 plastic
BP2S	500mL H2SO4 plastic
BP2U	500mL unpreserved plastic
BP2Z	500mL NaOH, Zn Acetate
BP3B	250mL NaOH plastic
BP3F	250mL HNO3 plastic - field filtered
BP3N	250mL HNO3 plastic
BP3U	250mL unpreserved plastic
BP3S	250mL H2SO4 plastic
BP3Z	250mL NaOH, Zn Acetate
BP4U	125mL unpreserved plastic
BP4N	125mL HNO3 plastic
BP4S	125mL H2SO4 plastic
WPDU	16oz unpresserved plstic

Misc.	
I	Wipe/Swab
SP5T	120mL Coliform Na Thiosulfate
ZPLC	Ziploc Bag
AF	Air Filter
C	Air Cassettes
R	Terracore Kit
U	Summa Can

Matrix	
WT	Water
SL	Solid
NAL	Non-aqueous Liquid
OL	OIL
WP	Wipe
DW	Drinking Water

Work Order Number: 6a173874

WO# : 60473874

60473874

Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-LENE-0009_Sample Cor		
	Revision: 2	Effective Date: 01/12/2022	Issued By: Lenexa

Client Name: Rocksmith Geo

Courier: FedEx ☐ UPS ☐ VIA ☐ Clay ☐ PEX ☐ ECI ☐ Pace ☐ Xroads ☑ Client ☐ Other ☐

Tracking #: _____ Pace Shipping Label Used? Yes ☐ No ☑

Custody Seal on Cooler/Box Present: Yes ☑ No ☐ Seals intact: Yes ☑ No ☐

Packing Material: Bubble Wrap ☐ Bubble Bags ☑ Foam ☐ None ☐ Other ☐

Thermometer Used: T-301 **Type of Ice:** (Wet) Blue None

Cooler Temperature (°C): As-read 2.7/1.9/2.0 Corr. Factor +0.1 Corrected 2.4/2.0/2.1

Temperature should be above freezing to 6°C 6.9/2.7/17.7 1.0/12.8/13.2

Date and initials of person examining contents: PV 5/2/25

Chain of Custody present:	☑Yes ☐No ☐N/A	
Chain of Custody relinquished:	☑Yes ☐No ☐N/A	
Samples arrived within holding time:	☑Yes ☐No ☐N/A	
Short Hold Time analyses (<72hr):	☐Yes ☑No ☐N/A	
Rush Turn Around Time requested:	☐Yes ☑No ☐N/A	
Sufficient volume:	☑Yes ☐No ☐N/A	
Correct containers used:	☑Yes ☐No ☐N/A	
Pace containers used:	☑Yes ☐No ☐N/A	
Containers intact:	☑Yes ☐No ☐N/A	
Unpreserved 5035A / TX1005/1006 soils frozen in 48hrs?	☐Yes ☐No ☑N/A	
Filtered volume received for dissolved tests?	☐Yes ☑No ☐N/A	
Sample labels match COC: Date / time / ID / analyses	☑Yes ☐No ☐N/A	
Samples contain multiple phases? Matrix: WT	☐Yes ☑No ☐N/A	
Containers requiring pH preservation in compliance? (HNO_3, H_2SO_4, HCl<2; NaOH>9 Sulfide, NaOH>10 Cyanide) (Exceptions: VOA, Micro, O&G, KS TPH, OK-DRO) LOT#: 96888/88728	☑Yes ☐No ☐N/A	List sample IDs, volumes, lot #'s of preservative and the date/time added.
Cyanide water sample checks: Lead acetate strip turns dark? (Record only)	☐Yes ☐No	
Potassium iodide test strip turns blue/purple? (Preserve)	☐Yes ☐No	
Trip Blank present:	☐Yes ☑No ☐N/A	
Headspace in VOA vials (>6mm):	☐Yes ☐No ☐N/A	
Samples from USDA Regulated Area: State:	☐Yes ☐No ☑N/A	
Additional labels attached to 5035A / TX1005 vials in the field?	☐Yes ☐No ☑N/A	

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: _____

Pace® Location Requested (City/State):
Pace Analytical Kansas
9608 Loiret Blvd., Lenexa, KS 66219

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

60473874

Scan QR Code for instructions

Company Name:	Rocksmith Geoengineering, LLC.	Contact/Report To:	Mark Haddock
Street Address:	2320 Creve Coeur Mill Road, Maryland Heights, MO 63043	Phone #:	314-974-6578
		E-Mail:	mark.haddock@rocksmithgeo.com
		Cc E-Mail:	
Customer Project #:	COC# 2		
Project Name:	AMEREN LCPA-CA	Invoice To:	Mark Haddock
		Invoice E-Mail:	mark.haddock@rocksmithgeo.com
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	
		Quote #:	
Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [ ] ET		County / State origin of sample(s):	Missouri

Data Deliverables:
[ ] Level II [ ] Level III [ ] Level IV
[ ] EQUIS
[ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [ ] Yes [ ] No

Rush (Pre-approval required):
[ ] Same Day [ ] 1 Day [ ] 2 Day [ ] 3 Day [ ] Other _____

DW PWSID # or WW Permit # as applicable:

Date Results Requested:

Field Filtered (if applicable): [ ] Yes [ ] No
Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Composite Start Date	Composite Start Time	Collected or Composite End Date	Collected or Composite End Time	# Cont.	Res. Chlorine Results	Res. Chlorine Units	Chloride/Fluoride/Sulfate	TDS / Alkalinity	COD / TOC	App III and Cat/An Metals (200.7)*	Appendix IV Metals (200.7/200.8/7470)*	UWL Metals (200.7)***	TOX	Radium 226 & Radium 228	Sulfide	Ferrous/Ferric Iron	Sample Comment	Preservation non-conformance identified for sample.
Specify Container Size **										1	1	3	3	3	3	3	1	3	6		
Identify Container Preservative Type***										1	1	3	2	2	2	3	2	6	4		
L-AMW-8	WT																				
L-BMW-1S	WT																				
L-BMW-2S	WT																				
L-LMW-1S	WT																				
L-LMW-2S	WT																				
L-LMW-4S	WT																				
L-LMW-7S	WT	G			4-30-25	1619	9			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
L-LMW-8S	WT	G			4-30-25	1420	9			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
L-MW-24	WT																				
L-MW-26	WT	G			4-30-25	1222	9			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) 90mL, (10) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only
Proj. Mgr: Jamie Church
AcctNum / Client ID:
Table #:
Profile / Template: 15857
Prelog / Bottle Ord. ID: EZ 3244555

Additional Instructions from Pace®:
App III and Cat/An Metals - EPA 200.7: Fe, Mg, Mn, K, Na, Ca, B
**App IV Metals - EPA 200.7 -Ba,Be,Co,Pb,Li,Mo & 200.8 Metals - Sb, As,Cd,Cr,Se,Tl +7470 Hg
***UWL Metals - 200.7: Al, Cu, Ni, Ag, Zn + Hardness

Collected By: (Printed Name) Grant Morey
Signature:

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)	On Ice:
6	T-301	+0.1	2.4/2.0/2.1/1.0	12.8/13.2	

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Rocksmith	5-1-25 / 0800		5/2/25 0700
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

Tracking Number:

Delivered by: [ ] In- Person [ ] Courier
[ ] FedEX [ ] UPS [ ] Other

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

Pace® Location Requested (City/State):
Pace Analytical Kansas
9608 Loiret Blvd., Lenexa, KS 66219

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

6047387 4

Scan QR Code for instructions

Company Name:	Rocksmith Geoengineering, LLC.	Contact/Report To:	Mark Haddock
Street Address:	2320 Creve Coeur Mill Road, Maryland Heights, MO 63043	Phone #:	314-974-6578
		E-Mail:	mark.haddock@rocksmithgeo.com
		Cc E-Mail:	
Customer Project #:	COC# 2		
Project Name:	AMEREN LCPA-CA	Invoice To:	Mark Haddock
		Invoice E-Mail:	mark.haddock@rocksmithgeo.com
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [ ] ET

County / State origin of sample(s): Missouri

Data Deliverables:
[ ] Level II [ ] Level III [ ] Level IV
[ ] EQUIS
[ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [ ] Yes [ ] No

Rush (Pre-approval required):
[ ] Same Day [ ] 1 Day [ ] 2 Day [ ] 3 Day [ ] Other _____

DW PWSID # or WW Permit # as applicable:

Date Results Requested:

Field Filtered (if applicable): [ ] Yes [ ] No
Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

Specify Container Size **

1	1	3	3	3	3	3	1	3	6

Identify Container Preservative Type***

1	1	3	2	2	2	3	2	6	4

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) 90mL, (10) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Analysis Requested

Customer Sample ID	Matrix *	Comp / Grab	Composite Start Date	Composite Start Time	Collected or Composite End Date	Collected or Composite End Time	# Cont.	Res. Chlorine Results	Res. Chlorine Units	Chloride/Fluoride/Sulfate	TDS / Alkalinity	COD / TOC	App III and Cat/An Metals (200.7)*	Appendix IV Metals (200.7/200.8/7470)*	UWL Metals (200.7)***	TOX	Radium 226 & Radium 228	Sulfide	Ferrous/Ferric Iron	Sample Comment	Preservation non-conformance identified for sample.
L-MW-33(D)	WT																				
L-MW-34(D)	WT																				
L-MW-35(D)	WT																				
L-S-1	WT	G			4-30-25	1110	9			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
L-TP-1D	WT																				
L-TP-2M	WT	G			4-30-25	1030	9			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
L-TP-2D	WT	G			4-30-25	1119	9			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
L-TP-3M	WT																				
L-TP-3D	WT																				
L-TP-4D	WT																				

Lab Use Only
Proj. Mgr: Jamie Church
AcctNum / Client ID:
Table #:
Profile / Template: 15857
Prelog / Bottle Ord. ID: EZ 3244555

Additional Instructions from Pace®:
App III and Cat/An Metals - EPA 200.7: Fe, Mg, Mn, K, Na, Ca, B
**App IV Metals - EPA 200.7 -Ba,Be,Co,Pb,Li,Mo & 200.8 Metals - Sb, As,Cd,Cr,Se,Tl +7470 Hg
***UWL Metals - 200.7: Al, Cu, Ni, Ag, Zn + Hardness

Collected By:
(Printed Name) Grant Morey
Signature:

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)	On Ice:
6	T-301	+0.1	2-4/2.0/2.1/1.0		

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
Rocksmith	5-1-25 / 0800		5/2/25 0700	12.8/13.2
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Delivered by: [ ] In- Person [ ] Courier
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	[ ] FedEX [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: 2 of 3

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

Pace® Location Requested (City/State):
Pace Analytical Kansas
9608 Loiret Blvd., Lenexa, KS 66219

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

60473874

Scan QR Code for instructions

Company Name:	Rocksmith Geoengineering, LLC.	Contact/Report To:	Mark Haddock
Street Address:	2320 Creve Coeur Mill Road, Maryland Heights, MO 63043	Phone #:	314-974-6578
		E-Mail:	mark.haddock@rocksmithgeo.com
		Cc E-Mail:	
Customer Project #:	COC# 2		
Project Name:	AMEREN LCPA-CA	Invoice To:	Mark Haddock
		Invoice E-Mail:	mark.haddock@rocksmithgeo.com
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	
		Quote #:	
Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [ ] ET		County / State origin of sample(s):	Missouri

Data Deliverables:
[ ] Level II [ ] Level III [ ] Level IV
[ ] EQUIS
[ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [ ] Yes [ ] No

Rush (Pre-approval required):
[ ] Same Day [ ] 1 Day [ ] 2 Day [ ] 3 Day [ ] Other _____

DW PWSID # or WW Permit # as applicable:

Date Results Requested:

Field Filtered (if applicable): [ ] Yes [ ] No
Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Composite Start Date	Composite Start Time	Collected or Composite End Date	Collected or Composite End Time	# Cont.	Res. Chlorine Results	Res. Chlorine Units
L-AM-1S	WT								
L-AM-1D	WT								
L-CA-DUP-1	WT								
L-CA-DUP-2	WT								
L-CA-DUP-3	WT								
L-CA-FB-1	WT								
L-CA-FB-2	WT								
L-CA-FB-3	WT	G			4-30-25	1115	9		
L-MS-1	WT								
L-MSD-1	WT								

Specify Container Size **: 1 1 3 3 3 3 3 1 3 6

Identify Container Preservative Type***: 1 1 3 2 2 2 3 2 6 4

Analysis Requested

Chloride/Fluoride/Sulfate	TDS / Alkalinity	COD / TOC	App III and Cat/An Metals (200.7)*	Appendix IV Metals (200.7/200.8/7470)*	UWL Metals (200.7)***	TOX	Radium 226 & Radium 228	Sulfide	Ferrous/Ferric Iron
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) 90mL, (10) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only
Proj. Mgr: Jamie Church
AcctNum / Client ID:
Table #:
Profile / Template: 15857
Prelog / Bottle Ord. ID: EZ 3244555

Sample Comment

Preservation non-conformance identified for sample.

Additional Instructions from Pace®:
App III and Cat/An Metals - EPA 200.7: Fe, Mg, Mn, K, Na, Ca, B
**App IV Metals - EPA 200.7 -Ba,Be,Co,Pb,Li,Mo & 200.8 Metals - Sb, As,Cd,Cr,Se,Tl +7470 Hg
***UWL Metals - 200.7: Al, Cu, Ni, Ag, Zn + Hardness

Collected By:
(Printed Name) Grant Morey
Signature:

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)	On Ice:
6	T-361	+0.1		2.4/2.0/2.1/1.0	

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
Rocksmith	5-1-25/0800			12.8/13.2
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Delivered by: [ ] In- Person [ ] Courier
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	[ ] FedEx [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: 3 of 3

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

1/3

Client: Rocksmith Geoeng

Profile/EZ # Only print what you log.

Site:

Notes Attend to 6a473874

COC Line Item	Matrix	VG9H	DG9H	DG9Q	VG9U	DG9U	DG9M	DG9B	BG1U	AG1H	AG1U	AG2U	AG3S	AG4U	AG5U	JGFU	WGKU	WGDU	BP1U	BP2U	BP3U	BP1N	BP3N	BP3F	BP3S	BP3B	BP3Z	WPDU	ZPLC	Other		
1																																
2																																
3																																
4																																
5																																
6																																
7	WT		2										2						1			2	1				1					
8	WT		2										2						1			2	1				1					
9																																
10	WT		2										2						1			2	1				1					
11																																
12																																

Container Codes

Glass			
DG9B	40mL bisulfate clear vial	WGKU	8oz clear soil jar
DG9H	40mL HCl amber voa vial	WGFU	4oz clear soil jar
DG9M	40mL MeOH clear vial	WG2U	2oz clear soil jar
DG9Q	40mL TSP amber vial	JGFU	4oz unpreserved amber wide
DG9S	40mL H2SO4 amber vial	AG0U	100mL unores amber glass
DG9T	40mL Na Thio amber vial	AG1H	1L HCl amber glass
DG9U	40mL amber unpreserved	AG1S	1L H2SO4 amber glass
VG9H	40mL HCl clear vial	AG1T	1L Na Thiosulfate clear/amber glass
VG9T	40mL Na Thio. clear vial	AG1U	1liter unpres amber glass
VG9U	40mL unpreserved clear vial	AG2N	500mL HNO3 amber glass
BG1S	1liter H2SO4 clear glass	AG2S	500mL H2SO4 amber glass
BG1U	1liter unpres glass	AG3S	250mL H2SO4 amber glass
BG3H	250mL HCL Clear glass	AG2U	500mL unpres amber glass
BG3U	250mL Unpres Clear glass	AG3U	250mL unpres amber glass
WGDU	16oz clear soil jar	AG4U	125mL unpres amber glass
		AG5U	100mL unpres amber glass

Plastic	
BP1B	1L NAOH plastic
BP1N	1L HNO3 plastic
BP1S	1L H2SO4 plastic
BP1U	1L unpreserved plastic
BP1Z	1L NaOH, Zn Acetate
BP2B	500mL NAOH plastic
BP2N	500mL HNO3 plastic
BP2S	500mL H2SO4 plastic
BP2U	500mL unpreserved plastic
BP2Z	500mL NaOH, Zn Acetate
BP3B	250mL NaOH plastic
BP3F	250mL HNO3 plastic - field filtered
BP3N	250mL HNO3 plastic
BP3U	250mL unpreserved plastic
BP3S	250mL H2SO4 plastic
BP3Z	250mL NaOH, Zn Acetate
BP4U	125mL unpreserved plastic
BP4N	125mL HNO3 plastic
BP4S	125mL H2SO4 plastic
WPDU	16oz unpresserved plstic

Misc.	
I	Wipe/Swab
SP5T	120mL Coliform Na Thiosulfate
ZPLC	Ziploc Bag
AF	Air Filter
C	Air Cassettes
R	Terracore Kit
U	Summa Can

Matrix	
WT	Water
SL	Solid
NAL	Non-aqueous Liquid
OL	OIL
WP	Wipe
DW	Drinking Water

Work Order Number: 6C473874

2/3

Client: Rocksmith Geoeng

Profile/EZ #

Site:

Notes Append to 60473874

COC Line Item	Matrix	VG9H	DG9H	DG9Q	VG9U	DG9U	DG9M	DG9B	BG1U	AG1H	AG1U	AG2U	AG3S	AG4U	AG5U	JGFU	WGKU	WGDU	BP1U	BP2U	BP3U	BP1N	BP3N	BP3F	BP3S	BP3B	BP3Z	WPDU	ZPLC	Other		
1																																
2																																
3																																
4	WT		2										2						1			2	1				1					
5																																
6	WT		2										2						1			2	1				1					
7	WT		2										2						1			2	1				1					
8																																
9																																
10																																
11																																
12																																

Container Codes

Glass			
DG9B	40mL bisulfate clear vial	WGKU	8oz clear soil jar
DG9H	40mL HCl amber voa vial	WGFU	4oz clear soil jar
DG9M	40mL MeOH clear vial	WG2U	2oz clear soil jar
DG9Q	40mL TSP amber vial	JGFU	4oz unpreserved amber wide
DG9S	40mL H2SO4 amber vial	AG0U	100mL unores amber glass
DG9T	40mL Na Thio amber vial	AG1H	1L HCl amber glass
DG9U	40mL amber unpreserved	AG1S	1L H2SO4 amber glass
VG9H	40mL HCl clear vial	AG1T	1L Na Thiosulfate clear/amber glass
VG9T	40mL Na Thio. clear vial	AG1U	1liter unpres amber glass
VG9U	40mL unpreserved clear vial	AG2N	500mL HNO3 amber glass
BG1S	1liter H2SO4 clear glass	AG2S	500mL H2SO4 amber glass
BG1U	1liter unpres glass	AG3S	250mL H2SO4 amber glass
BG3H	250mL HCL Clear glass	AG2U	500mL unpres amber glass
BG3U	250mL Unpres Clear glass	AG3U	250mL unpres amber glass
WGDU	16oz clear soil jar	AG4U	125mL unpres amber glass
		AG5U	100mL unpres amber glass

Plastic	
BP1B	1L NAOH plastic
BP1N	1L HNO3 plastic
BP1S	1L H2SO4 plastic
BP1U	1L unpreserved plastic
BP1Z	1L NaOH, Zn Acetate
BP2B	500mL NAOH plastic
BP2N	500mL HNO3 plastic
BP2S	500mL H2SO4 plastic
BP2U	500mL unpreserved plastic
BP2Z	500mL NaOH, Zn Acetate
BP3B	250mL NaOH plastic
BP3F	250mL HNO3 plastic - field filtered
BP3N	250mL HNO3 plastic
BP3U	250mL unpreserved plastic
BP3S	250mL H2SO4 plastic
BP3Z	250mL NaOH, Zn Acetate
BP4U	125mL unpreserved plastic
BP4N	125mL HNO3 plastic
BP4S	125mL H2SO4 plastic
WPDU	16oz unpresserved plstic

Misc.	
I	Wipe/Swab
SP5T	120mL Coliform Na Thiosulfate
ZPLC	Ziploc Bag
AF	Air Filter
C	Air Cassettes
R	Terracore Kit
U	Summa Can

Matrix	
WT	Water
SL	Solid
NAL	Non-aqueous Liquid
OL	OIL
WP	Wipe
DW	Drinking Water

Work Order Number: 60473874

3/3

Client: Rocksmith Geweng

Profile/EZ #

Site:

Notes Append to 60473874

COC Line Item	Matrix	VG9H	DG9H	DG9Q	VG9U	DG9U	DG9M	DG9B	BG1U	AG1H	AG1U	AG2U	AG3S	AG4U	AG5U	JGFU	WGKU	WGDU	BP1U	BP2U	BP3U	BP1N	BP3N	BP3F	BP3S	BP3B	BP3Z	WPDU	ZPLC	Other		
1																																
2																																
3																																
4																																
5																																
6																																
7																																
8	WT		2										2						1			2	1				1					
9																																
10																																
11																																
12																																

Container Codes

Glass			
DG9B	40mL bisulfate clear vial	WGKU	8oz clear soil jar
DG9H	40mL HCl amber voa vial	WGFU	4oz clear soil jar
DG9M	40mL MeOH clear vial	WG2U	2oz clear soil jar
DG9Q	40mL TSP amber vial	JGFU	4oz unpreserved amber wide
DG9S	40mL H2SO4 amber vial	AG0U	100mL unores amber glass
DG9T	40mL Na Thio amber vial	AG1H	1L HCl amber glass
DG9U	40mL amber unpreserved	AG1S	1L H2SO4 amber glass
VG9H	40mL HCl clear vial	AG1T	1L Na Thiosulfate clear/amber glass
VG9T	40mL Na Thio. clear vial	AG1U	1liter unpres amber glass
VG9U	40mL unpreserved clear vial	AG2N	500mL HNO3 amber glass
BG1S	1liter H2SO4 clear glass	AG2S	500mL H2SO4 amber glass
BG1U	1liter unpres glass	AG3S	250mL H2SO4 amber glass
BG3H	250mL HCL Clear glass	AG2U	500mL unpres amber glass
BG3U	250mL Unpres Clear glass	AG3U	250mL unpres amber glass
WGDU	16oz clear soil jar	AG4U	125mL unpres amber glass
		AG5U	100mL unpres amber glass

Plastic	
BP1B	1L NAOH plastic
BP1N	1L HNO3 plastic
BP1S	1L H2SO4 plastic
BP1U	1L unpreserved plastic
BP1Z	1L NaOH, Zn Acetate
BP2B	500mL NAOH plastic
BP2N	500mL HNO3 plastic
BP2S	500mL H2SO4 plastic
BP2U	500mL unpreserved plastic
BP2Z	500mL NaOH, Zn Acetate
BP3B	250mL NaOH plastic
BP3F	250mL HNO3 plastic - field filtered
BP3N	250mL HNO3 plastic
BP3U	250mL unpreserved plastic
BP3S	250mL H2SO4 plastic
BP3Z	250mL NaOH, Zn Acetate
BP4U	125mL unpreserved plastic
BP4N	125mL HNO3 plastic
BP4S	125mL H2SO4 plastic
WPDU	16oz unpresserved plstic

Misc.	
I	Wipe/Swab
SP5T	120mL Coliform Na Thiosulfate
ZPLC	Ziploc Bag
AF	Air Filter
C	Air Cassettes
R	Terracore Kit
U	Summa Can

Matrix	
WT	Water
SL	Solid
NAL	Non-aqueous Liquid
OL	OIL
WP	Wipe
DW	Drinking Water

Work Order Number: 60473874

Internal Transfer Chain of Custody

☐ Rush Multiplier_____X
☐ Samples Pre-Logged into eCOC

State Of Origin: MO
Cert. Needed: ☐ Yes ☒ No

G015

Workorder: 60473874 **Workorder Name:** AMEREN LCPA-CA

Owner Received Date: 4/26/2025 **Results Requested By:** 5/19/2025

Report To	Subcontract To
Jamie Church Pace Analytical Kansas 9608 Loiret Blvd. Lenexa, KS 66219 Phone 314-838-7223	Pace National 12065 Lebanon Rd Mt. Juliet, TN 37122 Phone (615) 758-5858

U854344

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers: H2SO4						Requested Analysis: Total Organic Halogens												LAB USE ONLY
1	L-BMW-1S	PS	4/24/2025 11:50	60473874001	Water	1						X												-01
2	L-BMW-2S	PS	4/24/2025 14:15	60473874002	Water	1						X												-02
3	L-LMW-2S	PS	4/25/2025 12:05	60473874003	Water	1						X												-03
4	L-MW-33(D)	PS	4/24/2025 15:25	60473874004	Water	1						X												-04
5	L-TP-1D	RQS	4/25/2025 09:50	60473874005	Water	1 BMH S/R						X												-05
6	L-TP-3M	PS	4/24/2025 12:45	60473874006	Water	1						X												-06
7	L-TP-3D	PS	4/24/2025 13:50	60473874007	Water	1						X												-07
8	L-TP-4D	PS	4/24/2025 10:45	60473874008	Water	1						X												-08
9	L-CA-DUP-1	PS	4/24/2025 08:00	60473874009	Water	1						X												-09
10	L-AMW-8	PS	4/28/2025 14:10	60473874012	Water	1						X												-10
11	L-LMW-1S	PS	4/29/2025 13:47	60473874013	Water	1						X												-11
12	L-LMW-4S	PS	4/28/2025 13:30	60473874014	Water	1						X												-12
13	L-MW-24	PS	4/28/2025 15:40	60473874015	Water	1						X												-13
14	L-MW-34(D)	PS	4/28/2025 12:10	60473874016	Water	1						X												-14
15	L-MW-35(D)	RQS	4/28/2025 13:50	60473874017	Water	1 BMH S/R						X												-15
16	L-AM-1S	PS	4/29/2025 10:45	60473874018	Water	1						X												-16
17	L-CA-DUP-2	PS	4/28/2025 00:00	60473874019	Water	1						X												-17
18	L-CA-DUP-3	PS	4/28/2025 00:00	60473874020	Water	1						X												-18
19	L-CA-FB-1	PS	4/29/2025 09:10	60473874021	Water	1						X												-19

Internal Transfer Chain of Custody

☐ Rush Multiplier_____X
☐ Samples Pre-Logged into eCOC

State Of Origin: MO
Cert. Needed: ☐ Yes ☒ No

Workorder: 60473874 **Workorder Name:** AMEREN LCPA-CA
Owner Received Date: 4/26/2025 **Results Requested By:** 5/19/2025

Report To	Subcontract To
Jamie Church Pace Analytical Kansas 9608 Loiret Blvd. Lenexa, KS 66219 Phone 314-838-7223	Pace National 12065 Lebanon Rd Mt. Juliet, TN 37122 Phone (615) 758-5858

L1854344

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers: H2SO4	Total Organic Halogens	LAB USE ONLY
20	L-CA-FB-2	PS	4/29/2025 09:55	60473874022	Water	1	X	-20
21	L-AM-1D	PS	4/29/2025 09:25	60473874025	Water	1	X	-21
22								
23								
24								

Transfers	Released By	Date/Time	Received By	Date/Time
1	JA Pace	5/1/25 1100	[signature]	5/2/25 900
2				
3				

Comments: OK

Location: 60-R28-S2

Cooler Temperature on Receipt _____°C	Custody Seal Y or N	Received on Ice Y or N	Samples Intact Y or N
		Y	Y

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

4453 8931 0708

Sample Receipt Checklist

eal Present/Intact:	Y N NP	If Applicable	
igned/Accurate:	Y N	VOA Zero Headspace:	Y N
es arrive intact:	Y N	Pres. Correct/Check:	Y N
ct bottles used:	Y N		
cient volume sent:	Y N	Condition: NCF OK	
reen <0.5 mR/hr:	Y N	TR 2.1+0.4=2.5	

Internal Transfer Chain of Custody

☐ Rush Multiplier____X
☐ Samples Pre-Logged into eCOC

State Of Origin: MO
Cert. Needed: ☐ Yes ☒ No
Owner Received Date: 4/26/2025 **Results Requested By:** 5/19/2025

Workorder: 60473874 **Workorder Name:** AMEREN LCPA-CA

Report To

Jamie Church
Pace Analytical Kansas
9608 Loiret Blvd.
Lenexa, KS 66219
Phone 314-838-7223

Subcontract To

Pace Analytical Pittsburgh
1638 Roseytown Road
Suites 2,3, & 4
Greensburg, PA 15601
Phone (724)850-5600

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers: HNO3						Requested Analysis: Radium 226	Radium 228										LAB USE ONLY
1	L-BMW-1S	PS	4/24/2025 11:50	60473874001	Water	2						X	X									001	
2	L-BMW-2S	PS	4/24/2025 14:15	60473874002	Water	2						X	X									002	
3	L-LMW-2S	PS	4/25/2025 12:05	60473874003	Water	2						X	X									003	
4	L-MW-33(D)	PS	4/24/2025 15:25	60473874004	Water	2						X	X									004	
5	L-TP-1D	RQS	4/25/2025 09:50	60473874005	Water	2						X	X									005	parent sample for -010/011
6	L-TP-3M	PS	4/24/2025 12:45	60473874006	Water	2						X	X									006	
7	L-TP-3D	PS	4/24/2025 13:50	60473874007	Water	2						X	X									007	
8	L-TP-4D	PS	4/24/2025 10:45	60473874008	Water	2						X	X									008	
9	L-CA-DUP-1	PS	4/24/2025 08:00	60473874009	Water	2						X	X									009	
10	L-MS-1	PS	4/25/2025 09:50	60473874010	Water	2						X	X									010	
11	L-MSD-1	PS	4/25/2025 09:50	60473874011	Water	2						X	X									011	
12	L-AMW-8	PS	4/28/2025 14:10	60473874012	Water	2						X	X									012	
13	L-LMW-1S	PS	4/29/2025 13:47	60473874013	Water	2						X	X									013	
14	L-LMW-4S	PS	4/28/2025 13:30	60473874014	Water	2						X	X									014	
15	L-MW-24	PS	4/28/2025 15:40	60473874015	Water	2						X	X									015	
16	L-MW-34(D)	PS	4/28/2025 12:10	60473874016	Water	2						X	X									016	
17	L-MW-35(D)	RQS	4/28/2025 13:50	60473874017	Water	2						X	X									017	parent sample for -023/024
18	L-AM-1S	PS	4/29/2025 10:45	60473874018	Water	2						X	X									018	
19	L-CA-DUP-2	PS	4/28/2025 00:00	60473874019	Water	2						X	X									019	

PO#: 30775922

30775922

Internal Transfer Chain of Custody

☐ Rush Multiplier____X
☐ Samples Pre-Logged into eCOC

State Of Origin: MO
Cert. Needed: ☐ Yes ☒ No
Owner Received Date: 4/26/2025 **Results Requested By:** 5/19/2025

Workorder: 60473874 **Workorder Name:** AMEREN LCPA-CA

Report To	Subcontract To
Jamie Church Pace Analytical Kansas 9608 Loiret Blvd. Lenexa, KS 66219 Phone 314-838-7223	Pace Analytical Pittsburgh 1638 Roseytown Road Suites 2,3, & 4 Greensburg, PA 15601 Phone (724)850-5600

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers: HNO3	Requested Analysis: Radium 226	Radium 228	LAB USE ONLY
20	L-CA-DUP-3	PS	4/28/2025 00:00	60473874020	Water	2	X	X	020
21	L-CA-FB-1	PS	4/29/2025 09:10	60473874021	Water	2	X	X	021
22	L-CA-FB-2	PS	4/29/2025 09:55	60473874022	Water	2	X	X	022
23	L-MS-2	PS	4/28/2025 13:50	60473874023	Water	2	X	X	023
24	L-MSD-2	PS	4/28/2025 13:50	60473874024	Water	2	X	X	024
25	L-AM-1D	PS	4/29/2025 09:25	60473874025	Water	2	X	X	025

Transfers	Released By	Date/Time	Received By	Date/Time
1	SAPACE	5/1/25 1700	[signature]	5/2/25
2				
3				

Comments
9:40
Location: RECEIVING

Cooler Temperature on Receipt ____ °C | **Custody Seal** Y or (N) | **Received on Ice** Y or (N) | **Samples Intact** (Y) or N

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

WO#: 30775922
PM: CMC Due Date: 05/23/25
CLIENT: PACE_60_LEKS

DC#_Title: ENV-FRM-GBUR-0088 v07_Sample Condition Upon Receipt-Greensburg

Effective Date: 01/04/2024

WO# : 30775922

PM: CMC Due Date: 05/23/25

CLIENT: PACE_60_LEKS

Client Name: Pace-KS

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other

Tracking Number: 4453 8931 0800 / 4453 8931 0796 4453 8931 0811

Initial / Date

Examined By: PS 5/2/25

Labeled By: JML 5/3/25

Temped By:

Custody Seal on Cooler/Box Present: ☐ Yes ☑ No Seals Intact: ☐ Yes ☑ No

Thermometer Used: — Type of Ice: Wet Blue None

Cooler Temperature: Observed Temp — °C Correction Factor: — °C Final Temp: — °C

Temp should be above freezing to 6°C

pH paper Lot# 1003241 D.P.D. Residual Chlorine Lot #

Comments:	Yes	No	NA	
Chain of Custody Present	✓			1.
Chain of Custody Filled Out:	✓			2.
-Were client corrections present on COC		✓		
Chain of Custody Relinquished	✓			3.
Sampler Name & Signature on COC:		✓		4.
Sample Labels match COC:	✓			5.
-Includes date/time/ID Matrix:	WT			
Samples Arrived within Hold Time:	✓			6.
Short Hold Time Analysis (<72hr remaining):		✓		7.
Rush Turn Around Time Requested:		✓		8.
Sufficient Volume:	✓			9.
Correct Containers Used:	✓			10.
-Pace Containers Used	✓			
Containers Intact:	✓			11.
Orthophosphate field filtered:			✓	12.
Hex Cr Aqueous samples field filtered:			✓	13.
Organic Samples checked for dichlorination			✓	14:
Filtered volume received for dissolved tests:			✓	15:
All containers checked for preservation:	✓			16.
exceptions: VOA, coliform, TOC, O&G, Phenolics, Radon, non-aqueous matrix				pH<2
All containers meet method preservation requirements:	✓			Initial when completed JML Date/Time of Preservation
				Lot# of added Preservative
8260C/D: Headspace in VOA Vials (> 6mm)			✓	17.
624.1: Headspace in VOA Vials (0mm)			✓	18.
Radon: Headspace in RAD Vials (0mm)			✓	19.
Trip Blank Present:			✓	Trip blank custody seal present? YES or NO
Rad Samples Screened <.05 mrem/hr.	✓			Initial when completed PS Date: 5/2/25 Survey Meter SN: 25014380

Comments:

Note: For NC compliance samples with discrepancies, a copy of this form must be sent to the DEHNR Certification office.
PM Review is documented electronically in LIMS through the SRF Review schedule in the Workorder Edit Screen.

Qualtrax ID: 55680

Memorandum

October 30, 2025

To:	Project File Rocksmith Geoengineering, LLC	**Project Number:**	23007-25
CC:	Mark Haddock, Jeffrey Ingram		
From:	Emma Ludwig	**Email:**	Emma.Ludwig@Rocksmithgeo.com
RE:	**Data Validation Summary, Labadie Energy Center – LCPA-CA – Data Package 60473874**		

The following is a summary of instances where quality control criteria in the functional guidelines were not met and data qualification was required:

- When a compound was detected in a sample result between the Method Detection Limit (MDL) and Practical Quantification Limit (PQL), the results were recorded at the detection value and qualified as estimates (J).
- When a duplicate criterion was not met, the associated sample result was qualified as an estimate (J for detects, UJ for non-detects).
- When a matrix spike/matrix spike duplicate (MS/MSD) criterion was not met, the associated sample result was qualified as an estimate (J, J+ for estimates based high, and J- for estimates based low). When the associated sample result was a non-detect, and matrix spike recovery was below 10%, the result was rejected (R).

QA LEVEL II - INORGANIC DATA EVALUATION CHECKLIST

Company Name: Rocksmith Geoengineering
Project Manager: J. Ingram
Project Name: Ameren LCPA-CA
Project Number: 23007-25
Reviewer: E. Ludwig
Validation Date: 10/30/2025

Laboratory: Pace Analytical
SDG #: 60473874
Analytical Method (type and no.): EPA 200.7/200.8/7470 (Total Metals); SM 2320B (Alkalinity); SM 2540C (TDS); EPA 300.0 (Anions); SM 2540C (TDS); EPA 300.0
Matrix: ☐ Air ☐ Soil/Sed. ☒ Water ☐ Waste ☐ EPA 903.1/904.0 (Radium 226+228)
Sample Names: Sample Names: L-BMW-1S, L-BMW-2S, L-LMW-2S, L-MW-33(D), L-TP-1D, L-TP-3M, L-TP-3D, L-TP-4D, L-CA-DUP-1, L-MS-1, L-MSD-1, L-MSD-1, L-AWM-8, L-LMW-1S, L-LMW-4S, L-MW-24, L-MW-34(D), L-MW-35(D), L-AM-1S, L-CA-DUP-2, L-CA-DUP-3, L-CA-FB-1, L-CA-FB-2, L-MS-2, L-MSD-2, L-AM-1D, L-LMW-7S, L-LMW-8S, L-MW-26, L-S-1, L-TP-2M, L-TP-2D, L-CA-FB-3

NOTE: Please provide calculation in Comment areas or on the back (if on the back please indicate in comment areas).

Field Information	YES	NO	NA	COMMENTS
a) Sampling dates noted?	☒	☐	☐	4/24/2025-4/30/2025
b) Sampling team indicated?	☒	☐	☐	VAH/GTM
c) Sample location noted?	☒	☐	☐	
d) Sample depth indicated (Soils)?	☐	☐	☒	
e) Sample type indicated (grab/composite)?	☒	☐	☐	Grab
f) Field QC noted?	☒	☐	☐	See Notes
g) Field parameters collected (note types)?	☒	☐	☐	pH, Spec Cond, Turb, Temp, DO, ORP
h) Field Calibration within control limits?	☒	☐	☐	
i) Notations of unacceptable field conditions/performances from field logs or field notes?	☐	☐	☐	
j) Does the laboratory narrative indicate deficiencies?	☐	☒	☒	No lab narrative.

Note Deficiencies:

Chain-of-Custody (COC)	YES	NO	NA	COMMENTS
a) Was the COC properly completed?	☐	☒	☐	See Notes
b) Was the COC signed by both field and laboratory personnel?	☒	☐	☐	
c) Were samples received in good condition?	☒	☐	☐	

General (reference QAPP or Method)	YES	NO	NA	COMMENTS
a) Were hold times met for sample pretreatment?	☒	☐	☐	
b) Were hold times met for sample analysis?	☐	☒	☐	See Notes
c) Were the correct preservatives used?	☒	☐	☐	
d) Was the correct method used?	☒	☐	☐	
e) Were appropriate reporting limits achieved?	☒	☐	☐	
f) Were any sample dilutions noted?	☒	☐	☐	
g) Were any matrix problems noted?	☐	☒	☐	

QA LEVEL II - INORGANIC DATA EVALUATION CHECKLIST

Blanks	YES	NO	NA	COMMENTS
a) Were analytes detected in the method blank(s)?	x			See Notes
b) Were analytes detected in the field blank(s)?	x			See Notes
c) Were analytes detected in the equipment blank(s)?			x	N/A
d) Were analytes detected in the trip blank(s)?			x	N/A

Laboratory Control Sample (LCS)	YES	NO	NA	COMMENTS
a) Was a LCS analyzed once per SDG?	x			
b) Were the proper analytes included in the LCS?	x			
c) Was the LCS accuracy criteria met?	x			

Duplicates	YES	NO	NA	COMMENTS
a) Were field duplicates collected (note original and duplicate sample names)?	x			See Notes
b) Were field dup. precision criteria met (note RPD)?		x		See Notes
c) Were lab duplicates analyzed (note original and duplicate samples)?	x			See Lab packet for sample list
d) Were lab dup. precision criteria met (note RPD)?	x			

Blind Standards	YES	NO	NA	COMMENTS
a) Was a blind standard used (indicate name, analytes included and concentrations)?			x	
b) Was the %D within control limits?			x	

Matrix Spike/Matrix Spike Duplicate (MS/MSD)	YES	NO	NA	COMMENTS
a) Was MS accuracy criteria met?		x		See Notes
Recovery could not be calculated since sample contained high concentration of analyte?			x	
b) Was MSD accuracy criteria met?		x		See Notes
Recovery could not be calculated since sample contained high concentration of analyte?			x	
c) Were MS/MSD precision criteria met?	x			

Comments/Notes:

Field QC Samples: L-CA-DUP-1 associated w/ L-TP-4D; L-CA-DUP-2 associated w/ L-AMW-8; L-CA-DUP-3 associated w/ L-MW-34(D);L-CA-FB-1 associated w/ L-AM-1D; L-CA-FB-2 associated w/ L-AM-1S; L-CA_FB-3 associated w/ L-S-1, L-MS/MSD-1 associated w/ L-TP-1D; L-MS/MSD-2 associated w/ L-MW-35(d)

COC Completeness: Sample L-MW-34(d) was received by the lab on 4/28/2025 but was not included on the COC. Sample had appropriate parameters ran with results included in final report.

Hold times: H6: Analysis imitated outside of 15 min. EPA required holding times: ron, Ferrous was ran outside of hold time for all samples. Results qualified as estimate.

QA LEVEL IV - INORGANIC DATA EVALUATION CHECKLIST

Comments/Notes:

Dilutions: chloride and/or sulfate were diluted in several samples. no qualification necessary.

Method Blanks:

3697924: Iron (28.7J ug/L) detected. Associated with:

Result < reporting limit. Qualifies as non detect at reporting limit

L-LMW-2S (14.9J ug/L)

Results > reporting limit and 10X method blank result. No qualification necessary.

L-MW-33(D) (5720 ug/L), LTP-1D (8710 ug/L), L-TP-3M (6740 ug/L), L-TP-3D (4330 ug/L), L-TP-4D (6730 ug/L), L0CA-DUP-1 (6210 ug/L)

3700770: Calcium (34.5J ug/L), iron (20.1J ug/L) and manganese (1.0J ug/L) detected. Associated with:

Results > reporting limit and 10X method blank result. No qualification necessary.

L-LMW-7S (Ca 81100 ug/L, Fe 3890 ug/L, Mn 641 ug/L); L-TP-2M (Ca 111000 ug/L, Fe 4030 ug/L, Mn 479 ug/L)

L-MW-26 (Ca 136000 ug/L, Mn 151 ug/L), L-S-1 (Ca 127000 ug/L, Mn 504 ug/L), L-LMW-8S (Ca 64300 ug/L, Fe 2500 ug/L, Mn 343 ug/L),

Results > reporting limit. Qualifies as non detect at reporting limit

L-MW-26 (Fe 34.3J ug/L), L-S-1 (Fe 38.1 J ug/L)

3711067: Chloride (0.59J mg/L) detected. Associated with:

Results > reporting limit < 10X method blank result. Result qualified as estimate.

L-MW-24 (3.1 mg/L), L-S-1 (2.1 mg/L)

Results > reporting limit and 10X method blank result. No qualification necessary.

L-AMW-8 (28.9 mg/L), L-MW-34(D) (14.3 mg/L), L-LMW-4S (35.1 mg/L), L-CA-DUP-2 (22.2 mg/L)

Field Blank

L-CA-FB-1 is associated with L-AM-1D. The following are detecting in L-CA-FB-1:

Boron (16.9J ug/L), Sodium (156 ug/L), Chromium (0.32J), Calcium (43.4J ug/L), Chloride (0.59J)

The following qualifiers were evaluated for the associated sample L-AM-1D

Results > reporting limit and 10X blank. No qualification applied.

Boron (6400 ug/L), calcium (104000 ug/L), chloride (48.8 ug/L), sodium (97700 ug/L)

Result > reporting limit. Qualifies as non detect at reporting limit.

Chromium (0.43 J ug/L)

L-CA-FB-2 is associated with sample L-AM-1S. The following are detecting in sample LCA-FB-2

Calcium (37.9J ug/L), Sodium (201J ug/L), Chromium (0.40J ug/L)

The following qualifiers were evaluated for the associated sample L-AM-1S:

Result > reporting limit and 10X method blank result. No qualification necessary.

Calcium (177000 ug/L), Sodium (60400 ug/L)

Result > reporting limit. Qualifies as non detect at reporting limit.

Chromium (0.33J ug/L)

L-CA-FB-3 is associated with sample L-S-1. The following are detections in sample LCA-FB-3

Calcium (52.3J ug/L), Sodium (220J ug/L), Iron, Ferric (0.0099J mg/L), Manganese (>0.39 ug/L), Iron (11.9 J ug/L), Chromium (0.40J ug/L)

The following qualifiers were evaluated for the associated sample: L-S-1

Results > reporting limit and 10X blank. No qualification applied.

QA LEVEL IV - INORGANIC DATA EVALUATION CHECKLIST

Comments/Notes:

Laboratory Control Sample

Iron, Ferrous, analysis initiated outside holding time. Qualifer already applied to associated sample. No qualification necessary.

Field Duplicate Samples

L-CA DUP-1 associated w/ L-TP-4D. RPDs within control limits, no qualification necessary.

L-CA_DUP-2 associated w/ L-AMW-8. The following analytes exceeded an RPD of 20%. Results qualified as estimate.

Chromium, total (47%), Chloride, total (26%), Sulfide, total (33%)

The following analyses were detected in one sample but not in the other. Results qualified as estimate.

Radium 226 (CA-DUP-2: 0.336+/-0.587,L-AMW-8:1.22+/-0.779)

L-CA-DUP-3 is associated with sample L-MW-34(D). The following analyses exceed an RPD of 20%. Results qualified as estimate.

Aluminum (CA-DUP-3: <16.4 ug/L, L-MW-34(D): 37.7 ug/L)

Matrix Spike & Matrix Spike Duplicate

MS/MSD: 3704601 associated sample 60474264004

Mercury: MS/MSD both low, RPD OK. Associated sample is not part of the sample list. No qualifier applied.

MS/MSD: 3697626: associated sample: 60473874005/L-TP-1D: calcium: MS/MSD both low. RPD OK. Results qualified as estimate.

MS/MSD: 3698973: associated sample: 60474050002: calcium: MS/MSD both low, RPD OK. Associated sample not part of sample list. No qualifier applied.

MS/MSD: 3698992: associated sample: 60473874017/L-MW-35(D):Calcium MSD low MS and RPD OK. No qualification needed.

MS:3700775: associated sample 60473874028/L-MW-26: Calcium MS is low. Result qualified as estimate.

QA LEVEL IV - INORGANIC DATA EVALUATION CHECKLIST

Data Qualification:

Sample Name	Constituent(s)	Result	Qualifier	Reason
L-BMW-1S	Iron, Ferrous	34.1 mg/L	J	Analysis ran outside of the 15-minute EPA required holding time.
L-BMW-2S	Iron, Ferrous	<0.041 mg/L	UJ	Analysis ran outside of the 15-minute EPA required holding time.
L-LMW-2S	Iron, Ferrous	0.074 mg/L	J	Analysis ran outside of the 15-minute EPA required holding time.
L-MW-33(D)	Iron, Ferrous	7.8 mg/L	J	Analysis ran outside of the 15-minute EPA required holding time.
L-TP-1D	Iron, Ferrous	12.0 mg/L	J	Analysis ran outside of the 15-minute EPA required holding time.
L-TP-3M	Iron, Ferrous	9.7 mg/L	J	Analysis ran outside of the 15-minute EPA required holding time.
L-TP-3D	Iron, Ferrous	6.3 mg/L	J	Analysis ran outside of the 15-minute EPA required holding time.
L-TP-4D	Iron, Ferrous	8.3 mg/L	J	Analysis ran outside of the 15-minute EPA required holding time.
L-CA-DUP-1	Iron, Ferrous	8.3 mg/L	J	Analysis ran outside of the 15-minute EPA required holding time.
L-AMW-8	Iron, Ferrous	2.9 mg/L	J	Analysis ran outside of the 15-minute EPA required holding time.
L-LMW-1S	Iron, Ferrous	0.92 mg/L	J	Analysis ran outside of the 15-minute EPA required holding time.
L-LMW-4S	Iron, Ferrous	12.2 mg/L	J	Analysis ran outside of the 15-minute EPA required holding time.
L-MW-24	Iron, Ferrous	<0.041 mg/L	UJ	Analysis ran outside of the 15-minute EPA required holding time.
L-MW-34(D)	Iron, Ferrous	10.1 mg/L	J	Analysis ran outside of the 15-minute EPA required holding time.
L-MW-35(D)	Iron, Ferrous	9.4 mg/L	J	Analysis ran outside of the 15-minute EPA required holding time.
L-AM-1S	Iron, Ferrous	1.7 mg/L	J	Analysis ran outside of the 15-minute EPA required holding time.
L-CA-DUP-2	Iron, Ferrous	2.9 mg/L	J	Analysis ran outside of the 15-minute EPA required holding time.
L-CA-DUP-3	Iron, Ferrous	9.8 mg/L	J	Analysis ran outside of the 15-minute EPA required holding time.
L-CA-FB-1	Iron, Ferrous	<0.041 mg/L	UJ	Analysis ran outside of the 15-minute EPA required holding time.
L-CA-FB-2	Iron, Ferrous	<0.041 mg/L	UJ	Analysis ran outside of the 15-minute EPA required holding time.
L-AM-1D	Iron, Ferrous	6.7 mg/L	J	Analysis ran outside of the 15-minute EPA required holding time.
L-LMW-7S	Iron, Ferrous	5.4 mg/L	J	Analysis ran outside of the 15-minute EPA required holding time.
L-LMW-8S	Iron, Ferrous	0.13 mg/L	J	Analysis ran outside of the 15-minute EPA required holding time.
L-MW-26	Iron, Ferrous	<0.041 mg/L	UJ	Analysis ran outside of the 15-minute EPA required holding time.
L-S-1	Iron, Ferrous	<0.041 mg/L	UJ	Analysis ran outside of the 15-minute EPA required holding time.
L-TP-2M	Iron, Ferrous	5.5 mg/L	J	Analysis ran outside of the 15-minute EPA required holding time.
L-TP-2D	Iron, Ferrous	5.7 mg/L	J	Analysis ran outside of the 15-minute EPA required holding time.
L-CA-FB-3	Iron, Ferrous	<0.041 mg/L	UJ	Analysis ran outside of the 15-minute EPA required holding time.
L-LMW-2S	Iron, Total	<50.0 ug/L	U	Detection in method blank, Result < Reporting limit
L-MW-26	Iron, Total	<50.0 ug/L	U	Detection in method blank, Result < Reporting limit
L-S-1	Iron, Total	<50.0 ug/L	U	Detection in method blank, Result < Reporting limit
L-MW-24	Chloride	3.1 mg/L	J	Results > reporting limit < 10x method blank result.

QA LEVEL IV - INORGANIC DATA EVALUATION CHECKLIST

Data Qualification:

Sample Name	Constituent(s)	Result	Qualifier	Reason
L-S-1	Chloride	2.1 mg/L	J	Results > reporting limit < 10x method blank result.
L-AM-1D	Chromium	<0.50 ug/L	U	Detection in method blank, Result < Reporting limit
L-AM-1S	Chromium	<0.50 ug/L	U	Detection in method blank, Result < Reporting limit
L-S-1	Iron, Total	<50.0 ug/L	U	Detect in FB, result <RL, Qualify as ND.
L-S-1	Chromium	<0.50 ug/L	U	Detected in FB, result < RL. Qualify as ND.
L-CA-DUP-2	Chromium	0.31 ug/L	J	DUP RPD > 20%
L-CA-DUP-2	Chloride	22.2 ug/L	J	DUP RPD > 20%
L-CA-DUP-2	Radium-226	1.02 pCi/L	UJ	DUP RPD > 20%, detected in parent sample, not in Dup
L-CA-DUP-2	Sulfide	0.025 ug/L	J	DUP RPD > 20%
L-AMW-8	Chromium	0.50 ug/L	J	DUP RPD > 20%
L-AMW-8	Chloride	28.9 ug/L	J	DUP RPD > 20%
L-AMW-8	Radium-226	1.22 pCi/L	J	DUP RPD > 20%, detected in parent sample, not in Dup
L-AMW-8	Sulfide	0.018 ug/L	J	DUP RPD > 20%
L-CA-DUP-3	Aluminum	<16.4 ug/L	UJ	DUP RPD > 20%, detected in parent sample and not in DUP
CA-DUP-3	Sulfide	0.057 ug/L	J	DUP RPD > 20%
CA-DUP-3	Radium-228	1.16 pCi/L	J	DUP RPD > 20%
L-MW-34(D)	Aluminum	27.7 ug/L	J	DUP RPD > 20%, detected in parent sample and not in DUP
L-MW-34(D)	Sulfide	0.023 ug/L	J	DUP RPD > 20%
L-MW-34(D)	Radium-228	1.75 pCi/L	J	DUP RPD > 20%
L-TP-1D	Calcium	136,000 ug/L	J-	MS/MSD both low, RPD OK
L-MW-26	Calcium	136,000 ug/L	J-	MS low – no MSD ran

Signature: E. M. Ludwig Date: 10.30.2025

Scanned with CamScanner

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

August 07, 2025

Mark Haddock
Rocksmith Geoengineering, LLC.
2320 Creve Coeur Mill Road
Maryland Heights, MO 63043

RE: Project: AMEREN LCPA-VERIFICATION
Pace Project No.: 60478694

Dear Mark Haddock:

Enclosed are the analytical results for sample(s) received by the laboratory on July 10, 2025. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Kansas City

REV-1, Collection date updated from 7/9/25 to 7/8/25 per client request.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Jamie Church
jamie.church@pacelabs.com
314-838-7223
Project Manager

Enclosures

cc: Jeffrey Ingram, Rocksmith Geoengineering, LLC.
Lisa Meyer, Ameren
Grant Morey, Rocksmith Geoengineering, LLC.
Austin Nieman, Ameren

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

CERTIFICATIONS

Project: AMEREN LCPA-VERIFICATION
Pace Project No.: 60478694

Pace Analytical Services Kansas

9608 Loiret Boulevard, Lenexa, KS 66219
Arkansas Certification #: 88-00679
Illinois Certification #: 200030
Colorado Division of Oil and Public Safety
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Oklahoma Certification #: 9205
Texas Certification #: T104704407
Utah Certification #: KS0002125-15

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

SAMPLE SUMMARY

Project: AMEREN LCPA-VERIFICATION
Pace Project No.: 60478694

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60478694001	**L-UMW-1D**	Water	07/08/25 12:20	07/10/25 06:40
60478694002	**L-UMW-4D**	Water	07/08/25 11:05	07/10/25 06:40
60478694003	**L-UMW-FB-1**	Water	07/08/25 11:03	07/10/25 06:40
60478694004	**L-UMW-DUP-1**	Water	07/08/25 00:00	07/10/25 06:40

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

SAMPLE ANALYTE COUNT

Project: AMEREN LCPA-VERIFICATION
Pace Project No.: 60478694

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60478694001	**L-UMW-1D**	EPA 200.7	ARMN	1	PASI-K
		SM 2540C	CAR	1	PASI-K
60478694002	**L-UMW-4D**	EPA 200.7	ARMN	1	PASI-K
		SM 2540C	CAR	1	PASI-K
60478694003	**L-UMW-FB-1**	EPA 200.7	ARMN	1	PASI-K
		SM 2540C	CAR	1	PASI-K
60478694004	**L-UMW-DUP-1**	EPA 200.7	ARMN	1	PASI-K
		SM 2540C	CAR	1	PASI-K

PASI-K = Pace Analytical Services - Kansas City

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA-VERIFICATION
Pace Project No.: 60478694

Sample: L-UMW-1D **Lab ID: 60478694001** Collected: 07/08/25 12:20 Received: 07/10/25 06:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City								
Calcium	**149000**	ug/L	200	45.3	1	07/10/25 14:27	07/11/25 14:46	7440-70-2	M1,P6
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City								
Total Dissolved Solids	**607**	mg/L	13.3	13.3	1		07/14/25 15:51		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA-VERIFICATION
Pace Project No.: 60478694

Sample: L-UMW-4D **Lab ID: 60478694002** Collected: 07/08/25 11:05 Received: 07/10/25 06:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City								
Calcium	**63900**	ug/L	200	45.3	1	07/10/25 14:27	07/11/25 14:51	7440-70-2	
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City								
Total Dissolved Solids	**550**	mg/L	10.0	10.0	1		07/14/25 15:51		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA-VERIFICATION
Pace Project No.: 60478694

Sample: L-UMW-FB-1 **Lab ID: 60478694003** Collected: 07/08/25 11:03 Received: 07/10/25 06:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City								
Calcium	**<45.3**	ug/L	200	45.3	1	07/10/25 14:27	07/11/25 14:53	7440-70-2	
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City								
Total Dissolved Solids	**<5.0**	mg/L	5.0	5.0	1		07/14/25 15:51		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA-VERIFICATION
Pace Project No.: 60478694

Sample: L-UMW-DUP-1 **Lab ID: 60478694004** Collected: 07/08/25 00:00 Received: 07/10/25 06:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City								
Calcium	**65000**	ug/L	200	45.3	1	07/11/25 10:09	07/16/25 13:20	7440-70-2	
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City								
Total Dissolved Solids	**566**	mg/L	10.0	10.0	1		07/14/25 15:51		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: AMEREN LCPA-VERIFICATION
Pace Project No.: 60478694

QC Batch: 941369
QC Batch Method: EPA 200.7
Analysis Method: EPA 200.7
Analysis Description: 200.7 Metals, Total
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60478694001, 60478694002, 60478694003

METHOD BLANK: 3731961 Matrix: Water
Associated Lab Samples: 60478694001, 60478694002, 60478694003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	ug/L	<45.3	200	45.3	07/11/25 13:57	

LABORATORY CONTROL SAMPLE: 3731962

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	ug/L	10000	10200	102	85-115	

MATRIX SPIKE SAMPLE: 3731963

Parameter	Units	60478701001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Calcium	ug/L	30900	10000	39600	87	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3731964 3731965

Parameter	Units	60478694001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	ug/L	149000	10000	10000	167000	161000	179	118	70-130	4	20	M1

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: AMEREN LCPA-VERIFICATION
Pace Project No.: 60478694

QC Batch: 941448
QC Batch Method: EPA 200.7
Analysis Method: EPA 200.7
Analysis Description: 200.7 Metals, Total
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60478694004

METHOD BLANK: 3732254 Matrix: Water
Associated Lab Samples: 60478694004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	ug/L	<45.3	200	45.3	07/16/25 13:09	

LABORATORY CONTROL SAMPLE: 3732255

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	ug/L	10000	9510	95	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3732256 3732257

Parameter	Units	60478676001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	ug/L	ND	10000	10000	<22700	<22700	73	58	70-130		20	M1

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: AMEREN LCPA-VERIFICATION
Pace Project No.: 60478694

QC Batch: 941580
QC Batch Method: SM 2540C
Analysis Method: SM 2540C
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60478694001, 60478694002, 60478694003, 60478694004

METHOD BLANK: 3733014 Matrix: Water
Associated Lab Samples: 60478694001, 60478694002, 60478694003, 60478694004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<5.0	5.0	5.0	07/14/25 15:50	

LABORATORY CONTROL SAMPLE: 3733015

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	1000	988	99	80-120	

SAMPLE DUPLICATE: 3733016

Parameter	Units	60478736001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	135	134	0	10	

SAMPLE DUPLICATE: 3733017

Parameter	Units	60478694001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	607	612	1	10	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALIFIERS

Project: AMEREN LCPA-VERIFICATION
Pace Project No.: 60478694

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
P6	Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: AMEREN LCPA-VERIFICATION
Pace Project No.: 60478694

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60478694001	**L-UMW-1D**	EPA 200.7	941369	EPA 200.7	941379
60478694002	**L-UMW-4D**	EPA 200.7	941369	EPA 200.7	941379
60478694003	**L-UMW-FB-1**	EPA 200.7	941369	EPA 200.7	941379
60478694004	**L-UMW-DUP-1**	EPA 200.7	941448	EPA 200.7	941519
60478694001	**L-UMW-1D**	SM 2540C	941580		
60478694002	**L-UMW-4D**	SM 2540C	941580		
60478694003	**L-UMW-FB-1**	SM 2540C	941580		
60478694004	**L-UMW-DUP-1**	SM 2540C	941580		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

WO# : 60478694

60478694

Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-LENE-0009_Sample Co		
	Revision: 2	Effective Date: 01/12/2022	Issued By: Lenexa

Client Name: Rocksmith Geoeng

Courier: FedEx ☐ UPS ☐ VIA ☐ Clay ☐ PEX ☐ ECI ☐ Pace ☐ Xroads ☐ Client ☐ Other ☐

Tracking #: _____ Pace Shipping Label Used? Yes ☐ No ☐

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

Packing Material: Bubble Wrap ☐ Bubble Bags ☐ Foam ☐ None ☐ Other ☐

Thermometer Used: T-301 **Type of Ice:** Wet Blue None

Cooler Temperature (°C): **As-read** 2.3 **Corr. Factor** 0.0 **Corrected** 2.3

Date and initials of person examining contents: AV 7/10/25

Temperature should be above freezing to 6°C

Chain of Custody present:	☐Yes ☐No ☐N/A	
Chain of Custody relinquished:	☐Yes ☐No ☐N/A	
Samples arrived within holding time:	☐Yes ☐No ☐N/A	
Short Hold Time analyses (<72hr):	☐Yes ☐No ☐N/A	
Rush Turn Around Time requested:	☐Yes ☐No ☐N/A	
Sufficient volume:	☐Yes ☐No ☐N/A	
Correct containers used:	☐Yes ☐No ☐N/A	
Pace containers used:	☐Yes ☐No ☐N/A	
Containers intact:	☐Yes ☐No ☐N/A	
Unpreserved 5035A / TX1005/1006 soils frozen in 48hrs?	☐Yes ☐No ☐N/A	
Filtered volume received for dissolved tests?	☐Yes ☐No ☐N/A	
Sample labels match COC: Date / time / ID / analyses	☐Yes ☐No ☐N/A	
Samples contain multiple phases? Matrix: WT	☐Yes ☐No ☐N/A	
Containers requiring pH preservation in compliance? (HNO_3, H_2SO_4, HCl<2; NaOH>9 Sulfide, NaOH>10 Cyanide) (Exceptions: VOA, Micro, O&G, KS TPH, OK-DRO) **LOT#:** 96888	☐Yes ☐No ☐N/A	List sample IDs, volumes, lot #'s of preservative and the date/time added.
Cyanide water sample checks: Lead acetate strip turns dark? (Record only)	☐Yes ☐No	
Potassium iodide test strip turns blue/purple? (Preserve)	☐Yes ☐No	
Trip Blank present:	☐Yes ☐No ☐N/A	
Headspace in VOA vials (>6mm):	☐Yes ☐No ☐N/A	
Samples from USDA Regulated Area: State:	☐Yes ☐No ☐N/A	
Additional labels attached to 5035A / TX1005 vials in the field?	☐Yes ☐No ☐N/A	

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: _____

Pace Analytical
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information:

Company:	Rocksmith Geoengineering, LLC
Address:	5233 Roanoke Drive
	St. Charles, MO 63304
Email To:	mark.haddock@rocksmithgeo.com
Phone: 314-974-5678	Fax:
Requested Due Date/TAT:	Standard

Section B Required Project Information:

Report To:	Mark Haddock
Copy To:	Jeffery Ingram, Grant Morey
Purchase Order No.:	COC #7
Project Name:	Ameren LCPA - Verification Sampling
Project Number:	COC#7

Section C Invoice Information:

Attention:	
Company Name:	Rocksmith
Address:	
Pace Quote Reference:	
Pace Project Manager:	Jamie Church
Pace Profile #:	15856, line 1

REGULATORY AGENCY

☐ NPDES ☑ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: MO

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
	WP
	AR
	OT
	TS

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED: COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	TDS	Calcium									Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
	Requested Analysis Filtered (Y/N)																		N	N	N	N	N	N	N	N	N			
1	L-UMW-1D	WT	G			7-9-25	1220		2	X		X							X	X										60478694
2	L-UMW-4D	WT	G			7-9-25	1105		2			X							X	X										
3	L-UMW-FB-1	WT	G			7-9-25	1103		2	X		X							X	X										
4	L-UMW-DUP-1	WT	G			7-9-25	—		2	X		X							X	X										
5	L-UMW-MS-1	WT	G			7-9-25	1220		2	X		X							X	X										
6	L-UMW-MSD-1	WT	G			7-9-25	1220		2	X		X							X	X										
7		WT	G																											
8		WT	G																											
9		WT	G																											
10		WT	G																											
11		WT	G																											
12		WT	G																											

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Dawel Quick / Rocksmith	7-9-25	1240	[signature]	7/10	0640	2.3	Y	Y	Y

SAMPLER NAME AND SIGNATURE					
PRINT Name of SAMPLER:	Dawel Quick		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
SIGNATURE of SAMPLER:	[signature]	DATE Signed (MM/DD/YY): 07/09/25				

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Client: Rocksmith Brewing Profile/EZ # 15856-1

Site: Notes

COC Line Item	Matrix	VG9H	DG9H	DG9Q	VG9U	DG9U	DG9M	DG9B	BG1U	AG1H	AG1U	AG2U	AG3S	AG4U	AG5U	JGFU	WGKU	WGDU	BP1U	BP2U	BP3U	BP1N	BP3N	BP3F	BP3S	BP3B	BP3Z	WPDU	ZPLC	Other		
1	WT																			3			3		(MS/MSD)							
2	↓																			1			1									
3																				1			1									
4																				1			1									
5																																
6																																
7																																
8																																
9																																
10																																
11																																
12																																

Container Codes

Glass			
DG9B	40mL bisulfate clear vial	WGKU	8oz clear soil jar
DG9H	40mL HCl amber voa vial	WGFU	4oz clear soil jar
DG9M	40mL MeOH clear vial	WG2U	2oz clear soil jar
DG9Q	40mL TSP amber vial	JGFU	4oz unpreserved amber wide
DG9S	40mL H2SO4 amber vial	AG0U	100mL unores amber glass
DG9T	40mL Na Thio amber vial	AG1H	1L HCl amber glass
DG9U	40mL amber unpreserved	AG1S	1L H2SO4 amber glass
VG9H	40mL HCl clear vial	AG1T	1L Na Thiosulfate clear/amber glass
VG9T	40mL Na Thio. clear vial	AG1U	1liter unpres amber glass
VG9U	40mL unpreserved clear vial	AG2N	500mL HNO3 amber glass
BG1S	1liter H2SO4 clear glass	AG2S	500mL H2SO4 amber glass
BG1U	1liter unpres glass	AG3S	250mL H2SO4 amber glass
BG3H	250mL HCL Clear glass	AG2U	500mL unpres amber glass
BG3U	250mL Unpres Clear glass	AG3U	250mL unpres amber glass
WGDU	16oz clear soil jar	AG4U	125mL unpres amber glass
		AG5U	100mL unpres amber glass

Plastic	
BP1B	1L NAOH plastic
BP1N	1L HNO3 plastic
BP1S	1L H2SO4 plastic
BP1U	1L unpreserved plastic
BP1Z	1L NaOH, Zn Acetate
BP2B	500mL NAOH plastic
BP2N	500mL HNO3 plastic
BP2S	500mL H2SO4 plastic
BP2U	500mL unpreserved plastic
BP2Z	500mL NaOH, Zn Acetate
BP3B	250mL NaOH plastic
BP3F	250mL HNO3 plastic - field filtered
BP3N	250mL HNO3 plastic
BP3U	250mL unpreserved plastic
BP3S	250mL H2SO4 plastic
BP3Z	250mL NaOH, Zn Acetate
BP4U	125mL unpreserved plastic
BP4N	125mL HNO3 plastic
BP4S	125mL H2SO4 plastic
WPDU	16oz unpresserved plstic

Misc.	
I	Wipe/Swab
SP5T	120mL Coliform Na Thiosulfate
ZPLC	Ziploc Bag
AF	Air Filter
C	Air Cassettes
R	Terracore Kit
U	Summa Can

Matrix	
WT	Water
SL	Solid
NAL	Non-aqueous Liquid
OL	OIL
WP	Wipe
DW	Drinking Water

Work Order Number: 6047694

Memorandum

August 15, 2025

To:	Project File Rocksmith Geoengineering, LLC	**Project Number:**	23007-25
CC:	Mark Haddock, Jeffrey Ingram		
From:	Jack Rasmussen	**Email:**	jack.rasmussen@rocksmithgeo.com
RE:	**Data Validation Summary, Labadie Energy Center – LCPA Verification – Data Package 60478694**		

The following is a summary of instances where quality control criteria in the functional guidelines were not met and data qualification was required:

- None

QA LEVEL II - INORGANIC DATA EVALUATION CHECKLIST

Company Name: Rocksmith Geoengineering
Project Manager: J. Ingram
Project Name: Ameren LEC - LCPA Verification
Project Number: 23007-25
Reviewer: J. Rasmussen
Validation Date: 8/15/2025

Laboratory: Pace Analytical Services
SDG #: 60478694
Analytical Method (type and no.): SM2540C (TDS), EPA 200.7 (Calcium)
Matrix: ☐ Air ☐ Soil/Sed. ■ Water ☐ Waste ☐ _____
Sample Names L-UMW-1D, L-UMW-4D, L-UMW-DUP-1, L-UMW-FB-1

NOTE: Please provide calculation in Comment areas or on the back (if on the back please indicate in comment areas).

Field Information	YES	NO	NA	COMMENTS
a) Sampling dates noted?	x			07/08/2025
b) Sampling team indicated?	x			JDQ
c) Sample location noted?	x			
d) Sample depth indicated (Soils)?			x	
e) Sample type indicated (grab/composite)?	x			Grab
f) Field QC noted?	x			See notes.
g) Field parameters collected (note types)?	x			pH, Sp.Cond, ORP, Temp, DO, Turb
h) Field Calibration within control limits?		x		See notes.
i) Notations of unacceptable field conditions/performances from field logs or field notes?		x		
j) Does the laboratory narrative indicate deficiencies?		x		No lab narrative.

Note Deficiencies: _____

Chain-of-Custody (COC)	YES	NO	NA	COMMENTS
a) Was the COC properly completed?	x			
b) Was the COC signed by both field and laboratory personnel?	x			
c) Were samples received in good condition?	x			

General (reference QAPP or Method)	YES	NO	NA	COMMENTS
a) Were hold times met for sample pretreatment?	x			
b) Were hold times met for sample analysis?	x			
c) Were the correct preservatives used?	x			
d) Was the correct method used?	x			
e) Were appropriate reporting limits achieved?	x			
f) Were any sample dilutions noted?		x		
g) Were any matrix problems noted?		x		

QA LEVEL II - INORGANIC DATA EVALUATION CHECKLIST

Blanks	YES	NO	NA	COMMENTS
a) Were analytes detected in the method blank(s)?	☐	☒	☐	
b) Were analytes detected in the field blank(s)?	☐	☒	☐	L-UMW-FB-1 @ L-UMW-4D
c) Were analytes detected in the equipment blank(s)?	☐	☐	☒	
d) Were analytes detected in the trip blank(s)?	☐	☐	☒	

Laboratory Control Sample (LCS)	YES	NO	NA	COMMENTS
a) Was a LCS analyzed once per SDG?	☒	☐	☐	
b) Were the proper analytes included in the LCS?	☒	☐	☐	
c) Was the LCS accuracy criteria met?	☒	☐	☐	

Duplicates	YES	NO	NA	COMMENTS
a) Were field duplicates collected (note original and duplicate sample names)?				L-UMW-DUP-1 @ L-UMW-4D
	☒	☐	☐	
b) Were field dup. precision criteria met (note RPD)?	☒	☐	☐	
c) Were lab duplicates analyzed (note original and duplicate samples)?				
	☒	☐	☐	
d) Were lab dup. precision criteria met (note RPD)?	☒	☐	☐	

Blind Standards	YES	NO	NA	COMMENTS
a) Was a blind standard used (indicate name,	☐	☐	☒	
analytes included and concentrations)?				
b) Was the %D within control limits?	☐	☐	☒	

Matrix Spike/Matrix Spike Duplicate (MS/MSD)	YES	NO	NA	COMMENTS
a) Was MS accuracy criteria met?	☐	☒	☐	
Recovery could not be calculated since sample contained high concentration of analyte?	☐	☐	☒	
b) Was MSD accuracy criteria met?	☐	☒	☐	
Recovery could not be calculated since sample contained high concentration of analyte?	☐	☐	☒	
c) Were MS/MSD precision criteria met?	☐	☒	☐	

Comments/Notes:

MS/MSD:

3731964/3731965: MS recovery high for calcium, MSD and RPD within control limits. No qualification necessary.

3732256/3732257: MSD recovery low for calcium, MS and RPD within control limits. No qualification necessary.

QA LEVEL II- INORGANIC DATA EVALUATION CHECKLIST

Data Qualification:

Sample Name	Constituent(s)	Result	Qualifier	Reason

Signature: _____ Date: 08/15/2025

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

August 15, 2025

Mark Haddock
Rocksmith Geoengineering, LLC.
2320 Creve Coeur Mill Road
Maryland Heights, MO 63043

RE: Project: AMEREN LCPA-ADDITIONAL SAMPLES
Pace Project No.: 60480516

Dear Mark Haddock:

Enclosed are the analytical results for sample(s) received by the laboratory on August 13, 2025. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Kansas City

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Jamie Church
jamie.church@pacelabs.com
314-838-7223
Project Manager

Enclosures

cc: Jeffrey Ingram, Rocksmith Geoengineering, LLC.
Lisa Meyer, Ameren
Grant Morey, Rocksmith Geoengineering, LLC.
Austin Nieman, Ameren

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

CERTIFICATIONS

Project: AMEREN LCPA-ADDITIONAL SAMPLES
Pace Project No.: 60480516

Pace Analytical Services Kansas

9608 Loiret Boulevard, Lenexa, KS 66219
EPA Lab Code: KS00021
Arkansas Certification #: 88-00679
Illinois Certification #: 200030
Colorado Division of Oil and Public Safety
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Oklahoma Certification #: 9205
Texas Certification #: T104704407
Utah Certification #: KS0002125-15
UDSA_CA : #KS-SC-DOM-25-01

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

SAMPLE SUMMARY

Project: AMEREN LCPA-ADDITIONAL SAMPLES
Pace Project No.: 60480516

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60480516001	**L-UMW-1D**	Water	08/11/25 11:00	08/13/25 07:10
60480516002	**L-BMW-1D**	Water	08/11/25 13:25	08/13/25 07:10
60480516003	**L-BMW-2D**	Water	08/11/25 12:40	08/13/25 07:10

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

SAMPLE ANALYTE COUNT

Project: AMEREN LCPA-ADDITIONAL SAMPLES
Pace Project No.: 60480516

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60480516001	**L-UMW-1D**	EPA 200.8	JGP	1	PASI-K
60480516002	**L-BMW-1D**	EPA 200.8	JGP	1	PASI-K
60480516003	**L-BMW-2D**	EPA 200.8	JGP	1	PASI-K

PASI-K = Pace Analytical Services - Kansas City

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA-ADDITIONAL SAMPLES
Pace Project No.: 60480516

Sample: L-UMW-1D **Lab ID: 60480516001** Collected: 08/11/25 11:00 Received: 08/13/25 07:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Arsenic	**54.5**	ug/L	1.0	0.13	1	08/14/25 10:43	08/15/25 11:01	7440-38-2	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA-ADDITIONAL SAMPLES
Pace Project No.: 60480516

Sample: L-BMW-1D **Lab ID: 60480516002** Collected: 08/11/25 13:25 Received: 08/13/25 07:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Arsenic	**2.8**	ug/L	1.0	0.13	1	08/14/25 10:43	08/15/25 11:03	7440-38-2	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA-ADDITIONAL SAMPLES
Pace Project No.: 60480516

Sample: L-BMW-2D **Lab ID: 60480516003** Collected: 08/11/25 12:40 Received: 08/13/25 07:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Arsenic	**37.8**	ug/L	1.0	0.13	1	08/14/25 10:43	08/15/25 11:05	7440-38-2	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: AMEREN LCPA-ADDITIONAL SAMPLES
Pace Project No.: 60480516

QC Batch: 944758
QC Batch Method: EPA 200.8
Analysis Method: EPA 200.8
Analysis Description: 200.8 MET
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60480516001, 60480516002, 60480516003

METHOD BLANK: 3744275 Matrix: Water
Associated Lab Samples: 60480516001, 60480516002, 60480516003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic	ug/L	<0.13	1.0	0.13	08/15/25 10:48	

LABORATORY CONTROL SAMPLE: 3744276

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	40	40.1	100	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3744277 3744278

Parameter	Units	60480511001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	ug/L	1.1	40	40	42.4	43.1	103	105	70-130	2	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALIFIERS

Project: AMEREN LCPA-ADDITIONAL SAMPLES
Pace Project No.: 60480516

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: AMEREN LCPA-ADDITIONAL SAMPLES
Pace Project No.: 60480516

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60480516001	**L-UMW-1D**	EPA 200.8	944758	EPA 200.8	944763
60480516002	**L-BMW-1D**	EPA 200.8	944758	EPA 200.8	944763
60480516003	**L-BMW-2D**	EPA 200.8	944758	EPA 200.8	944763

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-LENE-0009_Sa	
	Revision: 2	Effective Date: 01/12/

WO# : 60480516

60480516

Client Name: Rocksmith

Courier: FedEx ☐ UPS ☐ VIA ☐ Clay ☐ PEX ☐ ECI ☐ Pace ☐ Xroads ☒ Client ☐ Other ☐

Tracking #: _____ Pace Shipping Label Used? Yes ☐ No ☒

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

Packing Material: Bubble Wrap ☐ Bubble Bags ☐ Foam ☐ None ☒ Other ☐

Thermometer Used: T301 **Type of Ice:** (Wet) Blue None

Cooler Temperature (°C): **As-read** 4.5 **Corr. Factor** — **Corrected** 4.5

Date and initials of person examining contents: DF 8/13

Temperature should be above freezing to 6°C

Chain of Custody present:	☒Yes ☐No ☐N/A	
Chain of Custody relinquished:	☒Yes ☐No ☐N/A	
Samples arrived within holding time:	☒Yes ☐No ☐N/A	
Short Hold Time analyses (<72hr):	☐Yes ☐No ☒N/A	
Rush Turn Around Time requested:	☐Yes ☐No ☒N/A	
Sufficient volume:	☒Yes ☐No ☐N/A	
Correct containers used:	☒Yes ☐No ☐N/A	
Pace containers used:	☒Yes ☐No ☐N/A	
Containers intact:	☒Yes ☐No ☐N/A	
Unpreserved 5035A / TX1005/1006 soils frozen in 48hrs?	☐Yes ☐No ☒N/A	
Filtered volume received for dissolved tests?	☐Yes ☐No ☒N/A	
Sample labels match COC: Date / time / ID / analyses	☒Yes ☐No ☐N/A	
Samples contain multiple phases? Matrix: WT	☐Yes ☒No ☐N/A	
Containers requiring pH preservation in compliance? (HNO_3, H_2SO_4, HCl<2; NaOH>9 Sulfide, NaOH>10 Cyanide) (Exceptions: VOA, Micro, O&G, KS TPH, OK-DRO) **LOT#:** 91688	☒Yes ☐No ☐N/A	List sample IDs, volumes, lot #'s of preservative and the date/time added.
Cyanide water sample checks: Lead acetate strip turns dark? (Record only)	☐Yes ☐No	
Potassium iodide test strip turns blue/purple? (Preserve)	☐Yes ☐No	
Trip Blank present:	☐Yes ☐No ☒N/A	
Headspace in VOA vials (>6mm):	☐Yes ☐No ☒N/A	
Samples from USDA Regulated Area: State:	☐Yes ☐No ☒N/A	
Additional labels attached to 5035A / TX1005 vials in the field?	☐Yes ☐No ☒N/A	

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: _____

Pace Analytical
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

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

60480516

Page: 1 of 1

Section A — Required Client Information:

Company:	Rocksmith Geoengineering, LLC
Address:	5233 Roanoke Drive
	St. Charles, MO 63304
Email To:	mark.haddock@rocksmithgeo.com
Phone:	314-974-5678
Fax:	
Requested Due Date/TAT:	Standard

Section B — Required Project Information:

Report To:	Mark Haddock
Copy To:	Jeffery Ingram, Grant Morey
Purchase Order No.:	COC #7
Project Name:	Ameren LCPA - Additional Sampling
Project Number:	COC#7

Section C — Invoice Information:

Attention:	
Company Name:	Rocksmith
Address:	
Pace Quote Reference:	
Pace Project Manager:	Jamie Church
Pace Profile #:	15856, line 1

REGULATORY AGENCY

☐ NPDES ☑ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: MO

Section D — Required Client Information

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
	WP
	AR
	OT
	TS

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED: COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test ↓ Y/N ↓	Arsenic									Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
																			N	N	N	N	N	N	N	N	N	N	
1	L-UMW-1D	WT	G	8-11-25	1100							X							X										
2	L-BMW-1D	WT	G		1325							X							X										
3	L-BMW-2D	WT	G		1240							X							X										
4		WT	G																										
5		WT	G																										
6		WT	G																										
7		WT	G																										
8		WT	G																										
9		WT	G																										
10		WT	G																										
11		WT	G																										
12		WT	G																										

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	John Rasmussen / Rocksmith	8/12/25	1320	[signature] / PACE	8/13	710	4.5

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: John Rasmussen

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 08/11/25

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

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Client: Rocksmith Profile/EZ # 15856 line 1

Site: Ameren LCPA - Additional Sampling Notes

COC line Item	Matrix	VG9H	DG9H	DG9Q	VG9U	DG9U	DG9M	DG9B	BG1U	AG1H	AG1U	AG2U	AG3S	AG4U	AG5U	JGFU	WGKU	WGDU	BP1U	BP2U	BP3U	BP1N	BP3N	BP3F	BP3S	BP3B	BP3Z	WPDU	ZPLC	Other		
1	WT																		1				1									
2																							1									
3																							1									
4																																
5																																
6																																
7																																
8																																
9																																
10																																
11																																
12																																

Container Codes

Glass			
DG9B	40mL bisulfate clear vial	WGKU	8oz clear soil jar
DG9H	40mL HCl amber voa vial	WGFU	4oz clear soil jar
DG9M	40mL MeOH clear vial	WG2U	2oz clear soil jar
DG9Q	40mL TSP amber vial	JGFU	4oz unpreserved amber wide
DG9S	40mL H2SO4 amber vial	AG0U	100mL unores amber glass
DG9T	40mL Na Thio amber vial	AG1H	1L HCl amber glass
DG9U	40mL amber unpreserved	AG1S	1L H2SO4 amber glass
VG9H	40mL HCl clear vial	AG1T	1L Na Thiosulfate clear/amber glass
VG9T	40mL Na Thio. clear vial	AG1U	1liter unpres amber glass
VG9U	40mL unpreserved clear vial	AG2N	500mL HNO3 amber glass
BG1S	1liter H2SO4 clear glass	AG2S	500mL H2SO4 amber glass
BG1U	1liter unpres glass	AG3S	250mL H2SO4 amber glass
BG3H	250mL HCL Clear glass	AG2U	500mL unpres amber glass
BG3U	250mL Unpres Clear glass	AG3U	250mL unpres amber glass
WGDU	16oz clear soil jar	AG4U	125mL unpres amber glass
		AG5U	100mL unpres amber glass

Plastic	
BP1B	1L NAOH plastic
BP1N	1L HNO3 plastic
BP1S	1L H2SO4 plastic
BP1U	1L unpreserved plastic
BP1Z	1L NaOH, Zn Acetate
BP2B	500mL NAOH plastic
BP2N	500mL HNO3 plastic
BP2S	500mL H2SO4 plastic
BP2U	500mL unpreserved plastic
BP2Z	500mL NaOH, Zn Acetate
BP3B	250mL NaOH plastic
BP3F	250mL HNO3 plastic - field filtered
BP3N	250mL HNO3 plastic
BP3U	250mL unpreserved plastic
BP3S	250mL H2SO4 plastic
BP3Z	250mL NaOH, Zn Acetate
BP4U	125mL unpreserved plastic
BP4N	125mL HNO3 plastic
BP4S	125mL H2SO4 plastic
WPDU	16oz unpresserved plstic

Misc.	
I	Wipe/Swab
SP5T	120mL Coliform Na Thiosulfate
ZPLC	Ziploc Bag
AF	Air Filter
C	Air Cassettes
R	Terracore Kit
U	Summa Can

Matrix	
WT	Water
SL	Solid
NAL	Non-aqueous Liquid
OL	OIL
WP	Wipe
DW	Drinking Water

Work Order Number:

WO#: 60480516

PM: JLS Due Date: 08/27/25

CLIENT: Rocksmith

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

December 16, 2025

Mark Haddock
Rocksmith Geoengineering, LLC.
2320 Creve Coeur Mill Road
Maryland Heights, MO 63043

RE: Project: AMEREN LCPA
Pace Project No.: 60484432

Dear Mark Haddock:

Enclosed are the analytical results for sample(s) received by the laboratory between October 18, 2025 and October 23, 2025. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Kansas City
- Pace Analytical Services - Greensburg
- Pace Analytical Services - Salina

REV-1: Report revised to remove parameters not required under the CCR Rule.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Jamie Church
jamie.church@pacelabs.com
314-838-7223
Project Manager

Enclosures

cc: Jeffrey Ingram, Rocksmith Geoengineering, LLC.
Lisa Meyer, Ameren
Grant Morey, Rocksmith Geoengineering, LLC.
Austin Nieman, Ameren

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

CERTIFICATIONS

Project: AMEREN LCPA
Pace Project No.: 60484432

Pace Analytical Services Pennsylvania
1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
ANABISO/IEC 17025:2017 Rad Cert#: L24170
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 2950
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA010
Louisiana DEQ/TNI Certification #: 04086
Maine Certification #: 2023021
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991
Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572023-03
New Hampshire/TNI Certification #: 297622
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-015
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: TN02867
Texas/TNI Certification #: T104704188-22-18
Utah/TNI Certification #: PA014572223-14
USDA Soil Permit #: 525-23-67-77263
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad

Pace Analytical Services Kansas
9608 Loiret Boulevard, Lenexa, KS 66219
EPA Lab Code: KS00021
Arkansas Certification #: 88-00679
Illinois Certification #: 200030
Colorado Division of Oil and Public Safety
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Oklahoma Certification #: 9205
Texas Certification #: T104704407
Utah Certification #: KS0002125-15
UDSA_CA : #KS-SC-DOM-25-01

Pace Analytical Services Salina
528 N 9th Street, Salina, KS 67401
EPA Lab Code: KS00013
Kansas/NELAP Certification: # E-10146
Oklahoma Certification: #2405
Texas Certification: T104704246-23-15

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

SAMPLE SUMMARY

Project: AMEREN LCPA
Pace Project No.: 60484432

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60484432001	**L-UMW-7D**	Water	10/17/25 11:10	10/18/25 08:50
60484432002	**L-UMW-8D**	Water	10/17/25 10:25	10/18/25 08:50
60484432003	**L-UMW-9D**	Water	10/17/25 09:41	10/18/25 08:50
60484432004	**L-UMW-FB-1**	Water	10/17/25 11:15	10/18/25 08:50
60484432005	**L-UMW-1D**	Water	10/20/25 14:05	10/22/25 08:50
60484432006	**L-UMW-2D**	Water	10/20/25 10:02	10/22/25 08:50
60484432007	**L-UMW-4D**	Water	10/21/25 11:40	10/22/25 08:50
60484432008	**L-UMW-5D**	Water	10/20/25 15:14	10/22/25 08:50
60484432009	**L-UMW-6D**	Water	10/21/25 10:17	10/22/25 08:50
60484432010	**L-BMW-1D**	Water	10/21/25 10:30	10/22/25 08:50
60484432011	**L-BMW-2D**	Water	10/21/25 09:02	10/22/25 08:50
60484432012	**L-UMW-DUP-1**	Water	10/20/25 00:00	10/22/25 08:50
60484432013	**L-UMW-DUP-2**	Water	10/21/25 00:00	10/22/25 08:50
60484432014	**L-UMW-FB-2**	Water	10/21/25 15:00	10/22/25 08:50
60484432015	**L-UMW-MS-1**	Water	10/21/25 10:17	10/22/25 08:50
60484432016	**L-UMW-MSD-1**	Water	10/21/25 10:17	10/22/25 08:50
60484432017	**L-UMW-3D**	Water	10/22/25 10:45	10/23/25 08:00

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

SAMPLE ANALYTE COUNT

Project: AMEREN LCPA
Pace Project No.: 60484432

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60484432001	**L-UMW-7D**	EPA 200.7	ARMN	13	PASI-K
		EPA 200.8	JGP	6	PASI-K
		EPA 7470	MNG	1	PASI-K
		EPA 903.1	JML1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		EPA 300.0	MLL	3	PASI-SA
		SM 2320B	AJWM	1	PASI-K
		SM 2540C	DLJ	1	PASI-K
60484432002	**L-UMW-8D**	EPA 200.7	ARMN	13	PASI-K
		EPA 200.8	JGP	6	PASI-K
		EPA 7470	MNG	1	PASI-K
		EPA 903.1	JML1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		EPA 300.0	MLL	3	PASI-SA
		SM 2320B	AJWM	1	PASI-K
		SM 2540C	DLJ	1	PASI-K
60484432003	**L-UMW-9D**	EPA 200.7	ARMN	13	PASI-K
		EPA 200.8	JGP	6	PASI-K
		EPA 7470	MNG	1	PASI-K
		EPA 903.1	JML1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		EPA 300.0	MLL	3	PASI-SA
		SM 2320B	AJWM	1	PASI-K
		SM 2540C	DLJ	1	PASI-K
60484432004	**L-UMW-FB-1**	EPA 200.7	ARMN	13	PASI-K
		EPA 200.8	JGP	6	PASI-K
		EPA 7470	MNG	1	PASI-K
		EPA 903.1	JML1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		EPA 300.0	MLL	3	PASI-SA
		SM 2320B	AJWM	1	PASI-K
		SM 2540C	DLJ	1	PASI-K
60484432005	**L-UMW-1D**	EPA 200.7	ARMN	13	PASI-K
		EPA 200.8	JGP	6	PASI-K
		EPA 7470	MNG	1	PASI-K
		EPA 903.1	JML1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

SAMPLE ANALYTE COUNT

Project: AMEREN LCPA
Pace Project No.: 60484432

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 300.0	MLL	3	PASI-SA
		SM 2320B	EMB	1	PASI-K
		SM 2540C	DLJ	1	PASI-K
60484432006	**L-UMW-2D**	EPA 200.7	ARMN	13	PASI-K
		EPA 200.8	JGP	6	PASI-K
		EPA 7470	MNG	1	PASI-K
		EPA 903.1	JML1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		EPA 300.0	MLL	3	PASI-SA
		SM 2320B	EMB	1	PASI-K
		SM 2540C	DLJ	1	PASI-K
60484432007	**L-UMW-4D**	EPA 200.7	ARMN	13	PASI-K
		EPA 200.8	JGP	6	PASI-K
		EPA 7470	MNG	1	PASI-K
		EPA 903.1	JML1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		EPA 300.0	MLL	3	PASI-SA
		SM 2320B	EMB	1	PASI-K
		SM 2540C	DLJ	1	PASI-K
60484432008	**L-UMW-5D**	EPA 200.7	ARMN	13	PASI-K
		EPA 200.8	JGP	6	PASI-K
		EPA 7470	MNG	1	PASI-K
		EPA 903.1	JML1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		EPA 300.0	MLL	3	PASI-SA
		SM 2320B	EMB	1	PASI-K
		SM 2540C	DLJ	1	PASI-K
60484432009	**L-UMW-6D**	EPA 200.7	ARMN	13	PASI-K
		EPA 200.8	JGP	6	PASI-K
		EPA 7470	MNG	1	PASI-K
		EPA 903.1	JML1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		EPA 300.0	MLL	3	PASI-SA
		SM 2320B	EMB	1	PASI-K
		SM 2540C	DLJ	1	PASI-K
60484432010	**L-BMW-1D**	EPA 200.7	ARMN	13	PASI-K
		EPA 200.8	JGP	6	PASI-K

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

SAMPLE ANALYTE COUNT

Project: AMEREN LCPA
Pace Project No.: 60484432

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 7470	MNG	1	PASI-K
		EPA 903.1	JML1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		EPA 300.0	MLL	3	PASI-SA
		SM 2320B	EMB	1	PASI-K
		SM 2540C	DLJ	1	PASI-K
60484432011	**L-BMW-2D**	EPA 200.7	ARMN	13	PASI-K
		EPA 200.8	JGP	6	PASI-K
		EPA 7470	MNG	1	PASI-K
		EPA 903.1	JML1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		EPA 300.0	MLL	3	PASI-SA
		SM 2320B	EMB	1	PASI-K
		SM 2540C	DLJ	1	PASI-K
60484432012	**L-UMW-DUP-1**	EPA 200.7	ARMN	13	PASI-K
		EPA 200.8	JGP	6	PASI-K
		EPA 7470	MNG	1	PASI-K
		EPA 903.1	JML1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		EPA 300.0	MLL	3	PASI-SA
		SM 2320B	EMB	1	PASI-K
		SM 2540C	DLJ	1	PASI-K
60484432013	**L-UMW-DUP-2**	EPA 200.7	ARMN	13	PASI-K
		EPA 200.8	JGP	6	PASI-K
		EPA 7470	MNG	1	PASI-K
		EPA 903.1	JML1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		EPA 300.0	MLL	3	PASI-SA
		SM 2320B	EMB	1	PASI-K
		SM 2540C	DLJ	1	PASI-K
60484432014	**L-UMW-FB-2**	EPA 200.7	ARMN	13	PASI-K
		EPA 200.8	JGP	6	PASI-K
		EPA 7470	MNG	1	PASI-K
		EPA 903.1	JML1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		EPA 300.0	MLL	3	PASI-SA
		SM 2320B	EMB	1	PASI-K

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

SAMPLE ANALYTE COUNT

Project: AMEREN LCPA
Pace Project No.: 60484432

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 2540C	DLJ	1	PASI-K
60484432015	**L-UMW-MS-1**	EPA 903.1	JML1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
60484432016	**L-UMW-MSD-1**	EPA 903.1	JML1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
60484432017	**L-UMW-3D**	EPA 200.7	ARMN, CJM	13	PASI-K
		EPA 200.8	JGP	6	PASI-K
		EPA 7470	MNG	1	PASI-K
		EPA 903.1	JML1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		EPA 300.0	MLL	3	PASI-SA
		SM 2320B	EMB	1	PASI-K
		SM 2540C	DLJ	1	PASI-K

PASI-K = Pace Analytical Services - Kansas City
PASI-PA = Pace Analytical Services - Greensburg
PASI-SA = Pace Analytical Services - Salina

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA
Pace Project No.: 60484432

Sample: L-UMW-7D **Lab ID: 60484432001** Collected: 10/17/25 11:10 Received: 10/18/25 08:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City								
Barium	**223**	ug/L	5.0	0.75	1	10/20/25 13:33	10/29/25 16:20	7440-39-3	
Beryllium	**<0.29**	ug/L	1.0	0.29	1	10/20/25 13:33	10/29/25 16:20	7440-41-7	
Boron	**244**	ug/L	100	33.2	1	10/20/25 13:33	10/29/25 16:20	7440-42-8	
Calcium	**142000**	ug/L	200	45.3	1	10/20/25 13:33	10/29/25 16:20	7440-70-2	
Cobalt	**<0.97**	ug/L	5.0	0.97	1	10/20/25 13:33	10/29/25 16:20	7440-48-4	
Iron	**19500**	ug/L	50.0	15.4	1	10/20/25 13:33	10/29/25 16:20	7439-89-6	
Lead	**<3.3**	ug/L	10.0	3.3	1	10/20/25 13:33	10/29/25 16:20	7439-92-1	
Lithium	**30.0**	ug/L	10.0	1.8	1	10/20/25 13:33	10/29/25 16:20	7439-93-2	
Magnesium	**31400**	ug/L	50.0	21.1	1	10/20/25 13:33	10/29/25 16:20	7439-95-4	
Manganese	**1720**	ug/L	5.0	0.42	1	10/20/25 13:33	10/29/25 16:20	7439-96-5	
Molybdenum	**40.9**	ug/L	20.0	0.78	1	10/20/25 13:33	10/29/25 16:20	7439-98-7	
Potassium	**5330**	ug/L	500	45.2	1	10/20/25 13:33	10/29/25 16:20	7440-09-7	
Sodium	**11400**	ug/L	500	31.8	1	10/20/25 13:33	10/29/25 16:20	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Antimony	**<0.12**	ug/L	1.0	0.12	1	10/20/25 13:33	10/21/25 13:41	7440-36-0	
Arsenic	**33.6**	ug/L	1.0	0.13	1	10/20/25 13:33	10/21/25 13:41	7440-38-2	
Cadmium	**<0.062**	ug/L	0.50	0.062	1	10/20/25 13:33	10/21/25 13:41	7440-43-9	
Chromium	**<0.34**	ug/L	1.0	0.34	1	10/20/25 13:33	10/21/25 13:41	7440-47-3	
Selenium	**<0.19**	ug/L	1.0	0.19	1	10/20/25 13:33	10/21/25 13:41	7782-49-2	
Thallium	**<0.11**	ug/L	1.0	0.11	1	10/20/25 13:33	10/21/25 13:41	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Kansas City								
Mercury	**<0.13**	ug/L	0.20	0.13	1	11/07/25 14:00	11/10/25 10:09	7439-97-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Salina								
Chloride	**8.5**	mg/L	1.0	0.18	1		10/31/25 09:04	16887-00-6	
Fluoride	**0.15**	mg/L	0.10	0.040	1		10/31/25 09:04	16984-48-8	
Sulfate	**7.4**	mg/L	1.0	0.096	1		10/31/25 09:04	14808-79-8	
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Kansas City								
Alkalinity, Total as CaCO3	**496**	mg/L	20.0	10.5	1		10/30/25 16:53		
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City								
Total Dissolved Solids	**542**	mg/L	10.0	10.0	1		10/23/25 11:01		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA
Pace Project No.: 60484432

Sample: L-UMW-8D **Lab ID: 60484432002** Collected: 10/17/25 10:25 Received: 10/18/25 08:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City								
Barium	**103**	ug/L	5.0	0.75	1	10/20/25 13:33	10/29/25 16:22	7440-39-3	
Beryllium	**<0.29**	ug/L	1.0	0.29	1	10/20/25 13:33	10/29/25 16:22	7440-41-7	
Boron	**43.1J**	ug/L	100	33.2	1	10/20/25 13:33	10/29/25 16:22	7440-42-8	
Calcium	**29400**	ug/L	200	45.3	1	10/20/25 13:33	10/29/25 16:22	7440-70-2	
Cobalt	**<0.97**	ug/L	5.0	0.97	1	10/20/25 13:33	10/29/25 16:22	7440-48-4	
Iron	**3650**	ug/L	50.0	15.4	1	10/20/25 13:33	10/29/25 16:22	7439-89-6	
Lead	**<3.3**	ug/L	10.0	3.3	1	10/20/25 13:33	10/29/25 16:22	7439-92-1	
Lithium	**2.9J**	ug/L	10.0	1.8	1	10/20/25 13:33	10/29/25 16:22	7439-93-2	
Magnesium	**6870**	ug/L	50.0	21.1	1	10/20/25 13:33	10/29/25 16:22	7439-95-4	
Manganese	**192**	ug/L	5.0	0.42	1	10/20/25 13:33	10/29/25 16:22	7439-96-5	
Molybdenum	**4.8J**	ug/L	20.0	0.78	1	10/20/25 13:33	10/29/25 16:22	7439-98-7	
Potassium	**2090**	ug/L	500	45.2	1	10/20/25 13:33	10/29/25 16:22	7440-09-7	
Sodium	**1750**	ug/L	500	31.8	1	10/20/25 13:33	10/29/25 16:22	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Antimony	**<0.12**	ug/L	1.0	0.12	1	10/20/25 13:33	10/21/25 13:49	7440-36-0	
Arsenic	**11.8**	ug/L	1.0	0.13	1	10/20/25 13:33	10/21/25 13:49	7440-38-2	
Cadmium	**<0.062**	ug/L	0.50	0.062	1	10/20/25 13:33	10/21/25 13:49	7440-43-9	
Chromium	**<0.34**	ug/L	1.0	0.34	1	10/20/25 13:33	10/21/25 13:49	7440-47-3	
Selenium	**<0.19**	ug/L	1.0	0.19	1	10/20/25 13:33	10/21/25 13:49	7782-49-2	
Thallium	**<0.11**	ug/L	1.0	0.11	1	10/20/25 13:33	10/21/25 13:49	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Kansas City								
Mercury	**<0.13**	ug/L	0.20	0.13	1	11/07/25 14:00	11/10/25 10:11	7439-97-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Salina								
Chloride	**0.35J**	mg/L	1.0	0.18	1		10/31/25 09:41	16887-00-6	
Fluoride	**0.13**	mg/L	0.10	0.040	1		10/31/25 09:41	16984-48-8	
Sulfate	**2.3**	mg/L	1.0	0.096	1		10/31/25 09:41	14808-79-8	
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Kansas City								
Alkalinity, Total as CaCO3	**110**	mg/L	20.0	10.5	1		10/30/25 16:53		
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City								
Total Dissolved Solids	**130**	mg/L	5.0	5.0	1		10/23/25 11:01		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA
Pace Project No.: 60484432

Sample: L-UMW-9D **Lab ID: 60484432003** Collected: 10/17/25 09:41 Received: 10/18/25 08:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City								
Barium	**488**	ug/L	5.0	0.75	1	10/20/25 13:33	10/29/25 16:23	7440-39-3	
Beryllium	**<0.29**	ug/L	1.0	0.29	1	10/20/25 13:33	10/29/25 16:23	7440-41-7	
Boron	**74.7J**	ug/L	100	33.2	1	10/20/25 13:33	10/29/25 16:23	7440-42-8	
Calcium	**110000**	ug/L	200	45.3	1	10/20/25 13:33	10/29/25 16:23	7440-70-2	
Cobalt	**<0.97**	ug/L	5.0	0.97	1	10/20/25 13:33	10/29/25 16:23	7440-48-4	
Iron	**23200**	ug/L	50.0	15.4	1	10/20/25 13:33	10/29/25 16:23	7439-89-6	
Lead	**<3.3**	ug/L	10.0	3.3	1	10/20/25 13:33	10/29/25 16:23	7439-92-1	
Lithium	**18.4**	ug/L	10.0	1.8	1	10/20/25 13:33	10/29/25 16:23	7439-93-2	
Magnesium	**28600**	ug/L	50.0	21.1	1	10/20/25 13:33	10/29/25 16:23	7439-95-4	
Manganese	**379**	ug/L	5.0	0.42	1	10/20/25 13:33	10/29/25 16:23	7439-96-5	
Molybdenum	**1.3J**	ug/L	20.0	0.78	1	10/20/25 13:33	10/29/25 16:23	7439-98-7	
Potassium	**4200**	ug/L	500	45.2	1	10/20/25 13:33	10/29/25 16:23	7440-09-7	
Sodium	**13600**	ug/L	500	31.8	1	10/20/25 13:33	10/29/25 16:23	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Antimony	**<0.12**	ug/L	1.0	0.12	1	10/20/25 13:33	10/21/25 13:55	7440-36-0	
Arsenic	**29.8**	ug/L	1.0	0.13	1	10/20/25 13:33	10/21/25 13:55	7440-38-2	
Cadmium	**<0.062**	ug/L	0.50	0.062	1	10/20/25 13:33	10/21/25 13:55	7440-43-9	
Chromium	**0.52J**	ug/L	1.0	0.34	1	10/20/25 13:33	10/21/25 13:55	7440-47-3	
Selenium	**<0.19**	ug/L	1.0	0.19	1	10/20/25 13:33	10/21/25 13:55	7782-49-2	
Thallium	**<0.11**	ug/L	1.0	0.11	1	10/20/25 13:33	10/21/25 13:55	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Kansas City								
Mercury	**<0.13**	ug/L	0.20	0.13	1	11/07/25 14:00	11/10/25 10:14	7439-97-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Salina								
Chloride	**21.3**	mg/L	2.0	0.36	2		10/31/25 14:49	16887-00-6	
Fluoride	**0.17**	mg/L	0.10	0.040	1		10/31/25 09:53	16984-48-8	
Sulfate	**0.10J**	mg/L	1.0	0.096	1		10/31/25 09:53	14808-79-8	
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Kansas City								
Alkalinity, Total as CaCO3	**406**	mg/L	20.0	10.5	1		10/30/25 16:53		
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City								
Total Dissolved Solids	**458**	mg/L	10.0	10.0	1		10/23/25 11:01		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA
Pace Project No.: 60484432

Sample: L-UMW-FB-1 **Lab ID: 60484432004** Collected: 10/17/25 11:15 Received: 10/18/25 08:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City								
Barium	**<0.75**	ug/L	5.0	0.75	1	10/20/25 13:33	10/29/25 16:25	7440-39-3	
Beryllium	**<0.29**	ug/L	1.0	0.29	1	10/20/25 13:33	10/29/25 16:25	7440-41-7	
Boron	**<33.2**	ug/L	100	33.2	1	10/20/25 13:33	10/29/25 16:25	7440-42-8	
Calcium	**<45.3**	ug/L	200	45.3	1	10/20/25 13:33	10/29/25 16:25	7440-70-2	
Cobalt	**<0.97**	ug/L	5.0	0.97	1	10/20/25 13:33	10/29/25 16:25	7440-48-4	
Iron	**<15.4**	ug/L	50.0	15.4	1	10/20/25 13:33	10/29/25 16:25	7439-89-6	
Lead	**<3.3**	ug/L	10.0	3.3	1	10/20/25 13:33	10/29/25 16:25	7439-92-1	
Lithium	**<1.8**	ug/L	10.0	1.8	1	10/20/25 13:33	10/29/25 16:25	7439-93-2	
Magnesium	**<21.1**	ug/L	50.0	21.1	1	10/20/25 13:33	10/29/25 16:25	7439-95-4	
Manganese	**<0.42**	ug/L	5.0	0.42	1	10/20/25 13:33	10/29/25 16:25	7439-96-5	
Molybdenum	**<0.78**	ug/L	20.0	0.78	1	10/20/25 13:33	10/29/25 16:25	7439-98-7	
Potassium	**<45.2**	ug/L	500	45.2	1	10/20/25 13:33	10/29/25 16:25	7440-09-7	
Sodium	**<31.8**	ug/L	500	31.8	1	10/20/25 13:33	10/29/25 16:25	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Antimony	**<0.12**	ug/L	1.0	0.12	1	10/20/25 13:33	10/21/25 13:59	7440-36-0	
Arsenic	**<0.13**	ug/L	1.0	0.13	1	10/20/25 13:33	10/21/25 13:59	7440-38-2	
Cadmium	**<0.062**	ug/L	0.50	0.062	1	10/20/25 13:33	10/21/25 13:59	7440-43-9	
Chromium	**<0.34**	ug/L	1.0	0.34	1	10/20/25 13:33	10/21/25 13:59	7440-47-3	
Selenium	**<0.19**	ug/L	1.0	0.19	1	10/20/25 13:33	10/21/25 13:59	7782-49-2	
Thallium	**<0.11**	ug/L	1.0	0.11	1	10/20/25 13:33	10/21/25 13:59	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Kansas City								
Mercury	**<0.13**	ug/L	0.20	0.13	1	11/07/25 14:00	11/10/25 10:16	7439-97-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Salina								
Chloride	**<0.18**	mg/L	1.0	0.18	1		10/31/25 10:05	16887-00-6	
Fluoride	**<0.040**	mg/L	0.10	0.040	1		10/31/25 10:05	16984-48-8	
Sulfate	**<0.096**	mg/L	1.0	0.096	1		10/31/25 10:05	14808-79-8	
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Kansas City								
Alkalinity, Total as CaCO3	**<10.5**	mg/L	20.0	10.5	1		10/30/25 16:53		
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City								
Total Dissolved Solids	**<5.0**	mg/L	5.0	5.0	1		10/23/25 11:01		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA
Pace Project No.: 60484432

Sample: L-UMW-1D **Lab ID: 60484432005** Collected: 10/20/25 14:05 Received: 10/22/25 08:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City								
Barium	**531**	ug/L	5.0	0.75	1	10/23/25 10:10	11/11/25 11:51	7440-39-3	
Beryllium	**<0.29**	ug/L	1.0	0.29	1	10/23/25 10:10	11/11/25 11:51	7440-41-7	
Boron	**405**	ug/L	100	33.2	1	10/23/25 10:10	11/11/25 11:51	7440-42-8	
Calcium	**151000**	ug/L	200	45.3	1	10/23/25 10:10	11/11/25 11:51	7440-70-2	
Cobalt	**<0.97**	ug/L	5.0	0.97	1	10/23/25 10:10	11/11/25 11:51	7440-48-4	
Iron	**19000**	ug/L	50.0	15.4	1	10/23/25 10:10	11/11/25 11:51	7439-89-6	
Lead	**<3.3**	ug/L	10.0	3.3	1	10/23/25 10:10	11/11/25 11:51	7439-92-1	
Lithium	**22.2**	ug/L	10.0	1.8	1	10/23/25 10:10	11/11/25 11:51	7439-93-2	
Magnesium	**37100**	ug/L	50.0	21.1	1	10/23/25 10:10	11/11/25 11:51	7439-95-4	
Manganese	**405**	ug/L	5.0	0.42	1	10/23/25 10:10	11/11/25 11:51	7439-96-5	
Molybdenum	**2.7J**	ug/L	20.0	0.78	1	10/23/25 10:10	11/11/25 11:51	7439-98-7	B
Potassium	**6070**	ug/L	500	45.2	1	10/23/25 10:10	11/11/25 11:51	7440-09-7	
Sodium	**16400**	ug/L	500	31.8	1	10/23/25 10:10	11/11/25 11:51	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Antimony	**<0.12**	ug/L	1.0	0.12	1	10/23/25 10:10	11/06/25 11:41	7440-36-0	
Arsenic	**42.9**	ug/L	1.0	0.13	1	10/23/25 10:10	11/06/25 11:41	7440-38-2	
Cadmium	**<0.062**	ug/L	0.50	0.062	1	10/23/25 10:10	11/06/25 11:41	7440-43-9	
Chromium	**0.50J**	ug/L	1.0	0.34	1	10/23/25 10:10	11/06/25 11:41	7440-47-3	
Selenium	**<0.19**	ug/L	1.0	0.19	1	10/23/25 10:10	11/06/25 11:41	7782-49-2	
Thallium	**<0.11**	ug/L	1.0	0.11	1	10/23/25 10:10	11/06/25 11:41	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Kansas City								
Mercury	**<0.17**	ug/L	0.20	0.17	1	11/10/25 14:04	11/11/25 10:32	7439-97-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Salina								
Chloride	**8.9**	mg/L	1.0	0.18	1		10/31/25 10:18	16887-00-6	
Fluoride	**0.17**	mg/L	0.10	0.040	1		10/31/25 10:18	16984-48-8	
Sulfate	**14.9**	mg/L	1.0	0.096	1		10/31/25 10:18	14808-79-8	
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Kansas City								
Alkalinity, Total as CaCO3	**553**	mg/L	20.0	10.5	1		11/03/25 16:16		
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City								
Total Dissolved Solids	**599**	mg/L	10.0	10.0	1		10/27/25 10:55		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA
Pace Project No.: 60484432

Sample: L-UMW-2D **Lab ID: 60484432006** Collected: 10/20/25 10:02 Received: 10/22/25 08:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City								
Barium	**121**	ug/L	5.0	0.75	1	10/23/25 10:10	11/11/25 11:52	7440-39-3	
Beryllium	**<0.29**	ug/L	1.0	0.29	1	10/23/25 10:10	11/11/25 11:52	7440-41-7	
Boron	**1210**	ug/L	100	33.2	1	10/23/25 10:10	11/11/25 11:52	7440-42-8	
Calcium	**117000**	ug/L	200	45.3	1	10/23/25 10:10	11/11/25 11:52	7440-70-2	
Cobalt	**<0.97**	ug/L	5.0	0.97	1	10/23/25 10:10	11/11/25 11:52	7440-48-4	
Iron	**4020**	ug/L	50.0	15.4	1	10/23/25 10:10	11/11/25 11:52	7439-89-6	
Lead	**<3.3**	ug/L	10.0	3.3	1	10/23/25 10:10	11/11/25 11:52	7439-92-1	
Lithium	**26.4**	ug/L	10.0	1.8	1	10/23/25 10:10	11/11/25 11:52	7439-93-2	
Magnesium	**23500**	ug/L	50.0	21.1	1	10/23/25 10:10	11/11/25 11:52	7439-95-4	
Manganese	**457**	ug/L	5.0	0.42	1	10/23/25 10:10	11/11/25 11:52	7439-96-5	
Molybdenum	**33.0**	ug/L	20.0	0.78	1	10/23/25 10:10	11/11/25 11:52	7439-98-7	
Potassium	**7040**	ug/L	500	45.2	1	10/23/25 10:10	11/11/25 11:52	7440-09-7	
Sodium	**57500**	ug/L	500	31.8	1	10/23/25 10:10	11/11/25 11:52	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Antimony	**<0.12**	ug/L	1.0	0.12	1	10/23/25 10:10	11/06/25 11:44	7440-36-0	
Arsenic	**0.87J**	ug/L	1.0	0.13	1	10/23/25 10:10	11/06/25 11:44	7440-38-2	
Cadmium	**<0.062**	ug/L	0.50	0.062	1	10/23/25 10:10	11/06/25 11:44	7440-43-9	
Chromium	**<0.34**	ug/L	1.0	0.34	1	10/23/25 10:10	11/06/25 11:44	7440-47-3	
Selenium	**<0.19**	ug/L	1.0	0.19	1	10/23/25 10:10	11/06/25 11:44	7782-49-2	
Thallium	**<0.11**	ug/L	1.0	0.11	1	10/23/25 10:10	11/06/25 11:44	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Kansas City								
Mercury	**<0.17**	ug/L	0.20	0.17	1	11/10/25 14:04	11/11/25 10:34	7439-97-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Salina								
Chloride	**23.5**	mg/L	2.0	0.36	2		10/31/25 15:01	16887-00-6	
Fluoride	**0.30**	mg/L	0.10	0.040	1		10/31/25 10:30	16984-48-8	
Sulfate	**208**	mg/L	50.0	4.8	50		10/31/25 19:32	14808-79-8	
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Kansas City								
Alkalinity, Total as CaCO3	**303**	mg/L	20.0	10.5	1		11/03/25 16:22		
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City								
Total Dissolved Solids	**649**	mg/L	10.0	10.0	1		10/27/25 10:55		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA
Pace Project No.: 60484432

Sample: L-UMW-4D **Lab ID: 60484432007** Collected: 10/21/25 11:40 Received: 10/22/25 08:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City								
Barium	**67.1**	ug/L	5.0	0.75	1	10/23/25 10:10	11/11/25 11:54	7440-39-3	
Beryllium	**<0.29**	ug/L	1.0	0.29	1	10/23/25 10:10	11/11/25 11:54	7440-41-7	
Boron	**7500**	ug/L	100	33.2	1	10/23/25 10:10	11/11/25 11:54	7440-42-8	
Calcium	**59100**	ug/L	200	45.3	1	10/23/25 10:10	11/11/25 11:54	7440-70-2	
Cobalt	**<0.97**	ug/L	5.0	0.97	1	10/23/25 10:10	11/11/25 11:54	7440-48-4	
Iron	**203**	ug/L	50.0	15.4	1	10/23/25 10:10	11/11/25 11:54	7439-89-6	
Lead	**<3.3**	ug/L	10.0	3.3	1	10/23/25 10:10	11/11/25 11:54	7439-92-1	
Lithium	**23.7**	ug/L	10.0	1.8	1	10/23/25 10:10	11/11/25 11:54	7439-93-2	
Magnesium	**6790**	ug/L	50.0	21.1	1	10/23/25 10:10	11/11/25 11:54	7439-95-4	
Manganese	**245**	ug/L	5.0	0.42	1	10/23/25 10:10	11/11/25 11:54	7439-96-5	
Molybdenum	**429**	ug/L	20.0	0.78	1	10/23/25 10:10	11/11/25 11:54	7439-98-7	
Potassium	**7400**	ug/L	500	45.2	1	10/23/25 10:10	11/11/25 11:54	7440-09-7	
Sodium	**85500**	ug/L	500	31.8	1	10/23/25 10:10	11/11/25 11:54	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Antimony	**<0.12**	ug/L	1.0	0.12	1	10/23/25 10:10	11/06/25 11:46	7440-36-0	
Arsenic	**<0.13**	ug/L	1.0	0.13	1	10/23/25 10:10	11/06/25 11:46	7440-38-2	
Cadmium	**0.15J**	ug/L	0.50	0.062	1	10/23/25 10:10	11/06/25 11:46	7440-43-9	
Chromium	**<0.34**	ug/L	1.0	0.34	1	10/23/25 10:10	11/06/25 11:46	7440-47-3	
Selenium	**<0.19**	ug/L	1.0	0.19	1	10/23/25 10:10	11/06/25 11:46	7782-49-2	
Thallium	**<0.11**	ug/L	1.0	0.11	1	10/23/25 10:10	11/06/25 11:46	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Kansas City								
Mercury	**<0.17**	ug/L	0.20	0.17	1	11/10/25 14:04	11/11/25 10:48	7439-97-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Salina								
Chloride	**21.6**	mg/L	2.0	0.36	2		10/31/25 15:26	16887-00-6	
Fluoride	**0.35**	mg/L	0.10	0.040	1		10/31/25 11:07	16984-48-8	
Sulfate	**263**	mg/L	20.0	1.9	20		10/31/25 16:03	14808-79-8	
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Kansas City								
Alkalinity, Total as CaCO3	**77.3**	mg/L	20.0	10.5	1		11/04/25 23:04		
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City								
Total Dissolved Solids	**536**	mg/L	10.0	10.0	1		10/28/25 10:58		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA
Pace Project No.: 60484432

Sample: L-UMW-5D **Lab ID: 60484432008** Collected: 10/20/25 15:14 Received: 10/22/25 08:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City								
Barium	**88.0**	ug/L	5.0	0.75	1	10/23/25 10:10	11/11/25 11:56	7440-39-3	
Beryllium	**<0.29**	ug/L	1.0	0.29	1	10/23/25 10:10	11/11/25 11:56	7440-41-7	
Boron	**9880**	ug/L	100	33.2	1	10/23/25 10:10	11/11/25 11:56	7440-42-8	
Calcium	**97900**	ug/L	200	45.3	1	10/23/25 10:10	11/11/25 11:56	7440-70-2	
Cobalt	**<0.97**	ug/L	5.0	0.97	1	10/23/25 10:10	11/11/25 11:56	7440-48-4	
Iron	**16.2J**	ug/L	50.0	15.4	1	10/23/25 10:10	11/11/25 11:56	7439-89-6	
Lead	**<3.3**	ug/L	10.0	3.3	1	10/23/25 10:10	11/11/25 11:56	7439-92-1	
Lithium	**19.0**	ug/L	10.0	1.8	1	10/23/25 10:10	11/11/25 11:56	7439-93-2	
Magnesium	**148**	ug/L	50.0	21.1	1	10/23/25 10:10	11/11/25 11:56	7439-95-4	
Manganese	**10.5**	ug/L	5.0	0.42	1	10/23/25 10:10	11/11/25 11:56	7439-96-5	
Molybdenum	**660**	ug/L	20.0	0.78	1	10/23/25 10:10	11/11/25 11:56	7439-98-7	
Potassium	**14700**	ug/L	500	45.2	1	10/23/25 10:10	11/11/25 11:56	7440-09-7	
Sodium	**89100**	ug/L	500	31.8	1	10/23/25 10:10	11/11/25 11:56	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Antimony	**<0.12**	ug/L	1.0	0.12	1	10/23/25 10:10	11/06/25 11:53	7440-36-0	
Arsenic	**16.7**	ug/L	1.0	0.13	1	10/23/25 10:10	11/06/25 11:53	7440-38-2	
Cadmium	**0.23J**	ug/L	0.50	0.062	1	10/23/25 10:10	11/06/25 11:53	7440-43-9	
Chromium	**<0.34**	ug/L	1.0	0.34	1	10/23/25 10:10	11/06/25 11:53	7440-47-3	
Selenium	**0.19J**	ug/L	1.0	0.19	1	10/23/25 10:10	11/06/25 11:53	7782-49-2	
Thallium	**<0.11**	ug/L	1.0	0.11	1	10/23/25 10:10	11/06/25 11:53	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Kansas City								
Mercury	**<0.17**	ug/L	0.20	0.17	1	11/10/25 14:04	11/11/25 10:54	7439-97-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Salina								
Chloride	**20.7**	mg/L	2.0	0.36	2		10/31/25 16:15	16887-00-6	
Fluoride	**0.096J**	mg/L	0.10	0.040	1		10/31/25 11:19	16984-48-8	
Sulfate	**352**	mg/L	50.0	4.8	50		10/31/25 16:27	14808-79-8	
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Kansas City								
Alkalinity, Total as CaCO3	**74.9**	mg/L	20.0	10.5	1		11/03/25 16:27		
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City								
Total Dissolved Solids	**649**	mg/L	10.0	10.0	1		10/27/25 10:56		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA
Pace Project No.: 60484432

Sample: L-UMW-6D **Lab ID: 60484432009** Collected: 10/21/25 10:17 Received: 10/22/25 08:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City								
Barium	**81.5**	ug/L	5.0	0.75	1	10/23/25 10:10	11/11/25 11:45	7440-39-3	
Beryllium	**<0.29**	ug/L	1.0	0.29	1	10/23/25 10:10	11/11/25 11:45	7440-41-7	
Boron	**9770**	ug/L	100	33.2	1	10/23/25 10:10	11/11/25 11:45	7440-42-8	
Calcium	**128000**	ug/L	200	45.3	1	10/23/25 10:10	11/11/25 11:45	7440-70-2	M1,P6
Cobalt	**<0.97**	ug/L	5.0	0.97	1	10/23/25 10:10	11/11/25 11:45	7440-48-4	
Iron	**401**	ug/L	50.0	15.4	1	10/23/25 10:10	11/11/25 11:45	7439-89-6	
Lead	**<3.3**	ug/L	10.0	3.3	1	10/23/25 10:10	11/11/25 11:45	7439-92-1	
Lithium	**8.3J**	ug/L	10.0	1.8	1	10/23/25 10:10	11/11/25 11:45	7439-93-2	
Magnesium	**2350**	ug/L	50.0	21.1	1	10/23/25 10:10	11/11/25 11:45	7439-95-4	
Manganese	**262**	ug/L	5.0	0.42	1	10/23/25 10:10	11/11/25 11:45	7439-96-5	
Molybdenum	**442**	ug/L	20.0	0.78	1	10/23/25 10:10	11/11/25 11:45	7439-98-7	
Potassium	**14200**	ug/L	500	45.2	1	10/23/25 10:10	11/11/25 11:45	7440-09-7	
Sodium	**189000**	ug/L	500	31.8	1	10/23/25 10:10	11/11/25 11:45	7440-23-5	M1,P6
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Antimony	**<0.12**	ug/L	1.0	0.12	1	10/23/25 10:10	11/06/25 11:30	7440-36-0	
Arsenic	**17.5**	ug/L	1.0	0.13	1	10/23/25 10:10	11/06/25 11:30	7440-38-2	
Cadmium	**0.15J**	ug/L	0.50	0.062	1	10/23/25 10:10	11/06/25 11:30	7440-43-9	
Chromium	**<0.34**	ug/L	1.0	0.34	1	10/23/25 10:10	11/06/25 11:30	7440-47-3	
Selenium	**<0.19**	ug/L	1.0	0.19	1	10/23/25 10:10	11/06/25 11:30	7782-49-2	
Thallium	**<0.11**	ug/L	1.0	0.11	1	10/23/25 10:10	11/06/25 11:30	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Kansas City								
Mercury	**<0.17**	ug/L	0.20	0.17	1	11/10/25 14:04	11/11/25 10:57	7439-97-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Salina								
Chloride	**19.1**	mg/L	2.0	0.36	2		10/31/25 16:40	16887-00-6	
Fluoride	**<0.040**	mg/L	0.10	0.040	1		10/31/25 11:32	16984-48-8	
Sulfate	**668**	mg/L	100	9.6	100		10/31/25 17:16	14808-79-8	
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Kansas City								
Alkalinity, Total as CaCO3	**64.4**	mg/L	20.0	10.5	1		11/04/25 23:09		D6
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City								
Total Dissolved Solids	**1060**	mg/L	13.3	13.3	1		10/28/25 10:58		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA
Pace Project No.: 60484432

Sample: L-BMW-1D **Lab ID: 60484432010** Collected: 10/21/25 10:30 Received: 10/22/25 08:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City								
Barium	**957**	ug/L	5.0	0.75	1	10/23/25 10:10	11/11/25 12:03	7440-39-3	
Beryllium	**<0.29**	ug/L	1.0	0.29	1	10/23/25 10:10	11/11/25 12:03	7440-41-7	
Boron	**76.4J**	ug/L	100	33.2	1	10/23/25 10:10	11/11/25 12:03	7440-42-8	
Calcium	**125000**	ug/L	200	45.3	1	10/23/25 10:10	11/11/25 12:03	7440-70-2	
Cobalt	**<0.97**	ug/L	5.0	0.97	1	10/23/25 10:10	11/11/25 12:03	7440-48-4	
Iron	**10000**	ug/L	50.0	15.4	1	10/23/25 10:10	11/11/25 12:03	7439-89-6	
Lead	**<3.3**	ug/L	10.0	3.3	1	10/23/25 10:10	11/11/25 12:03	7439-92-1	
Lithium	**25.1**	ug/L	10.0	1.8	1	10/23/25 10:10	11/11/25 12:03	7439-93-2	
Magnesium	**27700**	ug/L	50.0	21.1	1	10/23/25 10:10	11/11/25 12:03	7439-95-4	
Manganese	**623**	ug/L	5.0	0.42	1	10/23/25 10:10	11/11/25 12:03	7439-96-5	
Molybdenum	**2.4J**	ug/L	20.0	0.78	1	10/23/25 10:10	11/11/25 12:03	7439-98-7	B
Potassium	**4170**	ug/L	500	45.2	1	10/23/25 10:10	11/11/25 12:03	7440-09-7	
Sodium	**7580**	ug/L	500	31.8	1	10/23/25 10:10	11/11/25 12:03	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Antimony	**<0.12**	ug/L	1.0	0.12	1	10/23/25 10:10	11/06/25 11:55	7440-36-0	
Arsenic	**2.6**	ug/L	1.0	0.13	1	10/23/25 10:10	11/06/25 11:55	7440-38-2	
Cadmium	**<0.062**	ug/L	0.50	0.062	1	10/23/25 10:10	11/06/25 11:55	7440-43-9	
Chromium	**<0.34**	ug/L	1.0	0.34	1	10/23/25 10:10	11/06/25 11:55	7440-47-3	
Selenium	**<0.19**	ug/L	1.0	0.19	1	10/23/25 10:10	11/06/25 11:55	7782-49-2	
Thallium	**<0.11**	ug/L	1.0	0.11	1	10/23/25 10:10	11/06/25 11:55	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Kansas City								
Mercury	**<0.17**	ug/L	0.20	0.17	1	11/10/25 14:04	11/11/25 11:04	7439-97-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Salina								
Chloride	**6.4**	mg/L	1.0	0.18	1		10/31/25 12:09	16887-00-6	
Fluoride	**0.21**	mg/L	0.10	0.040	1		10/31/25 12:09	16984-48-8	
Sulfate	**20.6**	mg/L	2.0	0.19	2		10/31/25 17:53	14808-79-8	
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Kansas City								
Alkalinity, Total as CaCO3	**431**	mg/L	20.0	10.5	1		11/04/25 23:21		
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City								
Total Dissolved Solids	**473**	mg/L	10.0	10.0	1		10/28/25 10:58		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA
Pace Project No.: 60484432

Sample: L-BMW-2D **Lab ID: 60484432011** Collected: 10/21/25 09:02 Received: 10/22/25 08:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City								
Barium	**294**	ug/L	5.0	0.75	1	10/23/25 10:10	11/11/25 12:05	7440-39-3	
Beryllium	**<0.29**	ug/L	1.0	0.29	1	10/23/25 10:10	11/11/25 12:05	7440-41-7	
Boron	**66.6J**	ug/L	100	33.2	1	10/23/25 10:10	11/11/25 12:05	7440-42-8	
Calcium	**127000**	ug/L	200	45.3	1	10/23/25 10:10	11/11/25 12:05	7440-70-2	
Cobalt	**<0.97**	ug/L	5.0	0.97	1	10/23/25 10:10	11/11/25 12:05	7440-48-4	
Iron	**6620**	ug/L	50.0	15.4	1	10/23/25 10:10	11/11/25 12:05	7439-89-6	
Lead	**<3.3**	ug/L	10.0	3.3	1	10/23/25 10:10	11/11/25 12:05	7439-92-1	
Lithium	**39.5**	ug/L	10.0	1.8	1	10/23/25 10:10	11/11/25 12:05	7439-93-2	
Magnesium	**25300**	ug/L	50.0	21.1	1	10/23/25 10:10	11/11/25 12:05	7439-95-4	
Manganese	**256**	ug/L	5.0	0.42	1	10/23/25 10:10	11/11/25 12:05	7439-96-5	
Molybdenum	**2.4J**	ug/L	20.0	0.78	1	10/23/25 10:10	11/11/25 12:05	7439-98-7	B
Potassium	**3380**	ug/L	500	45.2	1	10/23/25 10:10	11/11/25 12:05	7440-09-7	
Sodium	**5180**	ug/L	500	31.8	1	10/23/25 10:10	11/11/25 12:05	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Antimony	**<0.12**	ug/L	1.0	0.12	1	10/23/25 10:10	11/06/25 11:58	7440-36-0	
Arsenic	**34.5**	ug/L	1.0	0.13	1	10/23/25 10:10	11/06/25 11:58	7440-38-2	
Cadmium	**<0.062**	ug/L	0.50	0.062	1	10/23/25 10:10	11/06/25 11:58	7440-43-9	
Chromium	**0.36J**	ug/L	1.0	0.34	1	10/23/25 10:10	11/06/25 11:58	7440-47-3	
Selenium	**<0.19**	ug/L	1.0	0.19	1	10/23/25 10:10	11/06/25 11:58	7782-49-2	
Thallium	**<0.11**	ug/L	1.0	0.11	1	10/23/25 10:10	11/06/25 11:58	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Kansas City								
Mercury	**<0.17**	ug/L	0.20	0.17	1	11/10/25 14:04	11/11/25 11:06	7439-97-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Salina								
Chloride	**2.4**	mg/L	1.0	0.18	1		10/31/25 12:21	16887-00-6	
Fluoride	**0.15**	mg/L	0.10	0.040	1		10/31/25 12:21	16984-48-8	
Sulfate	**38.6**	mg/L	5.0	0.48	5		10/31/25 18:30	14808-79-8	
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Kansas City								
Alkalinity, Total as CaCO3	**405**	mg/L	20.0	10.5	1		11/04/25 23:28		
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City								
Total Dissolved Solids	**468**	mg/L	10.0	10.0	1		10/28/25 10:58		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA
Pace Project No.: 60484432

Sample: L-UMW-DUP-1 **Lab ID: 60484432012** Collected: 10/20/25 00:00 Received: 10/22/25 08:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City								
Barium	**521**	ug/L	5.0	0.75	1	10/23/25 10:10	11/11/25 12:07	7440-39-3	
Beryllium	**<0.29**	ug/L	1.0	0.29	1	10/23/25 10:10	11/11/25 12:07	7440-41-7	
Boron	**379**	ug/L	100	33.2	1	10/23/25 10:10	11/11/25 12:07	7440-42-8	
Calcium	**147000**	ug/L	200	45.3	1	10/23/25 10:10	11/11/25 12:07	7440-70-2	
Cobalt	**<0.97**	ug/L	5.0	0.97	1	10/23/25 10:10	11/11/25 12:07	7440-48-4	
Iron	**18600**	ug/L	50.0	15.4	1	10/23/25 10:10	11/11/25 12:07	7439-89-6	
Lead	**<3.3**	ug/L	10.0	3.3	1	10/23/25 10:10	11/11/25 12:07	7439-92-1	
Lithium	**24.2**	ug/L	10.0	1.8	1	10/23/25 10:10	11/11/25 12:07	7439-93-2	
Magnesium	**36300**	ug/L	50.0	21.1	1	10/23/25 10:10	11/11/25 12:07	7439-95-4	
Manganese	**402**	ug/L	5.0	0.42	1	10/23/25 10:10	11/11/25 12:07	7439-96-5	
Molybdenum	**2.3J**	ug/L	20.0	0.78	1	10/23/25 10:10	11/11/25 12:07	7439-98-7	B
Potassium	**6090**	ug/L	500	45.2	1	10/23/25 10:10	11/11/25 12:07	7440-09-7	
Sodium	**16100**	ug/L	500	31.8	1	10/23/25 10:10	11/11/25 12:07	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Antimony	**<0.12**	ug/L	1.0	0.12	1	10/23/25 10:10	11/06/25 12:04	7440-36-0	
Arsenic	**42.2**	ug/L	1.0	0.13	1	10/23/25 10:10	11/06/25 12:04	7440-38-2	
Cadmium	**<0.062**	ug/L	0.50	0.062	1	10/23/25 10:10	11/06/25 12:04	7440-43-9	
Chromium	**<0.34**	ug/L	1.0	0.34	1	10/23/25 10:10	11/06/25 12:04	7440-47-3	
Selenium	**<0.19**	ug/L	1.0	0.19	1	10/23/25 10:10	11/06/25 12:04	7782-49-2	
Thallium	**<0.11**	ug/L	1.0	0.11	1	10/23/25 10:10	11/06/25 12:04	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Kansas City								
Mercury	**<0.17**	ug/L	0.20	0.17	1	11/10/25 14:04	11/11/25 11:08	7439-97-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Salina								
Chloride	**8.7**	mg/L	1.0	0.18	1		10/31/25 12:33	16887-00-6	
Fluoride	**0.17**	mg/L	0.10	0.040	1		10/31/25 12:33	16984-48-8	
Sulfate	**15.0**	mg/L	1.0	0.096	1		10/31/25 12:33	14808-79-8	
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Kansas City								
Alkalinity, Total as CaCO3	**559**	mg/L	20.0	10.5	1		11/03/25 16:34		
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City								
Total Dissolved Solids	**592**	mg/L	10.0	10.0	1		10/27/25 10:56		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA
Pace Project No.: 60484432

Sample: L-UMW-DUP-2 **Lab ID: 60484432013** Collected: 10/21/25 00:00 Received: 10/22/25 08:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City								
Barium	**66.3**	ug/L	5.0	0.75	1	10/23/25 10:10	11/11/25 12:09	7440-39-3	
Beryllium	**<0.29**	ug/L	1.0	0.29	1	10/23/25 10:10	11/11/25 12:09	7440-41-7	
Boron	**7500**	ug/L	100	33.2	1	10/23/25 10:10	11/11/25 12:09	7440-42-8	
Calcium	**58500**	ug/L	200	45.3	1	10/23/25 10:10	11/11/25 12:09	7440-70-2	
Cobalt	**<0.97**	ug/L	5.0	0.97	1	10/23/25 10:10	11/11/25 12:09	7440-48-4	
Iron	**212**	ug/L	50.0	15.4	1	10/23/25 10:10	11/11/25 12:09	7439-89-6	
Lead	**<3.3**	ug/L	10.0	3.3	1	10/23/25 10:10	11/11/25 12:09	7439-92-1	
Lithium	**20.6**	ug/L	10.0	1.8	1	10/23/25 10:10	11/11/25 12:09	7439-93-2	
Magnesium	**6770**	ug/L	50.0	21.1	1	10/23/25 10:10	11/11/25 12:09	7439-95-4	
Manganese	**241**	ug/L	5.0	0.42	1	10/23/25 10:10	11/11/25 12:09	7439-96-5	
Molybdenum	**425**	ug/L	20.0	0.78	1	10/23/25 10:10	11/11/25 12:09	7439-98-7	
Potassium	**7370**	ug/L	500	45.2	1	10/23/25 10:10	11/11/25 12:09	7440-09-7	
Sodium	**85000**	ug/L	500	31.8	1	10/23/25 10:10	11/11/25 12:09	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Antimony	**<0.12**	ug/L	1.0	0.12	1	10/23/25 10:10	11/06/25 12:06	7440-36-0	
Arsenic	**<0.13**	ug/L	1.0	0.13	1	10/23/25 10:10	11/06/25 12:06	7440-38-2	
Cadmium	**0.14J**	ug/L	0.50	0.062	1	10/23/25 10:10	11/06/25 12:06	7440-43-9	
Chromium	**0.69J**	ug/L	1.0	0.34	1	10/23/25 10:10	11/06/25 12:06	7440-47-3	
Selenium	**<0.19**	ug/L	1.0	0.19	1	10/23/25 10:10	11/06/25 12:06	7782-49-2	
Thallium	**<0.11**	ug/L	1.0	0.11	1	10/23/25 10:10	11/06/25 12:06	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Kansas City								
Mercury	**<0.17**	ug/L	0.20	0.17	1	11/10/25 14:04	11/11/25 11:11	7439-97-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Salina								
Chloride	**21.5**	mg/L	2.0	0.36	2		10/31/25 18:43	16887-00-6	
Fluoride	**0.36**	mg/L	0.10	0.040	1		10/31/25 12:46	16984-48-8	
Sulfate	**279**	mg/L	20.0	1.9	20		10/31/25 18:55	14808-79-8	
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Kansas City								
Alkalinity, Total as CaCO3	**69.0**	mg/L	20.0	10.5	1		11/05/25 13:14		H1
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City								
Total Dissolved Solids	**540**	mg/L	10.0	10.0	1		10/28/25 10:58		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA
Pace Project No.: 60484432

Sample: L-UMW-FB-2 **Lab ID: 60484432014** Collected: 10/21/25 15:00 Received: 10/22/25 08:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City								
Barium	**<0.75**	ug/L	5.0	0.75	1	10/23/25 10:10	11/11/25 12:11	7440-39-3	
Beryllium	**<0.29**	ug/L	1.0	0.29	1	10/23/25 10:10	11/11/25 12:11	7440-41-7	
Boron	**<33.2**	ug/L	100	33.2	1	10/23/25 10:10	11/11/25 12:11	7440-42-8	
Calcium	**54.1J**	ug/L	200	45.3	1	10/23/25 10:10	11/11/25 12:11	7440-70-2	
Cobalt	**<0.97**	ug/L	5.0	0.97	1	10/23/25 10:10	11/11/25 12:11	7440-48-4	
Iron	**<15.4**	ug/L	50.0	15.4	1	10/23/25 10:10	11/11/25 12:11	7439-89-6	
Lead	**<3.3**	ug/L	10.0	3.3	1	10/23/25 10:10	11/11/25 12:11	7439-92-1	
Lithium	**<1.8**	ug/L	10.0	1.8	1	10/23/25 10:10	11/11/25 12:11	7439-93-2	
Magnesium	**<21.1**	ug/L	50.0	21.1	1	10/23/25 10:10	11/11/25 12:11	7439-95-4	
Manganese	**<0.42**	ug/L	5.0	0.42	1	10/23/25 10:10	11/11/25 12:11	7439-96-5	
Molybdenum	**1.2J**	ug/L	20.0	0.78	1	10/23/25 10:10	11/11/25 12:11	7439-98-7	B
Potassium	**<45.2**	ug/L	500	45.2	1	10/23/25 10:10	11/11/25 12:11	7440-09-7	
Sodium	**51.4J**	ug/L	500	31.8	1	10/23/25 10:10	11/11/25 12:11	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Antimony	**<0.12**	ug/L	1.0	0.12	1	10/23/25 10:10	11/06/25 12:09	7440-36-0	
Arsenic	**<0.13**	ug/L	1.0	0.13	1	10/23/25 10:10	11/06/25 12:09	7440-38-2	
Cadmium	**<0.062**	ug/L	0.50	0.062	1	10/23/25 10:10	11/06/25 12:09	7440-43-9	
Chromium	**0.92J**	ug/L	1.0	0.34	1	10/23/25 10:10	11/06/25 12:09	7440-47-3	
Selenium	**<0.19**	ug/L	1.0	0.19	1	10/23/25 10:10	11/06/25 12:09	7782-49-2	
Thallium	**<0.11**	ug/L	1.0	0.11	1	10/23/25 10:10	11/06/25 12:09	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Kansas City								
Mercury	**<0.17**	ug/L	0.20	0.17	1	11/10/25 14:04	11/11/25 11:13	7439-97-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Salina								
Chloride	**<0.18**	mg/L	1.0	0.18	1		10/31/25 12:58	16887-00-6	
Fluoride	**<0.040**	mg/L	0.10	0.040	1		10/31/25 12:58	16984-48-8	
Sulfate	**<0.096**	mg/L	1.0	0.096	1		10/31/25 12:58	14808-79-8	
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Kansas City								
Alkalinity, Total as CaCO3	**<10.5**	mg/L	20.0	10.5	1		11/04/25 23:34		
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City								
Total Dissolved Solids	**<5.0**	mg/L	5.0	5.0	1		10/28/25 10:58		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA
Pace Project No.: 60484432

Sample: L-UMW-3D **Lab ID: 60484432017** Collected: 10/22/25 10:45 Received: 10/23/25 08:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City								
Barium	**67.1**	ug/L	5.0	0.64	1	10/24/25 09:33	11/03/25 17:55	7440-39-3	
Beryllium	**<0.15**	ug/L	1.0	0.15	1	10/24/25 09:33	11/03/25 17:55	7440-41-7	
Boron	**10400**	ug/L	100	7.3	1	10/24/25 09:33	11/03/25 17:55	7440-42-8	
Calcium	**80100**	ug/L	200	45.3	1	10/24/25 09:33	11/04/25 11:36	7440-70-2	
Cobalt	**<1.4**	ug/L	5.0	1.4	1	10/24/25 09:33	11/03/25 17:55	7440-48-4	
Iron	**450**	ug/L	50.0	8.7	1	10/24/25 09:33	11/03/25 17:55	7439-89-6	
Lead	**<3.4**	ug/L	10.0	3.4	1	10/24/25 09:33	11/03/25 17:55	7439-92-1	
Lithium	**17.9**	ug/L	10.0	2.8	1	10/24/25 09:33	11/03/25 17:55	7439-93-2	
Magnesium	**7700**	ug/L	50.0	21.1	1	10/24/25 09:33	11/04/25 11:36	7439-95-4	
Manganese	**203**	ug/L	5.0	0.52	1	10/24/25 09:33	11/03/25 17:55	7439-96-5	
Molybdenum	**341**	ug/L	20.0	2.1	1	10/24/25 09:33	11/03/25 17:55	7439-98-7	
Potassium	**8520**	ug/L	500	66.6	1	10/24/25 09:33	11/03/25 17:55	7440-09-7	
Sodium	**58500**	ug/L	500	31.8	1	10/24/25 09:33	11/04/25 11:36	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Antimony	**<0.12**	ug/L	1.0	0.12	1	10/28/25 12:55	10/30/25 12:23	7440-36-0	
Arsenic	**1.0**	ug/L	1.0	0.13	1	10/28/25 12:55	10/30/25 12:23	7440-38-2	
Cadmium	**0.10J**	ug/L	0.50	0.062	1	10/28/25 12:55	10/30/25 12:23	7440-43-9	
Chromium	**<0.34**	ug/L	1.0	0.34	1	10/28/25 12:55	10/30/25 12:23	7440-47-3	
Selenium	**0.22J**	ug/L	1.0	0.19	1	10/28/25 12:55	10/30/25 12:23	7782-49-2	
Thallium	**<0.11**	ug/L	1.0	0.11	1	10/28/25 12:55	10/30/25 12:23	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Kansas City								
Mercury	**<0.17**	ug/L	0.20	0.17	1	11/10/25 14:04	11/11/25 11:22	7439-97-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Salina								
Chloride	**22.2**	mg/L	2.0	0.36	2		10/31/25 19:07	16887-00-6	
Fluoride	**0.19**	mg/L	0.10	0.040	1		10/31/25 13:35	16984-48-8	
Sulfate	**269**	mg/L	50.0	4.8	50		10/31/25 19:20	14808-79-8	
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Kansas City								
Alkalinity, Total as CaCO3	**64.6**	mg/L	20.0	10.5	1		11/05/25 22:55		
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City								
Total Dissolved Solids	**545**	mg/L	10.0	10.0	1		10/29/25 09:12		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: AMEREN LCPA
Pace Project No.: 60484432

QC Batch: 954700
QC Batch Method: EPA 7470
Analysis Method: EPA 7470
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60484432001, 60484432002, 60484432003, 60484432004

METHOD BLANK: 3783957 Matrix: Water
Associated Lab Samples: 60484432001, 60484432002, 60484432003, 60484432004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	<0.13	0.20	0.13	11/10/25 09:35	

LABORATORY CONTROL SAMPLE: 3783958

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.3	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3783959 3783960

Parameter	Units	60484431006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	<0.13	5	5	5.0	5.6	100	111	75-125	10	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: AMEREN LCPA
Pace Project No.: 60484432

QC Batch: 954904
QC Batch Method: EPA 7470
Analysis Method: EPA 7470
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60484432005, 60484432006

METHOD BLANK: 3784720 Matrix: Water
Associated Lab Samples: 60484432005, 60484432006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	<0.17	0.20	0.17	11/11/25 09:32	

LABORATORY CONTROL SAMPLE: 3784721

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.9	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3784722 3784723

Parameter	Units	60484431021 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	<0.17	5	5	5.1	4.9	103	99	75-125	4	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: AMEREN LCPA
Pace Project No.: 60484432

QC Batch: 954905
QC Batch Method: EPA 7470
Analysis Method: EPA 7470
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60484432007, 60484432008, 60484432009, 60484432010, 60484432011, 60484432012, 60484432013, 60484432014, 60484432017

METHOD BLANK: 3784724 Matrix: Water
Associated Lab Samples: 60484432007, 60484432008, 60484432009, 60484432010, 60484432011, 60484432012, 60484432013, 60484432014, 60484432017

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	<0.17	0.20	0.17	11/11/25 10:36	

LABORATORY CONTROL SAMPLE: 3784725

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.9	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3784726 3784727

Parameter	Units	60484433004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L		5	5	4.3	4.3	86	87	75-125	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3784728 3784729

Parameter	Units	60484432009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	<0.17	5	5	4.8	4.7	95	94	75-125	2	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3784730 3784731

Parameter	Units	60484583002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L		5	5	5.0	4.8	99	97	75-125	2	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: AMEREN LCPA
Pace Project No.: 60484432

QC Batch: 952222
QC Batch Method: EPA 200.7
Analysis Method: EPA 200.7
Analysis Description: 200.7 Metals, Total
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60484432001, 60484432002, 60484432003, 60484432004

METHOD BLANK: 3774086 Matrix: Water
Associated Lab Samples: 60484432001, 60484432002, 60484432003, 60484432004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Barium	ug/L	<0.75	5.0	0.75	10/29/25 15:49	
Beryllium	ug/L	<0.29	1.0	0.29	10/29/25 15:49	
Boron	ug/L	<33.2	100	33.2	10/29/25 15:49	
Calcium	ug/L	<45.3	200	45.3	10/29/25 15:49	
Cobalt	ug/L	<0.97	5.0	0.97	10/29/25 15:49	
Iron	ug/L	<15.4	50.0	15.4	10/29/25 15:49	
Lead	ug/L	<3.3	10.0	3.3	10/29/25 15:49	
Lithium	ug/L	<1.8	10.0	1.8	10/29/25 15:49	
Magnesium	ug/L	<21.1	50.0	21.1	10/29/25 15:49	
Manganese	ug/L	<0.42	5.0	0.42	10/29/25 15:49	
Molybdenum	ug/L	<0.78	20.0	0.78	10/29/25 15:49	
Potassium	ug/L	<45.2	500	45.2	10/29/25 15:49	
Sodium	ug/L	<31.8	500	31.8	10/29/25 15:49	

LABORATORY CONTROL SAMPLE: 3774087

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	1000	994	99	85-115	
Beryllium	ug/L	1000	1000	100	85-115	
Boron	ug/L	1000	955	96	85-115	
Calcium	ug/L	10000	9990	100	85-115	
Cobalt	ug/L	1000	1020	102	85-115	
Iron	ug/L	10000	10300	103	85-115	
Lead	ug/L	1000	1030	103	85-115	
Lithium	ug/L	1000	1020	102	85-115	
Magnesium	ug/L	10000	9690	97	85-115	
Manganese	ug/L	1000	1010	101	85-115	
Molybdenum	ug/L	1000	1020	102	85-115	
Potassium	ug/L	10000	9960	100	85-115	
Sodium	ug/L	10000	10000	100	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3774088 3774089

Parameter	Units	60484431006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	ug/L	234	1000	1000	1230	1230	99	100	70-130	0	20	
Beryllium	ug/L	0.41J	1000	1000	987	986	99	99	70-130	0	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: AMEREN LCPA
Pace Project No.: 60484432

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3774088 3774089

Parameter	Units	60484431006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Boron	ug/L	5060	1000	1000	6140	6030	108	97	70-130	2	20	
Calcium	ug/L	101000	10000	10000	113000	111000	116	96	70-130	2	20	
Cobalt	ug/L	<0.97	1000	1000	992	987	99	99	70-130	0	20	
Iron	ug/L	7470	10000	10000	17800	17800	103	103	70-130	0	20	
Lead	ug/L	<3.3	1000	1000	1010	1010	100	101	70-130	0	20	
Lithium	ug/L	31.1	1000	1000	1050	1040	102	101	70-130	1	20	
Magnesium	ug/L	21300	10000	10000	31300	31000	100	97	70-130	1	20	
Manganese	ug/L	1130	1000	1000	2140	2110	101	98	70-130	2	20	
Molybdenum	ug/L	234	1000	1000	1270	1260	104	102	70-130	1	20	
Potassium	ug/L	5360	10000	10000	15600	15400	102	100	70-130	1	20	
Sodium	ug/L	62700	10000	10000	73900	72800	112	101	70-130	1	20	

MATRIX SPIKE SAMPLE: 3774090

Parameter	Units	60484431005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	105	1000	1100	100	70-130	
Beryllium	ug/L	<0.29	1000	1000	100	70-130	
Boron	ug/L	8870	1000	9710	84	70-130	
Calcium	ug/L	115000	10000	122000	66	70-130	M1
Cobalt	ug/L	<0.97	1000	1000	100	70-130	
Iron	ug/L	7170	10000	17300	101	70-130	
Lead	ug/L	<3.3	1000	1010	101	70-130	
Lithium	ug/L	34.9	1000	1060	103	70-130	
Magnesium	ug/L	27500	10000	36700	92	70-130	
Manganese	ug/L	306	1000	1310	101	70-130	
Molybdenum	ug/L	518	1000	1560	104	70-130	
Potassium	ug/L	6900	10000	17000	101	70-130	
Sodium	ug/L	64600	10000	73400	88	70-130	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: AMEREN LCPA
Pace Project No.: 60484432

QC Batch: 952621
QC Batch Method: EPA 200.7
Analysis Method: EPA 200.7
Analysis Description: 200.7 Metals, Total
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60484432005, 60484432006, 60484432007, 60484432008, 60484432009, 60484432010, 60484432011, 60484432012, 60484432013, 60484432014

METHOD BLANK: 3775524 Matrix: Water
Associated Lab Samples: 60484432005, 60484432006, 60484432007, 60484432008, 60484432009, 60484432010, 60484432011, 60484432012, 60484432013, 60484432014

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Barium	ug/L	<0.75	5.0	0.75	11/11/25 11:41	
Beryllium	ug/L	<0.29	1.0	0.29	11/11/25 11:41	
Boron	ug/L	<33.2	100	33.2	11/11/25 11:41	
Calcium	ug/L	<45.3	200	45.3	11/11/25 11:41	
Cobalt	ug/L	<0.97	5.0	0.97	11/11/25 11:41	
Iron	ug/L	<15.4	50.0	15.4	11/11/25 11:41	
Lead	ug/L	<3.3	10.0	3.3	11/11/25 11:41	
Lithium	ug/L	<1.8	10.0	1.8	11/11/25 11:41	
Magnesium	ug/L	<21.1	50.0	21.1	11/11/25 11:41	
Manganese	ug/L	<0.42	5.0	0.42	11/11/25 11:41	
Molybdenum	ug/L	0.83J	20.0	0.78	11/11/25 11:41	
Potassium	ug/L	<45.2	500	45.2	11/11/25 11:41	
Sodium	ug/L	<31.8	500	31.8	11/11/25 11:41	

LABORATORY CONTROL SAMPLE: 3775525

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	1000	1000	100	85-115	
Beryllium	ug/L	1000	1000	100	85-115	
Boron	ug/L	1000	957	96	85-115	
Calcium	ug/L	10000	10200	102	85-115	
Cobalt	ug/L	1000	998	100	85-115	
Iron	ug/L	10000	10000	100	85-115	
Lead	ug/L	1000	1000	100	85-115	
Lithium	ug/L	1000	994	99	85-115	
Magnesium	ug/L	10000	9780	98	85-115	
Manganese	ug/L	1000	992	99	85-115	
Molybdenum	ug/L	1000	1010	101	85-115	
Potassium	ug/L	10000	9750	98	85-115	
Sodium	ug/L	10000	9940	99	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3775526 3775527

Parameter	Units	60484432009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	ug/L	81.5	1000	1000	1070	1080	99	100	70-130	0	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: AMEREN LCPA
Pace Project No.: 60484432

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3775526 3775527

Parameter	Units	60484432009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Beryllium	ug/L	<0.29	1000	1000	1030	1040	103	104	70-130	1	20	
Boron	ug/L	9770	1000	1000	10600	10500	78	73	70-130	0	20	
Calcium	ug/L	128000	10000	10000	134000	133000	67	55	70-130	1	20	M1
Cobalt	ug/L	<0.97	1000	1000	978	999	98	100	70-130	2	20	
Iron	ug/L	401	10000	10000	10400	10500	100	101	70-130	1	20	
Lead	ug/L	<3.3	1000	1000	975	985	98	98	70-130	1	20	
Lithium	ug/L	8.3J	1000	1000	1000	1010	100	100	70-130	1	20	
Magnesium	ug/L	2350	10000	10000	11900	12000	95	96	70-130	1	20	
Manganese	ug/L	262	1000	1000	1230	1240	96	98	70-130	1	20	
Molybdenum	ug/L	442	1000	1000	1450	1470	100	102	70-130	1	20	
Potassium	ug/L	14200	10000	10000	23800	24000	95	97	70-130	1	20	
Sodium	ug/L	189000	10000	10000	194000	192000	47	34	70-130	1	20	M1

SAMPLE DUPLICATE: 3785261

Parameter	Units	60484432014 Result	Dup Result	RPD	Max RPD	Qualifiers
Barium	ug/L	<0.75	<0.75		20	
Beryllium	ug/L	<0.29	<0.29		20	
Boron	ug/L	<33.2	<33.2		20	
Calcium	ug/L	54.1J	<45.3		20	
Cobalt	ug/L	<0.97	<0.97		20	
Iron	ug/L	<15.4	<15.4		19	
Lead	ug/L	<3.3	<3.3		27	
Lithium	ug/L	<1.8	<1.8		20	
Magnesium	ug/L	<21.1	<21.1		20	
Manganese	ug/L	<0.42	<0.42		12	
Molybdenum	ug/L	1.2J	0.91J		20	
Potassium	ug/L	<45.2	<45.2		20	
Sodium	ug/L	51.4J	<31.8		20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: AMEREN LCPA
Pace Project No.: 60484432

QC Batch: 952811
QC Batch Method: EPA 200.7
Analysis Method: EPA 200.7
Analysis Description: 200.7 Metals, Total
Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60484432017

METHOD BLANK: 3776415 Matrix: Water
Associated Lab Samples: 60484432017

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Barium	ug/L	0.90J	5.0	0.64	11/03/25 17:08	
Beryllium	ug/L	<0.15	1.0	0.15	11/03/25 17:08	
Boron	ug/L	<7.3	100	7.3	11/03/25 17:08	
Calcium	ug/L	<45.3	200	45.3	11/03/25 17:08	
Cobalt	ug/L	<1.4	5.0	1.4	11/03/25 17:08	
Iron	ug/L	<8.7	50.0	8.7	11/03/25 17:08	
Lead	ug/L	<3.4	10.0	3.4	11/03/25 17:08	
Lithium	ug/L	<2.8	10.0	2.8	11/03/25 17:08	
Magnesium	ug/L	<21.1	50.0	21.1	11/03/25 17:08	
Manganese	ug/L	<0.52	5.0	0.52	11/03/25 17:08	
Molybdenum	ug/L	<2.1	20.0	2.1	11/03/25 17:08	
Potassium	ug/L	<66.6	500	66.6	11/03/25 17:08	
Sodium	ug/L	<31.8	500	31.8	11/03/25 17:08	

LABORATORY CONTROL SAMPLE: 3776416

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	1000	1030	103	85-115	
Beryllium	ug/L	1000	1040	104	85-115	
Boron	ug/L	1000	977	98	85-115	
Calcium	ug/L	10000	10400	104	85-115	
Cobalt	ug/L	1000	1050	105	85-115	
Iron	ug/L	10000	10500	105	85-115	
Lead	ug/L	1000	1030	103	85-115	
Lithium	ug/L	1000	989	99	85-115	
Magnesium	ug/L	10000	10300	103	85-115	
Manganese	ug/L	1000	1030	103	85-115	
Molybdenum	ug/L	1000	1030	103	85-115	
Potassium	ug/L	10000	10000	100	85-115	
Sodium	ug/L	10000	10100	101	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3776417 3776418

Parameter	Units	60484550001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	ug/L	17.4	1000	1000	1050	1080	104	106	70-130	2	20	
Beryllium	ug/L	1.2	1000	1000	1060	1080	106	107	70-130	2	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: AMEREN LCPA
Pace Project No.: 60484432

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3776417 3776418

Parameter	Units	60484550001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Boron	ug/L	547	1000	1000	1560	1600	102	105	70-130	2	20	
Calcium	ug/L	68000	10000	10000	80100	80500	121	125	70-130	0	20	
Cobalt	ug/L	ND	1000	1000	1040	1060	103	106	70-130	2	20	
Iron	ug/L	ND	10000	10000	10600	10900	106	109	70-130	3	20	
Lead	ug/L	ND	1000	1000	1010	1030	101	103	70-130	2	20	
Lithium	ug/L	33.1	1000	1000	1140	1160	111	113	70-130	2	20	
Magnesium	ug/L	15500	10000	10000	26100	26200	106	107	70-130	0	20	
Manganese	ug/L	6.6	1000	1000	1030	1050	102	104	70-130	2	20	
Molybdenum	ug/L	ND	1000	1000	1070	1090	106	108	70-130	2	20	
Potassium	ug/L	58400	10000	10000	71900	71600	135	132	70-130	0	20	M1
Sodium	ug/L	769000	10000	10000	790000	791000	217	226	70-130	0	20	M1

MATRIX SPIKE SAMPLE: 3776419

Parameter	Units	60484621001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	142	1000	1190	105	70-130	
Beryllium	ug/L	ND	1000	1040	104	70-130	
Boron	ug/L	ND	1000	1010	97	70-130	
Calcium	ug/L	80000	10000	86900	69	70-130	M1
Cobalt	ug/L	ND	1000	1040	104	70-130	
Iron	ug/L	2850	10000	13300	105	70-130	
Lead	ug/L	ND	1000	1030	103	70-130	
Lithium	ug/L	ND	1000	1050	105	70-130	
Magnesium	ug/L	13100	10000	22200	91	70-130	
Manganese	ug/L	79.9	1000	1100	102	70-130	
Molybdenum	ug/L	ND	1000	1050	105	70-130	
Potassium	ug/L	63600	10000	73000	94	70-130	
Sodium	ug/L	112000	10000	117000	44	70-130	M1

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: AMEREN LCPA
Pace Project No.: 60484432

QC Batch: 952225
QC Batch Method: EPA 200.8
Analysis Method: EPA 200.8
Analysis Description: 200.8 MET
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60484432001, 60484432002, 60484432003, 60484432004

METHOD BLANK: 3774101 Matrix: Water
Associated Lab Samples: 60484432001, 60484432002, 60484432003, 60484432004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	ug/L	<0.12	1.0	0.12	10/21/25 12:43	
Arsenic	ug/L	<0.13	1.0	0.13	10/21/25 12:43	
Cadmium	ug/L	<0.062	0.50	0.062	10/21/25 12:43	
Chromium	ug/L	<0.34	1.0	0.34	10/21/25 12:43	
Selenium	ug/L	<0.19	1.0	0.19	10/21/25 12:43	
Thallium	ug/L	<0.11	1.0	0.11	10/21/25 12:43	

LABORATORY CONTROL SAMPLE: 3774102

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	40	38.5	96	85-115	
Arsenic	ug/L	40	40.7	102	85-115	
Cadmium	ug/L	40	40.9	102	85-115	
Chromium	ug/L	40	40.8	102	85-115	
Selenium	ug/L	40	42.0	105	85-115	
Thallium	ug/L	40	38.7	97	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3774103 3774104

Parameter	Units	60484431006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	ug/L	<0.12	40	40	39.5	39.0	99	97	70-130	1	20	
Arsenic	ug/L	0.38J	40	40	41.9	41.2	104	102	70-130	2	20	
Cadmium	ug/L	0.078J	40	40	40.3	39.7	100	99	70-130	1	20	
Chromium	ug/L	<0.34	40	40	40.9	40.2	102	100	70-130	2	20	
Selenium	ug/L	<0.19	40	40	39.7	40.0	99	100	70-130	1	20	
Thallium	ug/L	<0.11	40	40	41.7	40.8	104	102	70-130	2	20	

MATRIX SPIKE SAMPLE: 3774105

Parameter	Units	60484432002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	<0.12	40	38.4	96	70-130	
Arsenic	ug/L	11.8	40	52.1	101	70-130	
Cadmium	ug/L	<0.062	40	40.2	101	70-130	
Chromium	ug/L	<0.34	40	40.4	101	70-130	
Selenium	ug/L	<0.19	40	40.3	100	70-130	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: AMEREN LCPA
Pace Project No.: 60484432

MATRIX SPIKE SAMPLE: 3774105

Parameter	Units	60484432002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Thallium	ug/L	<0.11	40	39.7	99	70-130	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: AMEREN LCPA
Pace Project No.: 60484432

QC Batch: 952622
QC Batch Method: EPA 200.8
Analysis Method: EPA 200.8
Analysis Description: 200.8 MET
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60484432005, 60484432006, 60484432007, 60484432008, 60484432009, 60484432010, 60484432011, 60484432012, 60484432013, 60484432014

METHOD BLANK: 3775529 Matrix: Water
Associated Lab Samples: 60484432005, 60484432006, 60484432007, 60484432008, 60484432009, 60484432010, 60484432011, 60484432012, 60484432013, 60484432014

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	ug/L	<0.12	1.0	0.12	11/06/25 11:25	
Arsenic	ug/L	<0.13	1.0	0.13	11/06/25 11:25	
Cadmium	ug/L	<0.062	0.50	0.062	11/06/25 11:25	
Chromium	ug/L	<0.34	1.0	0.34	11/06/25 11:25	
Selenium	ug/L	<0.19	1.0	0.19	11/06/25 11:25	
Thallium	ug/L	<0.11	1.0	0.11	11/06/25 11:25	

LABORATORY CONTROL SAMPLE: 3775530

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	40	39.6	99	85-115	
Arsenic	ug/L	40	37.2	93	85-115	
Cadmium	ug/L	40	40.2	100	85-115	
Chromium	ug/L	40	38.7	97	85-115	
Selenium	ug/L	40	39.0	98	85-115	
Thallium	ug/L	40	38.2	96	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3775531 3775532

Parameter	Units	60484432009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	ug/L	<0.12	40	40	38.9	39.2	97	98	70-130	1	20	
Arsenic	ug/L	17.5	40	40	55.4	56.8	95	98	70-130	2	20	
Cadmium	ug/L	0.15J	40	40	38.0	38.1	95	95	70-130	0	20	
Chromium	ug/L	<0.34	40	40	36.9	37.6	91	93	70-130	2	20	
Selenium	ug/L	<0.19	40	40	37.3	37.9	93	94	70-130	2	20	
Thallium	ug/L	<0.11	40	40	40.4	40.8	101	102	70-130	1	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: AMEREN LCPA
Pace Project No.: 60484432

QC Batch: 953224
QC Batch Method: EPA 200.8
Analysis Method: EPA 200.8
Analysis Description: 200.8 MET
Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60484432017

METHOD BLANK: 3778023 Matrix: Water
Associated Lab Samples: 60484432017

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	ug/L	<0.12	1.0	0.12	10/30/25 11:57	
Arsenic	ug/L	<0.13	1.0	0.13	10/30/25 11:57	
Cadmium	ug/L	<0.062	0.50	0.062	10/30/25 11:57	
Chromium	ug/L	<0.34	1.0	0.34	10/30/25 11:57	
Selenium	ug/L	<0.19	1.0	0.19	10/30/25 11:57	
Thallium	ug/L	<0.11	1.0	0.11	10/30/25 11:57	

LABORATORY CONTROL SAMPLE: 3778024

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	40	39.4	99	85-115	
Arsenic	ug/L	40	40.2	100	85-115	
Cadmium	ug/L	40	41.0	102	85-115	
Chromium	ug/L	40	41.7	104	85-115	
Selenium	ug/L	40	40.5	101	85-115	
Thallium	ug/L	40	40.7	102	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3778025 3778026

Parameter	Units	60484719001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	ug/L	ND	40	40	39.5	38.8	98	97	70-130	2	20	
Arsenic	ug/L	ND	40	40	40.1	39.5	99	98	70-130	1	20	
Cadmium	ug/L	ND	40	40	39.3	39.3	98	98	70-130	0	20	
Chromium	ug/L	ND	40	40	40.3	39.8	100	98	70-130	1	20	
Selenium	ug/L	ND	40	40	37.9	38.4	95	96	70-130	1	20	
Thallium	ug/L	ND	40	40	39.5	39.3	99	98	70-130	1	20	

MATRIX SPIKE SAMPLE: 3778027

Parameter	Units	60484431032 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L		40	39.2	98	70-130	
Arsenic	ug/L		40	60.1	99	70-130	
Cadmium	ug/L		40	38.6	96	70-130	
Chromium	ug/L		40	40.0	99	70-130	
Selenium	ug/L		40	37.3	92	70-130	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: AMEREN LCPA
Pace Project No.: 60484432

MATRIX SPIKE SAMPLE: 3778027

Parameter	Units	60484431032 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Thallium	ug/L		40	39.4	99	70-130	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: AMEREN LCPA
Pace Project No.: 60484432

QC Batch: 953724
QC Batch Method: EPA 300.0
Analysis Method: EPA 300.0
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Salina
Associated Lab Samples: 60484432001, 60484432002, 60484432003, 60484432004, 60484432005, 60484432006, 60484432007, 60484432008, 60484432009, 60484432010, 60484432011, 60484432012, 60484432013, 60484432014, 60484432017

METHOD BLANK: 3779898 Matrix: Water
Associated Lab Samples: 60484432001, 60484432002, 60484432003, 60484432004, 60484432005, 60484432006, 60484432007, 60484432008, 60484432009, 60484432010, 60484432011, 60484432012, 60484432013, 60484432014, 60484432017

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	<0.18	1.0	0.18	10/31/25 08:39	
Fluoride	mg/L	<0.040	0.10	0.040	10/31/25 08:39	
Sulfate	mg/L	<0.096	1.0	0.096	10/31/25 08:39	

LABORATORY CONTROL SAMPLE: 3779899

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.7	94	90-110	
Fluoride	mg/L	2.5	2.6	103	90-110	
Sulfate	mg/L	5	4.9	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3779900 3779901

Parameter	Units	60484432001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	8.5	5	5	12.9	13.0	89	89	80-120	0	15	
Fluoride	mg/L	0.15	2.5	2.5	2.7	2.7	102	100	80-120	1	15	
Sulfate	mg/L	7.4	5	5	12.3	12.3	99	99	80-120	0	15	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3779902 3779903

Parameter	Units	60484432009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	19.1	10	10	29.6	29.6	105	105	80-120	0	15	
Fluoride	mg/L	<0.040	2.5	2.5	2.5	2.5	102	100	80-120	2	15	
Sulfate	mg/L	668	500	500	1170	1190	101	103	80-120	1	15	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: AMEREN LCPA
Pace Project No.: 60484432

QC Batch: 953528 | Analysis Method: SM 2320B
QC Batch Method: SM 2320B | Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60484432001, 60484432002, 60484432003, 60484432004

METHOD BLANK: 3779185 Matrix: Water
Associated Lab Samples: 60484432001, 60484432002, 60484432003, 60484432004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<10.5	20.0	10.5	10/30/25 16:52	

LABORATORY CONTROL SAMPLE: 3779186

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	500	502	100	90-110	

SAMPLE DUPLICATE: 3779187

Parameter	Units	60484246021 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	460	444	4	10	

SAMPLE DUPLICATE: 3779188

Parameter	Units	60484431006 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	276	570	70	10	D6

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: AMEREN LCPA
Pace Project No.: 60484432

QC Batch: 953892 | Analysis Method: SM 2320B
QC Batch Method: SM 2320B | Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60484432005, 60484432006, 60484432008, 60484432012

METHOD BLANK: 3780864 Matrix: Water
Associated Lab Samples: 60484432005, 60484432006, 60484432008, 60484432012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<10.5	20.0	10.5	11/03/25 14:28	

LABORATORY CONTROL SAMPLE: 3780865

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	500	475	95	90-110	

SAMPLE DUPLICATE: 3780866

Parameter	Units	60484431021 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	285	283	0	10	

SAMPLE DUPLICATE: 3780867

Parameter	Units	60484581008 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	222	222	0	10	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: AMEREN LCPA
Pace Project No.: 60484432

QC Batch: 954127 | Analysis Method: SM 2320B
QC Batch Method: SM 2320B | Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60484432007, 60484432009, 60484432010, 60484432011, 60484432014

METHOD BLANK: 3781518 Matrix: Water
Associated Lab Samples: 60484432007, 60484432009, 60484432010, 60484432011, 60484432014

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<10.5	20.0	10.5	11/04/25 21:17	

LABORATORY CONTROL SAMPLE: 3781519

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	500	484	97	90-110	

SAMPLE DUPLICATE: 3781520

Parameter	Units	60484433004 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	144	262	58	10	D6

SAMPLE DUPLICATE: 3781521

Parameter	Units	60484432009 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	64.4	57.9	11	10	D6

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: AMEREN LCPA
Pace Project No.: 60484432

QC Batch: 954208
QC Batch Method: SM 2320B
Analysis Method: SM 2320B
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60484432017

METHOD BLANK: 3781815 Matrix: Water
Associated Lab Samples: 60484432017

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<10.5	20.0	10.5	11/05/25 20:08	

LABORATORY CONTROL SAMPLE: 3781816

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	500	488	98	90-110	

SAMPLE DUPLICATE: 3781817

Parameter	Units	60484432017 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	64.6	65.5	1	10	

SAMPLE DUPLICATE: 3781818

Parameter	Units	60484431032 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	464	465	0	10	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: AMEREN LCPA
Pace Project No.: 60484432

QC Batch: 954303
QC Batch Method: SM 2320B
Analysis Method: SM 2320B
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60484432013

METHOD BLANK: 3782160 Matrix: Water
Associated Lab Samples: 60484432013

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<10.5	20.0	10.5	11/05/25 12:55	

LABORATORY CONTROL SAMPLE: 3782161

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	500	486	97	90-110	

SAMPLE DUPLICATE: 3782162

Parameter	Units	60484432013 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	69.0	70.5	2	10	H1

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: AMEREN LCPA
Pace Project No.: 60484432

QC Batch: 952616 | Analysis Method: SM 2540C
QC Batch Method: SM 2540C | Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60484432001, 60484432002, 60484432003, 60484432004

METHOD BLANK: 3775512 Matrix: Water
Associated Lab Samples: 60484432001, 60484432002, 60484432003, 60484432004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<5.0	5.0	5.0	10/23/25 10:59	

LABORATORY CONTROL SAMPLE: 3775513

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	1000	1000	100	80-120	

SAMPLE DUPLICATE: 3775514

Parameter	Units	60484431001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	306	298	3	10	

SAMPLE DUPLICATE: 3775515

Parameter	Units	60484431006 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	607	611	1	10	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: AMEREN LCPA
Pace Project No.: 60484432

QC Batch: 953036
QC Batch Method: SM 2540C
Analysis Method: SM 2540C
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60484432005, 60484432006, 60484432008, 60484432012

METHOD BLANK: 3777331 Matrix: Water
Associated Lab Samples: 60484432005, 60484432006, 60484432008, 60484432012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<5.0	5.0	5.0	10/27/25 10:55	

LABORATORY CONTROL SAMPLE: 3777332

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	1000	1000	100	80-120	

SAMPLE DUPLICATE: 3777333

Parameter	Units	60484431028 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	<5.0	<5.0		10	

SAMPLE DUPLICATE: 3777334

Parameter	Units	60484583002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	785	787	0	10	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: AMEREN LCPA
Pace Project No.: 60484432

QC Batch: 953151 | Analysis Method: SM 2540C
QC Batch Method: SM 2540C | Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60484432007, 60484432009, 60484432010, 60484432011, 60484432013, 60484432014

METHOD BLANK: 3777820 Matrix: Water
Associated Lab Samples: 60484432007, 60484432009, 60484432010, 60484432011, 60484432013, 60484432014

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<5.0	5.0	5.0	10/28/25 10:56	

LABORATORY CONTROL SAMPLE: 3777821

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	1000	1010	101	80-120	

SAMPLE DUPLICATE: 3777822

Parameter	Units	60484433004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	639	645	1	10	

SAMPLE DUPLICATE: 3777823

Parameter	Units	60484432009 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1060	1060	0	10	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: AMEREN LCPA
Pace Project No.: 60484432

QC Batch: 953276
QC Batch Method: SM 2540C
Analysis Method: SM 2540C
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60484432017

METHOD BLANK: 3778215 Matrix: Water
Associated Lab Samples: 60484432017

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<5.0	5.0	5.0	10/29/25 09:11	

LABORATORY CONTROL SAMPLE: 3778216

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	1000	1000	100	80-120	

SAMPLE DUPLICATE: 3778217

Parameter	Units	60484604001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	5600	5580	0	10	

SAMPLE DUPLICATE: 3778218

Parameter	Units	60484431032 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	735	741	1	10	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: AMEREN LCPA
Pace Project No.: 60484432

Sample: L-UMW-7D **Lab ID: 60484432001** Collected: 10/17/25 11:10 Received: 10/18/25 08:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.725 ± 0.569 (0.791) C:NA T:87%**	pCi/L	11/17/25 15:25	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.581 ± 0.302 (0.508) C:78% T:92%**	pCi/L	11/13/25 11:40	15262-20-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: AMEREN LCPA
Pace Project No.: 60484432

Sample: L-UMW-8D **Lab ID: 60484432002** Collected: 10/17/25 10:25 Received: 10/18/25 08:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
		Pace Analytical Services - Greensburg				
Radium-226	EPA 903.1	**-0.221 ± 0.662 (1.39) C:NA T:90%**	pCi/L	11/17/25 15:25	13982-63-3	
		Pace Analytical Services - Greensburg				
Radium-228	EPA 904.0	**0.336 ± 0.309 (0.624) C:76% T:90%**	pCi/L	11/13/25 11:40	15262-20-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: AMEREN LCPA
Pace Project No.: 60484432

Sample: L-UMW-9D **Lab ID: 60484432003** Collected: 10/17/25 09:41 Received: 10/18/25 08:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.258 ± 0.439 (0.775) C:NA T:86%**	pCi/L	11/17/25 15:25	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.310 ± 0.268 (0.539) C:82% T:102%**	pCi/L	11/13/25 11:40	15262-20-1	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: AMEREN LCPA
Pace Project No.: 60484432

Sample: L-UMW-FB-1 **Lab ID: 60484432004** Collected: 10/17/25 11:15 Received: 10/18/25 08:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.345 ± 0.424 (0.691) C:NA T:95%**	pCi/L	11/17/25 15:25	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.315 ± 0.406 (0.868) C:80% T:87%**	pCi/L	11/13/25 11:40	15262-20-1	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: AMEREN LCPA
Pace Project No.: 60484432

Sample: L-UMW-1D **Lab ID: 60484432005** Collected: 10/20/25 14:05 Received: 10/22/25 08:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.216 ± 0.336 (0.583) C:NA T:94%**	pCi/L	11/17/25 15:25	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**2.41 ± 0.665 (0.776) C:80% T:90%**	pCi/L	11/13/25 11:40	15262-20-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: AMEREN LCPA
Pace Project No.: 60484432

Sample: L-UMW-2D **Lab ID: 60484432006** Collected: 10/20/25 10:02 Received: 10/22/25 08:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.477 ± 0.441 (0.642) C:NA T:86%**	pCi/L	11/17/25 15:25	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**1.19 ± 0.488 (0.777) C:78% T:81%**	pCi/L	11/13/25 11:40	15262-20-1	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: AMEREN LCPA
Pace Project No.: 60484432

Sample: L-UMW-4D **Lab ID: 60484432007** Collected: 10/21/25 11:40 Received: 10/22/25 08:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.116 ± 0.557 (1.05) C:NA T:91%**	pCi/L	11/17/25 15:25	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.736 ± 0.468 (0.907) C:73% T:94%**	pCi/L	11/13/25 11:40	15262-20-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: AMEREN LCPA
Pace Project No.: 60484432

Sample: L-UMW-5D **Lab ID: 60484432008** Collected: 10/20/25 15:14 Received: 10/22/25 08:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
		Pace Analytical Services - Greensburg				
Radium-226	EPA 903.1	**0.561 ± 0.446 (0.579) C:NA T:89%**	pCi/L	11/17/25 15:36	13982-63-3	
		Pace Analytical Services - Greensburg				
Radium-228	EPA 904.0	**0.679 ± 0.372 (0.670) C:84% T:84%**	pCi/L	11/13/25 11:40	15262-20-1	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: AMEREN LCPA
Pace Project No.: 60484432

Sample: L-UMW-6D **Lab ID: 60484432009** Collected: 10/21/25 10:17 Received: 10/22/25 08:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.281 ± 0.319 (0.504) C:NA T:87%**	pCi/L	11/17/25 15:36	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**1.03 ± 0.418 (0.645) C:81% T:85%**	pCi/L	11/13/25 11:40	15262-20-1	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: AMEREN LCPA
Pace Project No.: 60484432

Sample: L-BMW-1D **Lab ID: 60484432010** Collected: 10/21/25 10:30 Received: 10/22/25 08:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
		Pace Analytical Services - Greensburg				
Radium-226	EPA 903.1	**2.10 ± 0.818 (0.687) C:NA T:88%**	pCi/L	11/17/25 15:36	13982-63-3	
		Pace Analytical Services - Greensburg				
Radium-228	EPA 904.0	**1.41 ± 0.457 (0.568) C:85% T:82%**	pCi/L	11/13/25 11:40	15262-20-1	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: AMEREN LCPA
Pace Project No.: 60484432

Sample: L-BMW-2D **Lab ID: 60484432011** Collected: 10/21/25 09:02 Received: 10/22/25 08:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.000 ± 0.397 (0.840) C:NA T:89%**	pCi/L	11/17/25 15:36	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.383 ± 0.306 (0.604) C:81% T:97%**	pCi/L	11/13/25 11:40	15262-20-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: AMEREN LCPA
Pace Project No.: 60484432

Sample: L-UMW-DUP-1 **Lab ID: 60484432012** Collected: 10/20/25 00:00 Received: 10/22/25 08:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.212 ± 0.500 (0.925) C:NA T:89%**	pCi/L	11/17/25 15:36	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**2.06 ± 0.606 (0.737) C:79% T:89%**	pCi/L	11/13/25 11:40	15262-20-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: AMEREN LCPA
Pace Project No.: 60484432

Sample: L-UMW-DUP-2 **Lab ID: 60484432013** Collected: 10/21/25 00:00 Received: 10/22/25 08:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
		Pace Analytical Services - Greensburg				
Radium-226	EPA 903.1	**0.237 ± 0.286 (0.436) C:NA T:95%**	pCi/L	11/17/25 15:36	13982-63-3	
		Pace Analytical Services - Greensburg				
Radium-228	EPA 904.0	**0.539 ± 0.445 (0.885) C:64% T:82%**	pCi/L	11/13/25 11:40	15262-20-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: AMEREN LCPA
Pace Project No.: 60484432

Sample: L-UMW-FB-2 **Lab ID: 60484432014** Collected: 10/21/25 15:00 Received: 10/22/25 08:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**-0.0595 ± 0.272 (0.552) C:NA T:88%**	pCi/L	11/17/25 15:36	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.345 ± 0.311 (0.622) C:80% T:83%**	pCi/L	11/13/25 11:40	15262-20-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: AMEREN LCPA
Pace Project No.: 60484432

Sample: L-UMW-MS-1 **Lab ID: 60484432015** Collected: 10/21/25 10:17 Received: 10/22/25 08:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**132.17 %REC ± NA (NA) C:NA T:NA**	pCi/L	11/17/25 15:36	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**98.37 %REC ± NA (NA) C:NA T:NA**	pCi/L	11/13/25 11:40	15262-20-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: AMEREN LCPA
Pace Project No.: 60484432

Sample: L-UMW-MSD-1 **Lab ID: 60484432016** Collected: 10/21/25 10:17 Received: 10/22/25 08:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**146.29 %REC 10.15RPD ± NA (NA) C:NA T:NA**	pCi/L	11/17/25 15:48	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**85.20 %REC 14.35RPD ± NA (NA) C:NA T:NA**	pCi/L	11/13/25 11:40	15262-20-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: AMEREN LCPA
Pace Project No.: 60484432

Sample: L-UMW-3D **Lab ID: 60484432017** Collected: 10/22/25 10:45 Received: 10/23/25 08:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.172 ± 0.374 (0.690) C:NA T:92%**	pCi/L	11/17/25 15:48	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.930 ± 0.434 (0.726) C:75% T:82%**	pCi/L	11/13/25 11:40	15262-20-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL - RADIOCHEMISTRY

Project: AMEREN LCPA
Pace Project No.: 60484432

QC Batch: 780527
QC Batch Method: EPA 904.0
Analysis Method: EPA 904.0
Analysis Description: 904.0 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 60484432001, 60484432002, 60484432003, 60484432004, 60484432005, 60484432006, 60484432007, 60484432008, 60484432009, 60484432010, 60484432011, 60484432012, 60484432013, 60484432014, 60484432015, 60484432016, 60484432017

METHOD BLANK: 3806684
Matrix: Water
Associated Lab Samples: 60484432001, 60484432002, 60484432003, 60484432004, 60484432005, 60484432006, 60484432007, 60484432008, 60484432009, 60484432010, 60484432011, 60484432012, 60484432013, 60484432014, 60484432015, 60484432016, 60484432017

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.152 ± 0.272 (0.595) C:83% T:85%	pCi/L	11/13/25 11:40	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL - RADIOCHEMISTRY

Project: AMEREN LCPA
Pace Project No.: 60484432

QC Batch: 780526
QC Batch Method: EPA 903.1
Analysis Method: EPA 903.1
Analysis Description: 903.1 Radium-226
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 60484432001, 60484432002, 60484432003, 60484432004, 60484432005, 60484432006, 60484432007, 60484432008, 60484432009, 60484432010, 60484432011, 60484432012, 60484432013, 60484432014, 60484432015, 60484432016, 60484432017

METHOD BLANK: 3806682
Matrix: Water
Associated Lab Samples: 60484432001, 60484432002, 60484432003, 60484432004, 60484432005, 60484432006, 60484432007, 60484432008, 60484432009, 60484432010, 60484432011, 60484432012, 60484432013, 60484432014, 60484432015, 60484432016, 60484432017

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0781 ± 0.188 (0.362) C:NA T:104%	pCi/L	11/17/25 15:25	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALIFIERS

Project: AMEREN LCPA
Pace Project No.: 60484432

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval). Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

B	Analyte was detected in the associated method blank.
D6	The precision between the sample and sample duplicate exceeded laboratory control limits.
H1	Analysis conducted outside the EPA method holding time.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
P6	Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: AMEREN LCPA
Pace Project No.: 60484432

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60484432001	**L-UMW-7D**	EPA 200.7	952222	EPA 200.7	952243
60484432002	**L-UMW-8D**	EPA 200.7	952222	EPA 200.7	952243
60484432003	**L-UMW-9D**	EPA 200.7	952222	EPA 200.7	952243
60484432004	**L-UMW-FB-1**	EPA 200.7	952222	EPA 200.7	952243
60484432005	**L-UMW-1D**	EPA 200.7	952621	EPA 200.7	952713
60484432006	**L-UMW-2D**	EPA 200.7	952621	EPA 200.7	952713
60484432007	**L-UMW-4D**	EPA 200.7	952621	EPA 200.7	952713
60484432008	**L-UMW-5D**	EPA 200.7	952621	EPA 200.7	952713
60484432009	**L-UMW-6D**	EPA 200.7	952621	EPA 200.7	952713
60484432010	**L-BMW-1D**	EPA 200.7	952621	EPA 200.7	952713
60484432011	**L-BMW-2D**	EPA 200.7	952621	EPA 200.7	952713
60484432012	**L-UMW-DUP-1**	EPA 200.7	952621	EPA 200.7	952713
60484432013	**L-UMW-DUP-2**	EPA 200.7	952621	EPA 200.7	952713
60484432014	**L-UMW-FB-2**	EPA 200.7	952621	EPA 200.7	952713
60484432017	**L-UMW-3D**	EPA 200.7	952811	EPA 200.7	952836
60484432001	**L-UMW-7D**	EPA 200.8	952225	EPA 200.8	952244
60484432002	**L-UMW-8D**	EPA 200.8	952225	EPA 200.8	952244
60484432003	**L-UMW-9D**	EPA 200.8	952225	EPA 200.8	952244
60484432004	**L-UMW-FB-1**	EPA 200.8	952225	EPA 200.8	952244
60484432005	**L-UMW-1D**	EPA 200.8	952622	EPA 200.8	952714
60484432006	**L-UMW-2D**	EPA 200.8	952622	EPA 200.8	952714
60484432007	**L-UMW-4D**	EPA 200.8	952622	EPA 200.8	952714
60484432008	**L-UMW-5D**	EPA 200.8	952622	EPA 200.8	952714
60484432009	**L-UMW-6D**	EPA 200.8	952622	EPA 200.8	952714
60484432010	**L-BMW-1D**	EPA 200.8	952622	EPA 200.8	952714
60484432011	**L-BMW-2D**	EPA 200.8	952622	EPA 200.8	952714
60484432012	**L-UMW-DUP-1**	EPA 200.8	952622	EPA 200.8	952714
60484432013	**L-UMW-DUP-2**	EPA 200.8	952622	EPA 200.8	952714
60484432014	**L-UMW-FB-2**	EPA 200.8	952622	EPA 200.8	952714
60484432017	**L-UMW-3D**	EPA 200.8	953224	EPA 200.8	953266
60484432001	**L-UMW-7D**	EPA 7470	954700	EPA 7470	954721
60484432002	**L-UMW-8D**	EPA 7470	954700	EPA 7470	954721
60484432003	**L-UMW-9D**	EPA 7470	954700	EPA 7470	954721
60484432004	**L-UMW-FB-1**	EPA 7470	954700	EPA 7470	954721
60484432005	**L-UMW-1D**	EPA 7470	954904	EPA 7470	954931
60484432006	**L-UMW-2D**	EPA 7470	954904	EPA 7470	954931
60484432007	**L-UMW-4D**	EPA 7470	954905	EPA 7470	954932
60484432008	**L-UMW-5D**	EPA 7470	954905	EPA 7470	954932
60484432009	**L-UMW-6D**	EPA 7470	954905	EPA 7470	954932
60484432010	**L-BMW-1D**	EPA 7470	954905	EPA 7470	954932
60484432011	**L-BMW-2D**	EPA 7470	954905	EPA 7470	954932
60484432012	**L-UMW-DUP-1**	EPA 7470	954905	EPA 7470	954932
60484432013	**L-UMW-DUP-2**	EPA 7470	954905	EPA 7470	954932
60484432014	**L-UMW-FB-2**	EPA 7470	954905	EPA 7470	954932
60484432017	**L-UMW-3D**	EPA 7470	954905	EPA 7470	954932

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: AMEREN LCPA
Pace Project No.: 60484432

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60484432001	**L-UMW-7D**	EPA 903.1	780526		
60484432002	**L-UMW-8D**	EPA 903.1	780526		
60484432003	**L-UMW-9D**	EPA 903.1	780526		
60484432004	**L-UMW-FB-1**	EPA 903.1	780526		
60484432005	**L-UMW-1D**	EPA 903.1	780526		
60484432006	**L-UMW-2D**	EPA 903.1	780526		
60484432007	**L-UMW-4D**	EPA 903.1	780526		
60484432008	**L-UMW-5D**	EPA 903.1	780526		
60484432009	**L-UMW-6D**	EPA 903.1	780526		
60484432010	**L-BMW-1D**	EPA 903.1	780526		
60484432011	**L-BMW-2D**	EPA 903.1	780526		
60484432012	**L-UMW-DUP-1**	EPA 903.1	780526		
60484432013	**L-UMW-DUP-2**	EPA 903.1	780526		
60484432014	**L-UMW-FB-2**	EPA 903.1	780526		
60484432015	**L-UMW-MS-1**	EPA 903.1	780526		
60484432016	**L-UMW-MSD-1**	EPA 903.1	780526		
60484432017	**L-UMW-3D**	EPA 903.1	780526		
60484432001	**L-UMW-7D**	EPA 904.0	780527		
60484432002	**L-UMW-8D**	EPA 904.0	780527		
60484432003	**L-UMW-9D**	EPA 904.0	780527		
60484432004	**L-UMW-FB-1**	EPA 904.0	780527		
60484432005	**L-UMW-1D**	EPA 904.0	780527		
60484432006	**L-UMW-2D**	EPA 904.0	780527		
60484432007	**L-UMW-4D**	EPA 904.0	780527		
60484432008	**L-UMW-5D**	EPA 904.0	780527		
60484432009	**L-UMW-6D**	EPA 904.0	780527		
60484432010	**L-BMW-1D**	EPA 904.0	780527		
60484432011	**L-BMW-2D**	EPA 904.0	780527		
60484432012	**L-UMW-DUP-1**	EPA 904.0	780527		
60484432013	**L-UMW-DUP-2**	EPA 904.0	780527		
60484432014	**L-UMW-FB-2**	EPA 904.0	780527		
60484432015	**L-UMW-MS-1**	EPA 904.0	780527		
60484432016	**L-UMW-MSD-1**	EPA 904.0	780527		
60484432017	**L-UMW-3D**	EPA 904.0	780527		
60484432001	**L-UMW-7D**	EPA 300.0	953724		
60484432002	**L-UMW-8D**	EPA 300.0	953724		
60484432003	**L-UMW-9D**	EPA 300.0	953724		
60484432004	**L-UMW-FB-1**	EPA 300.0	953724		
60484432005	**L-UMW-1D**	EPA 300.0	953724		
60484432006	**L-UMW-2D**	EPA 300.0	953724		
60484432007	**L-UMW-4D**	EPA 300.0	953724		
60484432008	**L-UMW-5D**	EPA 300.0	953724		
60484432009	**L-UMW-6D**	EPA 300.0	953724		
60484432010	**L-BMW-1D**	EPA 300.0	953724		
60484432011	**L-BMW-2D**	EPA 300.0	953724		
60484432012	**L-UMW-DUP-1**	EPA 300.0	953724		
60484432013	**L-UMW-DUP-2**	EPA 300.0	953724		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: AMEREN LCPA
Pace Project No.: 60484432

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60484432014	**L-UMW-FB-2**	EPA 300.0	953724		
60484432017	**L-UMW-3D**	EPA 300.0	953724		
60484432001	**L-UMW-7D**	SM 2320B	953528		
60484432002	**L-UMW-8D**	SM 2320B	953528		
60484432003	**L-UMW-9D**	SM 2320B	953528		
60484432004	**L-UMW-FB-1**	SM 2320B	953528		
60484432005	**L-UMW-1D**	SM 2320B	953892		
60484432006	**L-UMW-2D**	SM 2320B	953892		
60484432007	**L-UMW-4D**	SM 2320B	954127		
60484432008	**L-UMW-5D**	SM 2320B	953892		
60484432009	**L-UMW-6D**	SM 2320B	954127		
60484432010	**L-BMW-1D**	SM 2320B	954127		
60484432011	**L-BMW-2D**	SM 2320B	954127		
60484432012	**L-UMW-DUP-1**	SM 2320B	953892		
60484432013	**L-UMW-DUP-2**	SM 2320B	954303		
60484432014	**L-UMW-FB-2**	SM 2320B	954127		
60484432017	**L-UMW-3D**	SM 2320B	954208		
60484432001	**L-UMW-7D**	SM 2540C	952616		
60484432002	**L-UMW-8D**	SM 2540C	952616		
60484432003	**L-UMW-9D**	SM 2540C	952616		
60484432004	**L-UMW-FB-1**	SM 2540C	952616		
60484432005	**L-UMW-1D**	SM 2540C	953036		
60484432006	**L-UMW-2D**	SM 2540C	953036		
60484432007	**L-UMW-4D**	SM 2540C	953151		
60484432008	**L-UMW-5D**	SM 2540C	953036		
60484432009	**L-UMW-6D**	SM 2540C	953151		
60484432010	**L-BMW-1D**	SM 2540C	953151		
60484432011	**L-BMW-2D**	SM 2540C	953151		
60484432012	**L-UMW-DUP-1**	SM 2540C	953036		
60484432013	**L-UMW-DUP-2**	SM 2540C	953151		
60484432014	**L-UMW-FB-2**	SM 2540C	953151		
60484432017	**L-UMW-3D**	SM 2540C	953276		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

WO# : 60484432

60484432

Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-LENE-0009_Sample Cond		
	Revision: 3	Effective Date: 09/22/2025	Issued By: Lenexa

Client Name: Rocksmith Geoeng

Courier: FedEx ☐ UPS ☐ VIA ☐ Clay ☐ PEX ☐ ECI ☐ Pace ☐ Xroads ☑ Client ☐ Other ☐

Tracking #: _____ Pace Shipping Label Used? Yes ☐ No ☑

Custody Seal on Cooler/Box Present: Yes ☑ No ☐ Seals intact: Yes ☑ No ☐ Cooling process has begun ☐

Packing Material: Bubble Wrap ☐ Bubble Bags ☑ Foam ☐ None ☐ Other ☐

Thermometer Used: T-301 **Type of Ice:** (Wet) Blue None

Cooler Temperature (°C): As-read 12.3/1.2 Corr. Factor 0.0 Corrected 12.3/1.2

Date and initials of person examining contents: AV 10/23/25

Temperature should be above freezing to 6°C

Chain of Custody present:	☑Yes ☐No ☐N/A	
Chain of Custody relinquished:	☑Yes ☐No ☐N/A	
Samples arrived within holding time:	☑Yes ☐No ☐N/A	
Short Hold Time analyses (<72hr):	☐Yes ☑No ☐N/A	
Rush Turn Around Time requested:	☐Yes ☑No ☐N/A	
Sufficient volume:	☑Yes ☐No ☐N/A	
Correct containers used:	☑Yes ☐No ☐N/A	
Pace containers used:	☑Yes ☐No ☐N/A	
Containers intact:	☑Yes ☐No ☐N/A	
Unpreserved 5035A / TX1005/1006 soils frozen in 48hrs?	☐Yes ☐No ☑N/A	
Filtered volume received for dissolved tests?	☐Yes ☐No ☑N/A	
Sample labels match COC: Date / time / ID / analyses	☑Yes ☐No ☐N/A	
Samples contain multiple phases? Matrix: WT	☐Yes ☑No ☐N/A	
Containers requiring pH preservation in compliance? ☑Yes ☐No ☐N/A (HNO_3, H_2SO_4, HCl<2; NaOH>9 Sulfide, NaOH>10 Cyanide) (Exceptions: VOA, Micro, O&G, KS TPH, Radium) **LOT#:** 96888	☑Yes ☐No ☐N/A	List sample IDs, volumes, lot #'s of preservative and the date/time added.
Cyanide water sample checks: Lead acetate strip turns dark? (Record only) Potassium iodide test strip turns blue/purple? (Preserve)	☐Yes ☐No ☐Yes ☐No	
Trip Blank present:	☐Yes ☐No ☑N/A	
Headspace in VOA vials (>6mm):	☐Yes ☐No ☑N/A	
Samples from USDA Regulated Area: State:	☐Yes ☐No ☑N/A	
Additional labels attached to 5035A / TX1005 vials in the field?	☐Yes ☐No ☑N/A	

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: _____

Pace® Location Requested (City/State):
Pace Analytical Kansas
9608 Loiret Blvd., Lenexa, KS 66219

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

6c484432

Scan QR Code for instructions

Company Name:	Rocksmith Geoengineering, LLC.	Contact/Report To:	Mark Haddock
Street Address:	2320 Creve Coeur Mill Road Maryland Heights, MO 63043	Phone #:	314-974-6578
		E-Mail:	mark.haddock@rocksmithgeo.com
		Cc E-Mail:	
Customer Project #:			
Project Name:	AMEREN ~~MO~~ LCPB	Invoice To:	Mark Haddock
		Invoice E-Mail:	mark.haddock@rocksmithgeo.com
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	
		Quote #:	
Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [ ] ET		County / State origin of sample(s):	Missouri

Data Deliverables:
[ ] Level II [ ] Level III [ ] Level IV
[ ] EQUIS
[ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [ ] Yes [ ] No

Rush (Pre-approval required):
[ ] Same Day [ ] 1 Day [ ] 2 Day [ ] 3 Day [ ] Other _____

DW PWSID # or WW Permit # as applicable:

Date Results Requested:

Field Filtered (if applicable): [ ] Yes [ ] No
Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Composite Start Date	Composite Start Time	Collected or Composite End Date	Collected or Composite End Time	# Cont.	Res. Chlorine Results	Res. Chlorine Units	App III and Cat/An Metals* 200.7/200.8 metals + Hg	App IV Metals**	UWL Metals***	COD & TOC	Cl/F/SO4/TDS/Alkalinity	Radium 226/228	Total Organic Halogens			
L-TMW-1	WT																		
L-TMW-2	WT																		
L-TMW-3	WT																		
L-UWL-DUP-1	WT																		
L-UWL-FB-1	WT																		
L-UML-MS-1	WT																		
L-UML-MSD-1	WT																		
L-UMW-3D	WT	G	~~10-22-25~~		10-22-25	1045	6			✓			✓	✓	✓	✓			

Specify Container Size **

Identify Container Preservative Type***

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) 90mL, (10) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only

Proj. Mgr: **Jamie Church**
AcctNum / Client ID:
Table #:
Profile / Template: **15857**
Prelog / Bottle Ord. ID: **EZ 3303689**

Sample Comment

Preservation non-conformance identified for sample.

Additional Instructions from Pace®:
*** App III and Cat/An Metals* - EPA 200.7: Ba, Ca, Fe, Mg, Mn, K, Na**
****App IV Metals -EPA 200.7: Ba,Be,Co,Pb, Li,Mo and 200.8 Metals - Sb, As, Cd, Cr, Se,Tl +7470 Hg**
*****UWL Metals - 200.7: Al, Cu, Ni, Ag, Zn + Hardness**

Collected By: (Printed Name) Daniel Quinn
Signature:

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)	On Ice:
2	T-301	0.0	1.2/2.7	1.2/2.7	

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Rocksmith Dan Quinn	13/9 10.22.25		10/23/25 0800
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

Tracking Number:

Delivered by: [ ] In- Person [ ] Courier
[ ] FedEX [ ] UPS [ ] Other

Page: of

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

Client: Rocksmith Geoeng

Profile/EZ # only print what you log

Site:

Notes Append to 60484432

COC Line Item	Matrix	VG9H	DG9H	DG9Q	VG9U	DG9U	DG9M	DG9B	BG1U	AG1H	AG1U	AG2U	AG3S	AG4U	AG5U	JGFU	WGKU	WGDU	BP1U	BP2U	BP3U	BP1N	BP3N	BP3F	BP3S	BP3B	BP3Z	WPDU	ZPLC	Other		
1																																
2																																
3																																
4																																
5																																
6																																
7																																
8																																
9	WT												2						1			2	1									
10																																
11																																
12																																

Container Codes

Glass			
DG9B	40mL bisulfate clear vial	WGKU	8oz clear soil jar
DG9H	40mL HCl amber voa vial	WGFU	4oz clear soil jar
DG9M	40mL MeOH clear vial	WG2U	2oz clear soil jar
DG9Q	40mL TSP amber vial	JGFU	4oz unpreserved amber wide
DG9S	40mL H2SO4 amber vial	AG0U	100mL unores amber glass
DG9T	40mL Na Thio amber vial	AG1H	1L HCl amber glass
DG9U	40mL amber unpreserved	AG1S	1L H2SO4 amber glass
VG9H	40mL HCl clear vial	AG1T	1L Na Thiosulfate clear/amber glass
VG9T	40mL Na Thio. clear vial	AG1U	1liter unpres amber glass
VG9U	40mL unpreserved clear vial	AG2N	500mL HNO3 amber glass
BG1S	1liter H2SO4 clear glass	AG2S	500mL H2SO4 amber glass
BG1U	1liter unpres glass	AG3S	250mL H2SO4 amber glass
BG3H	250mL HCL Clear glass	AG2U	500mL unpres amber glass
BG3U	250mL Unpres Clear glass	AG3U	250mL unpres amber glass
WGDU	16oz clear soil jar	AG4U	125mL unpres amber glass
		AG5U	100mL unpres amber glass

Plastic	
BP1B	1L NAOH plastic
BP1N	1L HNO3 plastic
BP1S	1L H2SO4 plastic
BP1U	1L unpreserved plastic
BP1Z	1L NaOH, Zn Acetate
BP2B	500mL NAOH plastic
BP2N	500mL HNO3 plastic
BP2S	500mL H2SO4 plastic
BP2U	500mL unpreserved plastic
BP2Z	500mL NaOH, Zn Acetate
BP3B	250mL NaOH plastic
BP3F	250mL HNO3 plastic - field filtered
BP3N	250mL HNO3 plastic
BP3U	250mL unpreserved plastic
BP3S	250mL H2SO4 plastic
BP3Z	250mL NaOH, Zn Acetate
BP4U	125mL unpreserved plastic
BP4N	125mL HNO3 plastic
BP4S	125mL H2SO4 plastic
WPDU	16oz unpresserved plstic

Misc.	
I	Wipe/Swab
SP5T	120mL Coliform Na Thiosulfate
ZPLC	Ziploc Bag
AF	Air Filter
C	Air Cassettes
R	Terracore Kit
U	Summa Can

Matrix	
WT	Water
SL	Solid
NAL	Non-aqueous Liquid
OL	OIL
WP	Wipe
DW	Drinking Water

Work Order Number: 60484432

WO# : 60484432

60484432

Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-LENE-0009_Sample Co		
	Revision: 3	Effective Date: 09/22/2025	Issued By: Lenexa

Client Name: Rocksmith Geoeng

Courier: FedEx ☐ UPS ☐ VIA ☐ Clay ☐ PEX ☐ ECI ☐ Pace ☐ Xroads ☐ Client ☐ Other ☐

Tracking #: _____ Pace Shipping Label Used? Yes ☐ No ☐

Custody Seal on Cooler/Box Present: Yes ☐ No ☐ Seals intact: Yes ☐ No ☐ Cooling process has begun ☐

Packing Material: Bubble Wrap ☐ Bubble Bags ☐ Foam ☐ None ☐ Other ☐

Thermometer Used: T-301 **Type of Ice:** (Wet) Blue None

Cooler Temperature (°C): As-read 0.3/0.5/1.5 Corr. Factor 0.0 Corrected 0.3/0.5/1.5

Date and initials of person examining contents:

Temperature should be above freezing to 6°C 15.4/14.0/13.5 15.4/14.0/13.5 PW 10/22/25

Chain of Custody present:	☐Yes ☐No ☐N/A	
Chain of Custody relinquished:	☐Yes ☐No ☐N/A	
Samples arrived within holding time:	☐Yes ☐No ☐N/A	
Short Hold Time analyses (<72hr):	☐Yes ☐No ☐N/A	
Rush Turn Around Time requested:	☐Yes ☐No ☐N/A	
Sufficient volume:	☐Yes ☐No ☐N/A	
Correct containers used:	☐Yes ☐No ☐N/A	
Pace containers used:	☐Yes ☐No ☐N/A	
Containers intact:	☐Yes ☐No ☐N/A	
Unpreserved 5035A / TX1005/1006 soils frozen in 48hrs?	☐Yes ☐No ☐N/A	
Filtered volume received for dissolved tests?	☐Yes ☐No ☐N/A	
Sample labels match COC: Date / time / ID / analyses	☐Yes ☐No ☐N/A	
Samples contain multiple phases? Matrix: WT	☐Yes ☐No ☐N/A	
Containers requiring pH preservation in compliance? (HNO_3, H_2SO_4, HCl<2; NaOH>9 Sulfide, NaOH>10 Cyanide) (Exceptions: VOA, Micro, O&G, KS TPH, Radium) LOT#: 96888	☐Yes ☐No ☐N/A	List sample IDs, volumes, lot #'s of preservative and the date/time added.
Cyanide water sample checks: Lead acetate strip turns dark? (Record only)	☐Yes ☐No	
Potassium iodide test strip turns blue/purple? (Preserve)	☐Yes ☐No	
Trip Blank present:	☐Yes ☐No ☐N/A	
Headspace in VOA vials (>6mm):	☐Yes ☐No ☐N/A	
Samples from USDA Regulated Area: State:	☐Yes ☐No ☐N/A	
Additional labels attached to 5035A / TX1005 vials in the field?	☐Yes ☐No ☐N/A	

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: _____

Pace® Location Requested (City/State):
Pace Analytical Kansas
9608 Loiret Blvd., Lenexa, KS 66219

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

60484432

Scan QR Code for instructions

Company Name:	Rocksmith Geoengineering, LLC.	Contact/Report To:	Mark Haddock
Street Address:	2320 Creve Coeur Mill Road Maryland Heights, MO 63043	Phone #:	314-974-6578
		E-Mail:	mark.haddock@rocksmithgeo.com
		Cc E-Mail:	
Customer Project #:			
Project Name:	AMEREN LCPA	Invoice To:	Mark Haddock
		Invoice E-Mail:	mark.haddock@rocksmithgeo.com
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	
		Quote #:	
Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [ ] ET		County / State origin of sample(s):	Missouri
Data Deliverables: [ ] Level II [ ] Level III [ ] Level IV [ ] EQUIS [ ] Other		Regulatory Program (DW, RCRA, etc.) as applicable:	Reportable [ ] Yes [ ] No
		Rush (Pre-approval required): [ ] Same Day [ ] 1 Day [ ] 2 Day [ ] 3 Day [ ] Other _____	DW PWSID # or WW Permit # as applicable:
		Date Results Requested:	Field Filtered (if applicable): [ ] Yes [ ] No Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Composite Start Date	Composite Start Time	Collected or Composite End Date	Collected or Composite End Time	# Cont.	Res. Chlorine Results	Res. Chlorine Units	App III and Cat/An Metals*	App IV Metals**	UWL Metals***	COD & TOC	Cl/F/SO4/TDS/Alkalinity	Radium 226/228	Total Organic Halogens	Sample Comment
L-UMW-1D	WT	G			10/20/25	1405	6			✓	✓	✓	✓	✓	✓	✓	
L-UMW-2D	WT	G			10/20/25	1602	6			✓	✓	✓	✓	✓	✓	✓	
L-UMW-3D	WT																
L-UMW-4D	WT	G			10/21/25	1140	6			✓	✓	✓	✓	✓	✓	✓	
L-UMW-5D	WT	G			10/20/25	1514	6			✓	✓	✓	✓	✓	✓	✓	
L-UMW-6D	WT	G			10/21/25	1017	6			✓	✓	✓	✓	✓	✓	✓	
L-UMW-7D	WT																
L-UMW-8D	WT																
L-UMW-9D	WT																
L-BMW-1D	WT	G			10/21/25	1030	6			✓	✓	✓	✓	✓	✓	✓	

Specify Container Size **

Identify Container Preservative Type***

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) 90mL, (10) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only

Proj. Mgr: Jamie Church

AcctNum / Client ID:

Table #:

Profile / Template: 15857

Prelog / Bottle Ord. ID: EZ 3303637

Preservation non-conformance identified for sample.

Additional Instructions from Pace®:
***App III and Cat/An Metals* - EPA 200.7: B, Ca, Fe, Mg, Mn, K, Na**
****App IV Metals - EPA 200.7 -Ba,Be,Co,Pb,Li,Mo and 200.8 Metals - Sb,As,Cd,Cr,Se,Tl +7470 Hg**
*****UWL Metals - 200.7: Al, Cu, Ni, Ag, Zn+ Hardness**

Collected By: (Printed Name) John Lee

Signature:

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)	On Ice:
6	T-301	0.0	0.3	0.3	

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
Rockwell Lee	10/21/25 1600	[signature]	10/22/25 0850	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Delivered by: [ ] In- Person [ ] Courier
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	[ ] FedEX [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: 1 of 2

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

Pace® Location Requested (City/State):
Pace Analytical Kansas
9608 Loiret Blvd., Lenexa, KS 66219

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

60484432

Scan QR Code for instructions

Company Name:	Rocksmith Geoengineering, LLC.	Contact/Report To:	Mark Haddock
Street Address:	2320 Creve Coeur Mill Road Maryland Heights, MO 63043	Phone #:	314-974-6578
		E-Mail:	mark.haddock@rocksmithgeo.com
		Cc E-Mail:	
Customer Project #:			
Project Name:	AMEREN LCPA	Invoice To:	Mark Haddock
		Invoice E-Mail:	mark.haddock@rocksmithgeo.com
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [ ] ET

County / State origin of sample(s): Missouri

Data Deliverables:
[ ] Level II [ ] Level III [ ] Level IV
[ ] EQUIS
[ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [ ] Yes [ ] No

Rush (Pre-approval required):
[ ] Same Day [ ] 1 Day [ ] 2 Day [ ] 3 Day [ ] Other _____

DW PWSID # or WW Permit # as applicable:

Date Results Requested:

Field Filtered (if applicable): [ ] Yes [ ] No
Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

Specify Container Size **

Identify Container Preservative Type***

Analysis Requested

Customer Sample ID	Matrix *	Comp / Grab	Composite Start Date	Composite Start Time	Collected or Composite End Date	Collected or Composite End Time	# Cont.	Res. Chlorine Results	Res. Chlorine Units	App III and Cat/An Metals*	App IV Metals**	UWL Metals***	COD & TOC	Cl/F/SO4/TDS/Alkalinity	Radium 226/228	Total Organic Halogens	Sample Comment
L-BMW-2D	WT	G			10/21/25	0902	6			✓	✓	✓	✓	✓	✓	✓	
L-UMW-DUP-1	WT	G			10/20/25	—	6			✓	✓	✓	✓	✓	✓	✓	
L-UMW-DUP-2	WT	G			10/21/25	—	6			✓	✓	✓	✓	✓	✓	✓	
L-UMW-FB-1	WT	G															
L-UMW-FB-2	WT	G			10/21/25	1500	6			✓	✓	✓	✓	✓	✓	✓	
L-UMW-MS-1	WT	G			10/21/25	1017	6			✓	✓	✓	✓	✓	✓	✓	Taken @ UMW-6D
L-UMW-MSD-1	WT	G			"	"	6			✓	✓	✓	✓	✓	✓	✓	"

Lab Use Only
Proj. Mgr: Jamie Church
AcctNum / Client ID:
Table #:
Profile / Template: 15857
Prelog / Bottle Ord. ID: EZ 3303637

Preservation non-conformance identified for sample.

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) 90mL, (10) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Additional Instructions from Pace®:
***App III and Cat/An Metals* - EPA 200.7: B, Ca, Fe, Mg, Mn, K, Na**
****App IV Metals - EPA 200.7 -Ba,Be,Co,Pb,Li,Mo and 200.8 Metals - Sb,As,Cd,Cr,Se,Tl +7470 Hg**
*****UWL Metals - 200.7: Al, Cu, Ni, Ag, Zn+ Hardness**

Collected By:
(Printed Name)
Signature:

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)	On Ice:
6	T-301	0.0	0.3	0.3	

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
	10/21/25 1700		10/22/25 0850	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Delivered by: [ ] In- Person [ ] Courier
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	[ ] FedEx [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: 2 of 2

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

DC#_Title: ENV-FRM-LENE-0001 v07_Sample Container Count
Effective Date: 7/12/2024

1/2

Client: Rocksmith Greens Profile/EZ # only print what you log

Site: Notes Append to 60484432

COC Line Item	Matrix	VG9H	DG9H	DG9Q	VG9U	DG9U	DG9M	DG9B	BG1U	AG1H	AG1U	AG2U	AG3S	AG4U	AG5U	JGFU	WGKU	WGDU	BP1U	BP2U	BP3U	BP1N	BP3N	BP3F	BP3S	BP3B	BP3Z	WPDU	ZPLC	Other		
1	WT												2						1			2	1									
2	↓												↓						↓			↓	↓									
3																																
4	↓												↓						↓			↓	↓									
5													↓						↓			↓	↓									
6	↓												6						3			↓	3			(MS/MSD)						
7																																
8																																
9																																
10	↓												2						1			↓	1									
11																																
12																																

Container Codes

Glass			
DG9B	40mL bisulfate clear vial	WGKU	8oz clear soil jar
DG9H	40mL HCl amber voa vial	WGFU	4oz clear soil jar
DG9M	40mL MeOH clear vial	WG2U	2oz clear soil jar
DG9Q	40mL TSP amber vial	JGFU	4oz unpreserved amber wide
DG9S	40mL H2SO4 amber vial	AG0U	100mL unores amber glass
DG9T	40mL Na Thio amber vial	AG1H	1L HCl amber glass
DG9U	40mL amber unpreserved	AG1S	1L H2SO4 amber glass
VG9H	40mL HCl clear vial	AG1T	1L Na Thiosulfate clear/amber glass
VG9T	40mL Na Thio. clear vial	AG1U	1liter unpres amber glass
VG9U	40mL unpreserved clear vial	AG2N	500mL HNO3 amber glass
BG1S	1liter H2SO4 clear glass	AG2S	500mL H2SO4 amber glass
BG1U	1liter unpres glass	AG3S	250mL H2SO4 amber glass
BG3H	250mL HCL Clear glass	AG2U	500mL unpres amber glass
BG3U	250mL Unpres Clear glass	AG3U	250mL unpres amber glass
WGDU	16oz clear soil jar	AG4U	125mL unpres amber glass
		AG5U	100mL unpres amber glass

Plastic	
BP1B	1L NAOH plastic
BP1N	1L HNO3 plastic
BP1S	1L H2SO4 plastic
BP1U	1L unpreserved plastic
BP1Z	1L NaOH, Zn Acetate
BP2B	500mL NAOH plastic
BP2N	500mL HNO3 plastic
BP2S	500mL H2SO4 plastic
BP2U	500mL unpreserved plastic
BP2Z	500mL NaOH, Zn Acetate
BP3B	250mL NaOH plastic
BP3F	250mL HNO3 plastic - field filtered
BP3N	250mL HNO3 plastic
BP3U	250mL unpreserved plastic
BP3S	250mL H2SO4 plastic
BP3Z	250mL NaOH, Zn Acetate
BP4U	125mL unpreserved plastic
BP4N	125mL HNO3 plastic
BP4S	125mL H2SO4 plastic
WPDU	16oz unpresserved plstic

Misc.	
I	Wipe/Swab
SP5T	120mL Coliform Na Thiosulfate
ZPLC	Ziploc Bag
AF	Air Filter
C	Air Cassettes
R	Terracore Kit
U	Summa Can

Matrix	
WT	Water
SL	Solid
NAL	Non-aqueous Liquid
OL	OIL
WP	Wipe
DW	Drinking Water

Work Order Number: 60484432

2/2

Client: Rocksmith Geoeng Profile/EZ #:

Site: Notes Attend to 60484432

COC Line Item	Matrix	VG9H	DG9H	DG9Q	VG9U	DG9U	DG9M	DG9B	BG1U	AG1H	AG1U	AG2U	AG3S	AG4U	AG5U	JGFU	WGKU	WGDU	BP1U	BP2U	BP3U	BP1N	BP3N	BP3F	BP3S	BP3B	BP3Z	WPDU	ZPLC	Other		
1	WT												2						1			2	1									
2	↓												↓						↓			↓	↓									
3	↓												↓						↓			↓	↓									
4																																
5	↓												↓						↓			↓	↓									
6	↓												(Only log RAD)									↓										
7	↓																					↓										
8																																
9																																
10																																
11																																
12																																

Container Codes

Glass			
DG9B	40mL bisulfate clear vial	WGKU	8oz clear soil jar
DG9H	40mL HCl amber voa vial	WGFU	4oz clear soil jar
DG9M	40mL MeOH clear vial	WG2U	2oz clear soil jar
DG9Q	40mL TSP amber vial	JGFU	4oz unpreserved amber wide
DG9S	40mL H2SO4 amber vial	AG0U	100mL unores amber glass
DG9T	40mL Na Thio amber vial	AG1H	1L HCl amber glass
DG9U	40mL amber unpreserved	AG1S	1L H2SO4 amber glass
VG9H	40mL HCl clear vial	AG1T	1L Na Thiosulfate clear/amber glass
VG9T	40mL Na Thio. clear vial	AG1U	1liter unpres amber glass
VG9U	40mL unpreserved clear vial	AG2N	500mL HNO3 amber glass
BG1S	1liter H2SO4 clear glass	AG2S	500mL H2SO4 amber glass
BG1U	1liter unpres glass	AG3S	250mL H2SO4 amber glass
BG3H	250mL HCL Clear glass	AG2U	500mL unpres amber glass
BG3U	250mL Unpres Clear glass	AG3U	250mL unpres amber glass
WGDU	16oz clear soil jar	AG4U	125mL unpres amber glass
		AG5U	100mL unpres amber glass

Plastic	
BP1B	1L NAOH plastic
BP1N	1L HNO3 plastic
BP1S	1L H2SO4 plastic
BP1U	1L unpreserved plastic
BP1Z	1L NaOH, Zn Acetate
BP2B	500mL NAOH plastic
BP2N	500mL HNO3 plastic
BP2S	500mL H2SO4 plastic
BP2U	500mL unpreserved plastic
BP2Z	500mL NaOH, Zn Acetate
BP3B	250mL NaOH plastic
BP3F	250mL HNO3 plastic - field filtered
BP3N	250mL HNO3 plastic
BP3U	250mL unpreserved plastic
BP3S	250mL H2SO4 plastic
BP3Z	250mL NaOH, Zn Acetate
BP4U	125mL unpreserved plastic
BP4N	125mL HNO3 plastic
BP4S	125mL H2SO4 plastic
WPDU	16oz unpresserved plstic

Misc.	
I	Wipe/Swab
SP5T	120mL Coliform Na Thiosulfate
ZPLC	Ziploc Bag
AF	Air Filter
C	Air Cassettes
R	Terracore Kit
U	Summa Can

Matrix	
WT	Water
SL	Solid
NAL	Non-aqueous Liquid
OL	OIL
WP	Wipe
DW	Drinking Water

Work Order Number: 60484432

Memorandum

December 17, 2025

To:	Project File Rocksmith Geoengineering, LLC	**Project Number:**	23007-25
CC:	Mark Haddock, Jeffrey Ingram		
From:	Valerie Hurt	**Email:**	Valerie.Hurt@Rocksmithgeo.com
RE:	**Data Validation Summary, Labadie Energy Center – LCPA – Data Package 60484432**		

The following is a summary of instances where quality control criteria in the functional guidelines were not met and data qualification was required:

- When a compound was analyzed outside of hold time, the sample result was qualified as an estimate (J for detects, UJ for non-detects).
- When a duplicate criterion was not met, the associated sample result was qualified as an estimate (J for detects, UJ for non-detects).
- When a compound was detected in a blank (i.e. method, field), and the blank comparison criterion was not met, associated sample results were qualified as estimates (J) or non-detects (U).

QA LEVEL II - INORGANIC DATA EVALUATION CHECKLIST

Company Name: Rocksmith Geoengineering
Project Manager: J. Ingram
Project Name: Ameren LCPA
Project Number: 23007-25
Reviewer: V. Hurt
Validation Date: 12/17/2025

Laboratory: Pace Analytical
SDG #: 60484432
Analytical Method (type and no.): EPA 200.7/200.8/7470 (Total Metals); SM 2320B (Alkalinity); SM 2540C (TDS); EPA 300.0 (Anions);
Matrix: ☐ Air ☐ Soil/Sed. ■ Water ☐ Waste ☐ EPA 903.1/904.0 (Radium 226+228)
Sample Names L-UMW-7D, L-UMW-8D,L-UMW-9D, L-UMW-FB-1, L-UMW-1D, L-UMW-2D, L-UMW-4D, L-UMW-5D, L-UMW-6D, L-BMW-1D, L-BMW-2D, L-UMW-DUP-1, L-UMW-DUP-2, L-UMW-FB-2, L-UMW-MS-1, L-UMW-MSD-1, L-UMW-3D

NOTE: Please provide calculation in Comment areas or on the back (if on the back please indicate in comment areas).

Field Information	YES	NO	NA	COMMENTS
a) Sampling dates noted?	x			10/17/2025-10/22/2025
b) Sampling team indicated?	x			JTR/JDQ/VAH
c) Sample location noted?	x			
d) Sample depth indicated (Soils)?			x	
e) Sample type indicated (grab/composite)?	x			Grab
f) Field QC noted?	x			See Notes
g) Field parameters collected (note types)?	x			pH, Spec Cond, Turb, Temp, DO, ORP
h) Field Calibration within control limits?	x			
i) Notations of unacceptable field conditions/performances from field logs or field notes?		x		
j) Does the laboratory narrative indicate deficiencies?			x	No lab narrative.

Note Deficiencies:

Chain-of-Custody (COC)	YES	NO	NA	COMMENTS
a) Was the COC properly completed?	x			
b) Was the COC signed by both field and laboratory personnel?	x			
c) Were samples received in good condition?	x			

General (reference QAPP or Method)	YES	NO	NA	COMMENTS
a) Were hold times met for sample pretreatment?	x			
b) Were hold times met for sample analysis?		x		See Notes
c) Were the correct preservatives used?	x			
d) Was the correct method used?	x			
e) Were appropriate reporting limits achieved?	x			
f) Were any sample dilutions noted?	x			See Notes
g) Were any matrix problems noted?		x		

QA LEVEL II - INORGANIC DATA EVALUATION CHECKLIST

Blanks	YES	NO	NA	COMMENTS
a) Were analytes detected in the method blank(s)?	x			See Notes
b) Were analytes detected in the field blank(s)?	x			See Notes
c) Were analytes detected in the equipment blank(s)?			x	
d) Were analytes detected in the trip blank(s)?			x	

Laboratory Control Sample (LCS)	YES	NO	NA	COMMENTS
a) Was a LCS analyzed once per SDG?	x			
b) Were the proper analytes included in the LCS?	x			
c) Was the LCS accuracy criteria met?	x			

Duplicates	YES	NO	NA	COMMENTS
a) Were field duplicates collected (note original and duplicate sample names)?	x			See Notes
b) Were field dup. precision criteria met (note RPD)?		x		See Notes
c) Were lab duplicates analyzed (note original and duplicate samples)?	x			
d) Were lab dup. precision criteria met (note RPD)?		x		See Notes

Blind Standards	YES	NO	NA	COMMENTS
a) Was a blind standard used (indicate name, analytes included and concentrations)?			x	
b) Was the %D within control limits?			x	

Matrix Spike/Matrix Spike Duplicate (MS/MSD)	YES	NO	NA	COMMENTS
a) Was MS accuracy criteria met?		x		See Notes
Recovery could not be calculated since sample contained high concentration of analyte?			x	
b) Was MSD accuracy criteria met?		x		See Notes
Recovery could not be calculated since sample contained high concentration of analyte?			x	
c) Were MS/MSD precision criteria met?		x		See Notes

Comments/Notes:

General:

Chloride and sulfate diluted in some samples, no qualification necessary.

Alkalinity analyzed outside for sample -2013, result qualified as an estimate.

QA LEVEL IV - INORGANIC DATA EVALUATION CHECKLIST

Comments/Notes:

Field Blanks:

L-UMW-FB-1 @ L-UMW-7D: No detections

L-UMW-FB-2 @ L-UMW-5D: Calcium (54.1J), Molybdenum (1.2J), Sodium (51.4J), and Chromium (0.92J).

Results for chromium is non-detect, no qualification necessary. Other results > RL and 10x blank, no qualification necessary.

Field Duplicates:

L-UMW-DUP-1 @ L-UMW-1D: Chromium detected in parent sample and non-detect in duplicate, results qualified as estimates.

L-UMW-DUP-2 @ L-UMW-4D: Chromium detected in duplicate sample and non-detect in parent, results qualified as estimates.

MS/MSD:

3774090: MS recovery low for calcium, associated with an unrelated sample. No qualification necessary.

3775526/3775527: MS/MSD recovery low for calcium and sodium, RPD okay. Associated with sample -009, results qualified as estimates.

3776417/3776418: MS/MSD recovery high for potassium and sodium, RPD okay. Associated with unrelated sample, no qualification necessary.

3776419: MS recovery low for calcium. Associated with unrelated sample, no qualification necessary.

R4300214-4/R4300214-5: MS/MSD recovery low, RPD high. Associated with unrelated sample, no qualification necessary.

L-UMW-MSD-1 @ L-UMW-6D: MS percent recovery outside control for Radium-226, result is non-detect. No qualification necessary.

Method Blanks:

3775524: Molybdenum (0.83J), associated with samples -005 through -014. Samples -005, -010,-011, -012, and -014 < RL, results reported at reporting limit and qualified as non-detect. Samples -006 through -009 and -0013 > 10x blank result, no qualification necessary.

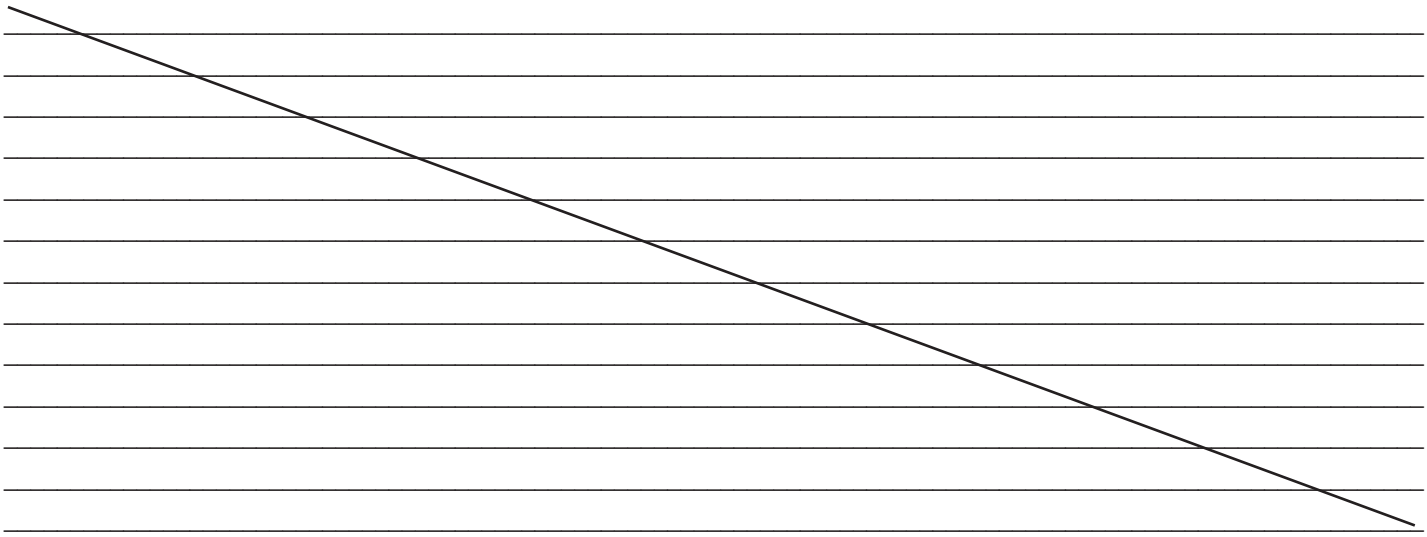
3776415: Barium (0.90J), associated with sample -017. Result > 10x blank result, no qualification necessary.

Lab Duplicates:

3779188: lab duplicate RPD exceeds control limit for alkalinity, associated with unrelated sample, no qualification necessary.

3781520: lab duplicate RPD exceeds control limit for alkalinity, associated with unrelated sample, no qualification necessary.

3781521: lab duplicate RPD exceeds control limit for alkalinity, associated with sample -006, result qualified as estimate.



QA LEVEL IV - INORGANIC DATA EVALUATION CHECKLIST

Data Qualification:

Sample Name	Constituent(s)	Result	Qualifier	Reason
L-UMW-DUP-2	Alkalinity	69	J	Analyzed outside of hole time
L-UMW-FB-2	Molybdenum	20	U	Detected in method blank, result < RL
L-UMW-DUP-1	"	20	U	"
L-BMW-2D	"	20	U	"
L-UMW-6D	Calcium	128000	J-	MS/MSD recovery low, RPD okay
"	Sodium	189000	J-	"
L-UMW-1D	Molybdenum	20	U	Detected in method blank, result < RL
L-BMW-1D	"	20	U	"
L-UMW-1D	Chromium	0.5	J	Detected in parent sample, non-detect in field duplicate
L-UMW-DUP-1	"	0.34	UJ	"
L-UMW-4D	"	0.34	UJ	Detected in field duplicate, non-detect in parent sample
L-UMW-DUP-2	"	0.69	J	"
L-UMW-6D	Alkalinity	64.4	J	Laboratory duplicate RPD exceeds control limit

Signature: _____ Date: 12/17/2025

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

December 16, 2025

Mark Haddock
Rocksmith Geoengineering, LLC.
2320 Creve Coeur Mill Road
Maryland Heights, MO 63043

RE: Project: AMEREN LCPA-CA
Pace Project No.: 60484431

Dear Mark Haddock:

Enclosed are the analytical results for sample(s) received by the laboratory between October 18, 2025 and October 23, 2025. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Kansas City
- Pace Analytical Services - Greensburg
- Pace Analytical Services - Salina

REV-1: Report revised to remove parameters not required under the CCR Rule.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Jamie Church
jamie.church@pacelabs.com
314-838-7223
Project Manager

Enclosures

cc: Jeffrey Ingram, Rocksmith Geoengineering, LLC.
Lisa Meyer, Ameren
Grant Morey, Rocksmith Geoengineering, LLC.
Austin Nieman, Ameren

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

CERTIFICATIONS

Project: AMEREN LCPA-CA
Pace Project No.: 60484431

Pace Analytical Services Pennsylvania
1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
ANABISO/IEC 17025:2017 Rad Cert#: L24170
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 2950
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA010
Louisiana DEQ/TNI Certification #: 04086
Maine Certification #: 2023021
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991
Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572023-03
New Hampshire/TNI Certification #: 297622
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-015
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: TN02867
Texas/TNI Certification #: T104704188-22-18
Utah/TNI Certification #: PA014572223-14
USDA Soil Permit #: 525-23-67-77263
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad

Pace Analytical Services Kansas
9608 Loiret Boulevard, Lenexa, KS 66219
EPA Lab Code: KS00021
Arkansas Certification #: 88-00679
Illinois Certification #: 200030
Colorado Division of Oil and Public Safety
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Oklahoma Certification #: 9205
Texas Certification #: T104704407
Utah Certification #: KS0002125-15
UDSA_CA : #KS-SC-DOM-25-01

Pace Analytical Services Salina
528 N 9th Street, Salina, KS 67401
EPA Lab Code: KS00013
Kansas/NELAP Certification: # E-10146
Oklahoma Certification: #2405
Texas Certification: T104704246-23-15

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

SAMPLE SUMMARY

Project: AMEREN LCPA-CA
Pace Project No.: 60484431

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60484431004	**L-MW-33(D)**	Water	10/17/25 11:35	10/18/25 08:50
60484431005	**L-MW-34(D)**	Water	10/17/25 10:30	10/18/25 08:50
60484431006	**L-TP-3M**	Water	10/17/25 12:24	10/18/25 08:50
60484431007	**L-TP-3D**	Water	10/17/25 13:25	10/18/25 08:50
60484431008	**L-TP-4D**	Water	10/17/25 09:26	10/18/25 08:50
60484431009	**L-CA-FB-1**	Water	10/17/25 10:47	10/18/25 08:50
60484431010	**L-MS-1**	Water	10/17/25 12:24	10/18/25 08:50
60484431011	**L-MSD-1**	Water	10/17/25 12:24	10/18/25 08:50
60484431012	**L-AMW-8**	Water	10/21/25 14:30	10/22/25 08:50
60484431016	**L-MW-24**	Water	10/21/25 12:49	10/22/25 08:50
60484431018	**L-MW-35(D)**	Water	10/21/25 13:27	10/22/25 08:50
60484431019	**L-S-1**	Water	10/21/25 14:16	10/22/25 08:50
60484431020	**L-TP-1D**	Water	10/20/25 13:50	10/22/25 08:50
60484431021	**L-TP-2M**	Water	10/20/25 11:27	10/22/25 08:50
60484431022	**L-TP-2D**	Water	10/20/25 09:57	10/22/25 08:50
60484431023	**L-AM-1S**	Water	10/20/25 13:09	10/22/25 08:50
60484431024	**L-AM-1D**	Water	10/20/25 11:13	10/22/25 08:50
60484431025	**L-CA-DUP-1**	Water	10/20/25 00:00	10/22/25 08:50
60484431026	**L-CA-DUP-2**	Water	10/20/25 00:00	10/22/25 08:50
60484431027	**L-CA-DUP-3**	Water	10/20/25 00:00	10/22/25 08:50
60484431028	**L-CA-FB-2**	Water	10/20/25 13:00	10/22/25 08:50
60484431029	**L-CA-FB-3**	Water	10/21/25 14:10	10/22/25 08:50
60484431030	**L-MS-2**	Water	10/20/25 11:27	10/22/25 08:50
60484431031	**L-MSD-2**	Water	10/20/25 11:27	10/22/25 08:50
60484431017	**L-MW-26**	Water	10/21/25 12:02	10/22/25 08:50
60484431013	**L-BMW-1S**	Water	10/21/25 11:06	10/22/25 08:50
60484431014	**L-BMW-2S**	Water	10/21/25 09:05	10/22/25 08:50
60484431001	**L-LMW-1S**	Water	10/17/25 11:45	10/18/25 08:50
60484431002	**L-LMW-7S**	Water	10/17/25 12:20	10/18/25 08:50
60484431003	**L-LMW-8S**	Water	10/17/25 12:41	10/18/25 08:50
60484431015	**L-LMW-2S**	Water	10/20/25 15:10	10/22/25 08:50
60484431032	**L-LMW-4S**	Water	10/22/25 09:48	10/23/25 08:00

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

SAMPLE ANALYTE COUNT

Project: AMEREN LCPA-CA
Pace Project No.: 60484431

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60484431004	**L-MW-33(D)**	EPA 200.7	ARMN	13	PASI-K
		EPA 200.8	JGP	6	PASI-K
		EPA 7470	MNG	1	PASI-K
		EPA 903.1	TMY	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		EPA 300.0	MLL	3	PASI-SA
		SM 2320B	AJWM	1	PASI-K
		SM 2540C	DLJ	1	PASI-K
60484431005	**L-MW-34(D)**	EPA 200.7	ARMN	13	PASI-K
		EPA 200.8	JGP	6	PASI-K
		EPA 7470	MNG	1	PASI-K
		EPA 903.1	TMY	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		EPA 300.0	MLL	3	PASI-SA
		SM 2320B	AJWM	1	PASI-K
		SM 2540C	DLJ	1	PASI-K
60484431006	**L-TP-3M**	EPA 200.7	ARMN	13	PASI-K
		EPA 200.8	JGP	6	PASI-K
		EPA 7470	MNG	1	PASI-K
		EPA 903.1	TMY	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		EPA 300.0	MLL	3	PASI-SA
		SM 2320B	AJWM	1	PASI-K
		SM 2540C	DLJ	1	PASI-K
60484431007	**L-TP-3D**	EPA 200.7	ARMN	13	PASI-K
		EPA 200.8	JGP	6	PASI-K
		EPA 7470	MNG	1	PASI-K
		EPA 903.1	TMY	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		EPA 300.0	MLL	3	PASI-SA
		SM 2320B	AJWM	1	PASI-K
		SM 2540C	DLJ	1	PASI-K
60484431008	**L-TP-4D**	EPA 200.7	ARMN	13	PASI-K
		EPA 200.8	JGP	6	PASI-K
		EPA 7470	MNG	1	PASI-K
		EPA 903.1	TMY	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

SAMPLE ANALYTE COUNT

Project: AMEREN LCPA-CA
Pace Project No.: 60484431

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 300.0	MLL	3	PASI-SA
		SM 2320B	AJWM	1	PASI-K
		SM 2540C	DLJ	1	PASI-K
60484431009	**L-CA-FB-1**	EPA 200.7	ARMN	13	PASI-K
		EPA 200.8	JGP	6	PASI-K
		EPA 7470	MNG	1	PASI-K
		EPA 903.1	TMY	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		EPA 300.0	MLL	3	PASI-SA
		SM 2320B	AJWM	1	PASI-K
		SM 2540C	DLJ	1	PASI-K
60484431010	**L-MS-1**	EPA 903.1	TMY	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
60484431011	**L-MSD-1**	EPA 903.1	TMY	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
60484431012	**L-AMW-8**	EPA 200.7	ARMN	13	PASI-K
		EPA 200.8	JGP	6	PASI-K
		EPA 7470	MNG	1	PASI-K
		EPA 903.1	TMY	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		EPA 300.0	MLL	3	PASI-SA
		SM 2320B	EMB	1	PASI-K
		SM 2540C	DLJ	1	PASI-K
60484431016	**L-MW-24**	EPA 200.7	ARMN	13	PASI-K
		EPA 200.8	JGP	6	PASI-K
		EPA 7470	MNG	1	PASI-K
		EPA 903.1	TMY	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		EPA 300.0	MLL	3	PASI-SA
		SM 2320B	EMB	1	PASI-K
		SM 2540C	DLJ	1	PASI-K
60484431018	**L-MW-35(D)**	EPA 200.7	ARMN	13	PASI-K
		EPA 200.8	JGP	6	PASI-K
		EPA 7470	MNG	1	PASI-K
		EPA 903.1	TMY	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		EPA 300.0	MLL	3	PASI-SA

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

SAMPLE ANALYTE COUNT

Project: AMEREN LCPA-CA
Pace Project No.: 60484431

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 2320B	EMB	1	PASI-K
		SM 2540C	DLJ	1	PASI-K
60484431019	**L-S-1**	EPA 200.7	ARMN	13	PASI-K
		EPA 200.8	JGP	6	PASI-K
		EPA 7470	MNG	1	PASI-K
		EPA 903.1	TMY	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		EPA 300.0	MLL	3	PASI-SA
		SM 2320B	EMB	1	PASI-K
		SM 2540C	DLJ	1	PASI-K
60484431020	**L-TP-1D**	EPA 200.7	ARMN	13	PASI-K
		EPA 200.8	JGP	6	PASI-K
		EPA 7470	MNG	1	PASI-K
		EPA 903.1	TMY	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		EPA 300.0	MLL	3	PASI-SA
		SM 2320B	EMB	1	PASI-K
		SM 2540C	DLJ	1	PASI-K
60484431021	**L-TP-2M**	EPA 200.7	ARMN	13	PASI-K
		EPA 200.8	JGP	6	PASI-K
		EPA 7470	MNG	1	PASI-K
		EPA 903.1	DSO	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		EPA 300.0	MLL	3	PASI-SA
		SM 2320B	EMB	1	PASI-K
		SM 2540C	DLJ	1	PASI-K
60484431022	**L-TP-2D**	EPA 200.7	ARMN	13	PASI-K
		EPA 200.8	JGP	6	PASI-K
		EPA 7470	MNG	1	PASI-K
		EPA 903.1	DSO	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		EPA 300.0	MLL	3	PASI-SA
		SM 2320B	EMB	1	PASI-K
		SM 2540C	DLJ	1	PASI-K
60484431023	**L-AM-1S**	EPA 200.7	ARMN	13	PASI-K
		EPA 200.8	JGP	6	PASI-K
		EPA 7470	MNG	1	PASI-K

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

SAMPLE ANALYTE COUNT

Project: AMEREN LCPA-CA
Pace Project No.: 60484431

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 903.1	DSO	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		EPA 300.0	MLL	3	PASI-SA
		SM 2320B	EMB	1	PASI-K
		SM 2540C	DLJ	1	PASI-K
60484431024	**L-AM-1D**	EPA 200.7	ARMN	13	PASI-K
		EPA 200.8	JGP	6	PASI-K
		EPA 7470	MNG	1	PASI-K
		EPA 903.1	DSO	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		EPA 300.0	MLL	3	PASI-SA
		SM 2320B	EMB	1	PASI-K
		SM 2540C	DLJ	1	PASI-K
60484431025	**L-CA-DUP-1**	EPA 200.7	ARMN	13	PASI-K
		EPA 200.8	JGP	6	PASI-K
		EPA 7470	MNG	1	PASI-K
		EPA 903.1	DSO	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		EPA 300.0	MLL	3	PASI-SA
		SM 2320B	EMB	1	PASI-K
		SM 2540C	DLJ	1	PASI-K
60484431026	**L-CA-DUP-2**	EPA 200.7	ARMN	13	PASI-K
		EPA 200.8	JGP	6	PASI-K
		EPA 7470	MNG	1	PASI-K
		EPA 903.1	DSO	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		EPA 300.0	MLL	3	PASI-SA
		SM 2320B	EMB	1	PASI-K
		SM 2540C	DLJ	1	PASI-K
60484431027	**L-CA-DUP-3**	EPA 200.7	ARMN	13	PASI-K
		EPA 200.8	JGP	6	PASI-K
		EPA 7470	MNG	1	PASI-K
		EPA 903.1	DSO	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		EPA 300.0	MLL	3	PASI-SA
		SM 2320B	EMB	1	PASI-K
		SM 2540C	DLJ	1	PASI-K

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

SAMPLE ANALYTE COUNT

Project: AMEREN LCPA-CA
Pace Project No.: 60484431

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60484431028	**L-CA-FB-2**	EPA 200.7	ARMN	13	PASI-K
		EPA 200.8	JGP	6	PASI-K
		EPA 7470	MNG	1	PASI-K
		EPA 903.1	DSO	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		EPA 300.0	MLL	3	PASI-SA
		SM 2320B	EMB	1	PASI-K
		SM 2540C	DLJ	1	PASI-K
60484431029	**L-CA-FB-3**	EPA 200.7	ARMN	13	PASI-K
		EPA 200.8	JGP	6	PASI-K
		EPA 7470	MNG	1	PASI-K
		EPA 903.1	DSO	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		EPA 300.0	MLL	3	PASI-SA
		SM 2320B	EMB	1	PASI-K
		SM 2540C	DLJ	1	PASI-K
60484431030	**L-MS-2**	EPA 903.1	DSO	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
60484431031	**L-MSD-2**	EPA 903.1	DSO	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
60484431017	**L-MW-26**	EPA 200.7	ARMN	13	PASI-K
		EPA 200.8	JGP	6	PASI-K
		EPA 7470	MNG	1	PASI-K
		EPA 903.1	TMY	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		EPA 300.0	MLL	3	PASI-SA
		SM 2320B	EMB	1	PASI-K
		SM 2540C	DLJ	1	PASI-K
60484431013	**L-BMW-1S**	EPA 200.7	ARMN	13	PASI-K
		EPA 200.8	JGP	6	PASI-K
		EPA 7470	MNG	1	PASI-K
		EPA 903.1	TMY	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		EPA 300.0	MLL	3	PASI-SA
		SM 2320B	EMB	1	PASI-K
		SM 2540C	DLJ	1	PASI-K
60484431014	**L-BMW-2S**	EPA 200.7	ARMN	13	PASI-K

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

SAMPLE ANALYTE COUNT

Project: AMEREN LCPA-CA
Pace Project No.: 60484431

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 200.8	JGP	6	PASI-K
		EPA 7470	MNG	1	PASI-K
		EPA 903.1	TMY	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		EPA 300.0	MLL	3	PASI-SA
		SM 2320B	EMB	1	PASI-K
		SM 2540C	DLJ	1	PASI-K
60484431001	**L-LMW-1S**	EPA 200.7	ARMN	13	PASI-K
		EPA 200.8	JGP	6	PASI-K
		EPA 7470	MNG	1	PASI-K
		EPA 903.1	TMY	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		EPA 300.0	MLL	3	PASI-SA
		SM 2320B	AJWM	1	PASI-K
		SM 2540C	DLJ	1	PASI-K
60484431002	**L-LMW-7S**	EPA 200.7	ARMN	13	PASI-K
		EPA 200.8	JGP	6	PASI-K
		EPA 7470	MNG	1	PASI-K
		EPA 903.1	TMY	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		EPA 300.0	MLL	3	PASI-SA
		SM 2320B	AJWM	1	PASI-K
		SM 2540C	DLJ	1	PASI-K
60484431003	**L-LMW-8S**	EPA 200.7	ARMN	13	PASI-K
		EPA 200.8	JGP	6	PASI-K
		EPA 7470	MNG	1	PASI-K
		EPA 903.1	TMY	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		EPA 300.0	MLL	3	PASI-SA
		SM 2320B	AJWM	1	PASI-K
		SM 2540C	DLJ	1	PASI-K
60484431015	**L-LMW-2S**	EPA 200.7	ARMN	13	PASI-K
		EPA 200.8	JGP	6	PASI-K
		EPA 7470	MNG	1	PASI-K
		EPA 903.1	TMY	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		EPA 300.0	MLL	3	PASI-SA

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

SAMPLE ANALYTE COUNT

Project: AMEREN LCPA-CA
Pace Project No.: 60484431

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 2320B	EMB	1	PASI-K
		SM 2540C	DLJ	1	PASI-K
60484431032	**L-LMW-4S**	EPA 200.7	ARMN, CJM	13	PASI-K
		EPA 200.8	JGP	6	PASI-K
		EPA 7470	MNG	1	PASI-K
		EPA 903.1	DSO	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		EPA 300.0	MLL	3	PASI-SA
		SM 2320B	EMB	1	PASI-K
		SM 2540C	DLJ	1	PASI-K

PASI-K = Pace Analytical Services - Kansas City
PASI-PA = Pace Analytical Services - Greensburg
PASI-SA = Pace Analytical Services - Salina

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA-CA
Pace Project No.: 60484431

Sample: L-MW-33(D) **Lab ID: 60484431004** Collected: 10/17/25 11:35 Received: 10/18/25 08:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City								
Barium	**103**	ug/L	5.0	0.75	1	10/20/25 13:33	10/29/25 16:03	7440-39-3	
Beryllium	**<0.29**	ug/L	1.0	0.29	1	10/20/25 13:33	10/29/25 16:03	7440-41-7	
Boron	**8270**	ug/L	100	33.2	1	10/20/25 13:33	10/29/25 16:03	7440-42-8	
Calcium	**153000**	ug/L	200	45.3	1	10/20/25 13:33	10/29/25 16:03	7440-70-2	
Cobalt	**<0.97**	ug/L	5.0	0.97	1	10/20/25 13:33	10/29/25 16:03	7440-48-4	
Iron	**7330**	ug/L	50.0	15.4	1	10/20/25 13:33	10/29/25 16:03	7439-89-6	
Lead	**<3.3**	ug/L	10.0	3.3	1	10/20/25 13:33	10/29/25 16:03	7439-92-1	
Lithium	**37.9**	ug/L	10.0	1.8	1	10/20/25 13:33	10/29/25 16:03	7439-93-2	
Magnesium	**29800**	ug/L	50.0	21.1	1	10/20/25 13:33	10/29/25 16:03	7439-95-4	
Manganese	**394**	ug/L	5.0	0.42	1	10/20/25 13:33	10/29/25 16:03	7439-96-5	
Molybdenum	**640**	ug/L	20.0	0.78	1	10/20/25 13:33	10/29/25 16:03	7439-98-7	
Potassium	**8210**	ug/L	500	45.2	1	10/20/25 13:33	10/29/25 16:03	7440-09-7	
Sodium	**107000**	ug/L	500	31.8	1	10/20/25 13:33	10/29/25 16:03	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Antimony	**<0.12**	ug/L	1.0	0.12	1	10/20/25 13:33	10/21/25 13:19	7440-36-0	
Arsenic	**3.4**	ug/L	1.0	0.13	1	10/20/25 13:33	10/21/25 13:19	7440-38-2	
Cadmium	**0.21J**	ug/L	0.50	0.062	1	10/20/25 13:33	10/21/25 13:19	7440-43-9	
Chromium	**<0.34**	ug/L	1.0	0.34	1	10/20/25 13:33	10/21/25 13:19	7440-47-3	
Selenium	**<0.19**	ug/L	1.0	0.19	1	10/20/25 13:33	10/21/25 13:19	7782-49-2	
Thallium	**<0.11**	ug/L	1.0	0.11	1	10/20/25 13:33	10/21/25 13:19	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Kansas City								
Mercury	**<0.13**	ug/L	0.20	0.13	1	11/07/25 14:00	11/10/25 09:46	7439-97-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Salina								
Chloride	**19.6**	mg/L	2.0	0.36	2		11/01/25 18:02	16887-00-6	
Fluoride	**0.24**	mg/L	0.10	0.040	1		11/01/25 11:42	16984-48-8	
Sulfate	**652**	mg/L	100	9.6	100		11/01/25 18:14	14808-79-8	
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Kansas City								
Alkalinity, Total as CaCO3	**92.0**	mg/L	20.0	10.5	1		10/31/25 16:52		
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City								
Total Dissolved Solids	**1050**	mg/L	13.3	13.3	1		10/23/25 11:00		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA-CA
Pace Project No.: 60484431

Sample: L-MW-34(D) **Lab ID: 60484431005** Collected: 10/17/25 10:30 Received: 10/18/25 08:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City								
Barium	**105**	ug/L	5.0	0.75	1	10/20/25 13:33	10/29/25 16:11	7440-39-3	
Beryllium	**<0.29**	ug/L	1.0	0.29	1	10/20/25 13:33	10/29/25 16:11	7440-41-7	
Boron	**8870**	ug/L	100	33.2	1	10/20/25 13:33	10/29/25 16:11	7440-42-8	
Calcium	**115000**	ug/L	200	45.3	1	10/20/25 13:33	10/29/25 16:11	7440-70-2	M1,P6
Cobalt	**<0.97**	ug/L	5.0	0.97	1	10/20/25 13:33	10/29/25 16:11	7440-48-4	
Iron	**7170**	ug/L	50.0	15.4	1	10/20/25 13:33	10/29/25 16:11	7439-89-6	
Lead	**<3.3**	ug/L	10.0	3.3	1	10/20/25 13:33	10/29/25 16:11	7439-92-1	
Lithium	**34.9**	ug/L	10.0	1.8	1	10/20/25 13:33	10/29/25 16:11	7439-93-2	
Magnesium	**27500**	ug/L	50.0	21.1	1	10/20/25 13:33	10/29/25 16:11	7439-95-4	
Manganese	**306**	ug/L	5.0	0.42	1	10/20/25 13:33	10/29/25 16:11	7439-96-5	
Molybdenum	**518**	ug/L	20.0	0.78	1	10/20/25 13:33	10/29/25 16:11	7439-98-7	
Potassium	**6900**	ug/L	500	45.2	1	10/20/25 13:33	10/29/25 16:11	7440-09-7	
Sodium	**64600**	ug/L	500	31.8	1	10/20/25 13:33	10/29/25 16:11	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Antimony	**<0.12**	ug/L	1.0	0.12	1	10/20/25 13:33	10/21/25 13:23	7440-36-0	
Arsenic	**3.7**	ug/L	1.0	0.13	1	10/20/25 13:33	10/21/25 13:23	7440-38-2	
Cadmium	**0.17J**	ug/L	0.50	0.062	1	10/20/25 13:33	10/21/25 13:23	7440-43-9	
Chromium	**<0.34**	ug/L	1.0	0.34	1	10/20/25 13:33	10/21/25 13:23	7440-47-3	
Selenium	**<0.19**	ug/L	1.0	0.19	1	10/20/25 13:33	10/21/25 13:23	7782-49-2	
Thallium	**<0.11**	ug/L	1.0	0.11	1	10/20/25 13:33	10/21/25 13:23	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Kansas City								
Mercury	**<0.13**	ug/L	0.20	0.13	1	11/07/25 14:00	11/10/25 09:49	7439-97-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Salina								
Chloride	**15.7**	mg/L	1.0	0.18	1		11/01/25 11:55	16887-00-6	
Fluoride	**0.21**	mg/L	0.10	0.040	1		11/01/25 11:55	16984-48-8	
Sulfate	**216**	mg/L	20.0	1.9	20		11/01/25 18:26	14808-79-8	
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Kansas City								
Alkalinity, Total as CaCO3	**320**	mg/L	20.0	10.5	1		10/30/25 16:54		
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City								
Total Dissolved Solids	**675**	mg/L	10.0	10.0	1		10/23/25 11:00		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA-CA
Pace Project No.: 60484431

Sample: L-TP-3M **Lab ID: 60484431006** Collected: 10/17/25 12:24 Received: 10/18/25 08:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City								
Barium	**234**	ug/L	5.0	0.75	1	10/20/25 13:33	10/29/25 15:52	7440-39-3	
Beryllium	**0.41J**	ug/L	1.0	0.29	1	10/20/25 13:33	10/29/25 15:52	7440-41-7	
Boron	**5060**	ug/L	100	33.2	1	10/20/25 13:33	10/29/25 15:52	7440-42-8	
Calcium	**101000**	ug/L	200	45.3	1	10/20/25 13:33	10/29/25 15:52	7440-70-2	
Cobalt	**<0.97**	ug/L	5.0	0.97	1	10/20/25 13:33	10/29/25 15:52	7440-48-4	
Iron	**7470**	ug/L	50.0	15.4	1	10/20/25 13:33	10/29/25 15:52	7439-89-6	
Lead	**<3.3**	ug/L	10.0	3.3	1	10/20/25 13:33	10/29/25 15:52	7439-92-1	
Lithium	**31.1**	ug/L	10.0	1.8	1	10/20/25 13:33	10/29/25 15:52	7439-93-2	
Magnesium	**21300**	ug/L	50.0	21.1	1	10/20/25 13:33	10/29/25 15:52	7439-95-4	
Manganese	**1130**	ug/L	5.0	0.42	1	10/20/25 13:33	10/29/25 15:52	7439-96-5	
Molybdenum	**234**	ug/L	20.0	0.78	1	10/20/25 13:33	10/29/25 15:52	7439-98-7	
Potassium	**5360**	ug/L	500	45.2	1	10/20/25 13:33	10/29/25 15:52	7440-09-7	
Sodium	**62700**	ug/L	500	31.8	1	10/20/25 13:33	10/29/25 15:52	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Antimony	**<0.12**	ug/L	1.0	0.12	1	10/20/25 13:33	10/21/25 12:50	7440-36-0	
Arsenic	**0.38J**	ug/L	1.0	0.13	1	10/20/25 13:33	10/21/25 12:50	7440-38-2	
Cadmium	**0.078J**	ug/L	0.50	0.062	1	10/20/25 13:33	10/21/25 12:50	7440-43-9	
Chromium	**<0.34**	ug/L	1.0	0.34	1	10/20/25 13:33	10/21/25 12:50	7440-47-3	
Selenium	**<0.19**	ug/L	1.0	0.19	1	10/20/25 13:33	10/21/25 12:50	7782-49-2	
Thallium	**<0.11**	ug/L	1.0	0.11	1	10/20/25 13:33	10/21/25 12:50	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Kansas City								
Mercury	**<0.13**	ug/L	0.20	0.13	1	11/07/25 14:00	11/10/25 09:51	7439-97-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Salina								
Chloride	**21.0**	mg/L	2.0	0.36	2		11/01/25 18:39	16887-00-6	
Fluoride	**0.23**	mg/L	0.10	0.040	1		11/01/25 12:07	16984-48-8	
Sulfate	**178**	mg/L	20.0	1.9	20		11/01/25 19:40	14808-79-8	
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Kansas City								
Alkalinity, Total as CaCO3	**276**	mg/L	20.0	10.5	1		10/30/25 16:54		D6
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City								
Total Dissolved Solids	**607**	mg/L	10.0	10.0	1		10/23/25 11:00		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA-CA
Pace Project No.: 60484431

Sample: L-TP-3D **Lab ID: 60484431007** Collected: 10/17/25 13:25 Received: 10/18/25 08:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City								
Barium	**81.9**	ug/L	5.0	0.75	1	10/20/25 13:33	10/29/25 16:14	7440-39-3	
Beryllium	**<0.29**	ug/L	1.0	0.29	1	10/20/25 13:33	10/29/25 16:14	7440-41-7	
Boron	**9110**	ug/L	100	33.2	1	10/20/25 13:33	10/29/25 16:14	7440-42-8	
Calcium	**102000**	ug/L	200	45.3	1	10/20/25 13:33	10/29/25 16:14	7440-70-2	
Cobalt	**<0.97**	ug/L	5.0	0.97	1	10/20/25 13:33	10/29/25 16:14	7440-48-4	
Iron	**4760**	ug/L	50.0	15.4	1	10/20/25 13:33	10/29/25 16:14	7439-89-6	
Lead	**<3.3**	ug/L	10.0	3.3	1	10/20/25 13:33	10/29/25 16:14	7439-92-1	
Lithium	**31.2**	ug/L	10.0	1.8	1	10/20/25 13:33	10/29/25 16:14	7439-93-2	
Magnesium	**21900**	ug/L	50.0	21.1	1	10/20/25 13:33	10/29/25 16:14	7439-95-4	
Manganese	**186**	ug/L	5.0	0.42	1	10/20/25 13:33	10/29/25 16:14	7439-96-5	
Molybdenum	**446**	ug/L	20.0	0.78	1	10/20/25 13:33	10/29/25 16:14	7439-98-7	
Potassium	**6890**	ug/L	500	45.2	1	10/20/25 13:33	10/29/25 16:14	7440-09-7	
Sodium	**116000**	ug/L	500	31.8	1	10/20/25 13:33	10/29/25 16:14	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Antimony	**<0.12**	ug/L	1.0	0.12	1	10/20/25 13:33	10/21/25 13:26	7440-36-0	
Arsenic	**6.7**	ug/L	1.0	0.13	1	10/20/25 13:33	10/21/25 13:26	7440-38-2	
Cadmium	**0.14J**	ug/L	0.50	0.062	1	10/20/25 13:33	10/21/25 13:26	7440-43-9	
Chromium	**0.50J**	ug/L	1.0	0.34	1	10/20/25 13:33	10/21/25 13:26	7440-47-3	
Selenium	**<0.19**	ug/L	1.0	0.19	1	10/20/25 13:33	10/21/25 13:26	7782-49-2	
Thallium	**<0.11**	ug/L	1.0	0.11	1	10/20/25 13:33	10/21/25 13:26	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Kansas City								
Mercury	**<0.13**	ug/L	0.20	0.13	1	11/07/25 14:00	11/10/25 10:02	7439-97-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Salina								
Chloride	**22.8**	mg/L	2.0	0.36	2		11/01/25 20:17	16887-00-6	
Fluoride	**0.29**	mg/L	0.10	0.040	1		11/01/25 13:21	16984-48-8	
Sulfate	**460**	mg/L	50.0	4.8	50		11/01/25 20:30	14808-79-8	
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Kansas City								
Alkalinity, Total as CaCO3	**104**	mg/L	20.0	10.5	1		10/31/25 16:52		
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City								
Total Dissolved Solids	**839**	mg/L	13.3	13.3	1		10/23/25 11:01		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA-CA
Pace Project No.: 60484431

Sample: L-TP-4D **Lab ID: 60484431008** Collected: 10/17/25 09:26 Received: 10/18/25 08:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City								
Barium	**379**	ug/L	5.0	0.75	1	10/20/25 13:33	10/29/25 16:16	7440-39-3	
Beryllium	**<0.29**	ug/L	1.0	0.29	1	10/20/25 13:33	10/29/25 16:16	7440-41-7	
Boron	**7400**	ug/L	100	33.2	1	10/20/25 13:33	10/29/25 16:16	7440-42-8	
Calcium	**120000**	ug/L	200	45.3	1	10/20/25 13:33	10/29/25 16:16	7440-70-2	
Cobalt	**<0.97**	ug/L	5.0	0.97	1	10/20/25 13:33	10/29/25 16:16	7440-48-4	
Iron	**5510**	ug/L	50.0	15.4	1	10/20/25 13:33	10/29/25 16:16	7439-89-6	
Lead	**<3.3**	ug/L	10.0	3.3	1	10/20/25 13:33	10/29/25 16:16	7439-92-1	
Lithium	**24.5**	ug/L	10.0	1.8	1	10/20/25 13:33	10/29/25 16:16	7439-93-2	
Magnesium	**31100**	ug/L	50.0	21.1	1	10/20/25 13:33	10/29/25 16:16	7439-95-4	
Manganese	**337**	ug/L	5.0	0.42	1	10/20/25 13:33	10/29/25 16:16	7439-96-5	
Molybdenum	**6.2J**	ug/L	20.0	0.78	1	10/20/25 13:33	10/29/25 16:16	7439-98-7	
Potassium	**4830**	ug/L	500	45.2	1	10/20/25 13:33	10/29/25 16:16	7440-09-7	
Sodium	**31700**	ug/L	500	31.8	1	10/20/25 13:33	10/29/25 16:16	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Antimony	**<0.12**	ug/L	1.0	0.12	1	10/20/25 13:33	10/21/25 13:34	7440-36-0	
Arsenic	**7.8**	ug/L	1.0	0.13	1	10/20/25 13:33	10/21/25 13:34	7440-38-2	
Cadmium	**<0.062**	ug/L	0.50	0.062	1	10/20/25 13:33	10/21/25 13:34	7440-43-9	
Chromium	**<0.34**	ug/L	1.0	0.34	1	10/20/25 13:33	10/21/25 13:34	7440-47-3	
Selenium	**<0.19**	ug/L	1.0	0.19	1	10/20/25 13:33	10/21/25 13:34	7782-49-2	
Thallium	**<0.11**	ug/L	1.0	0.11	1	10/20/25 13:33	10/21/25 13:34	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Kansas City								
Mercury	**<0.13**	ug/L	0.20	0.13	1	11/07/25 14:00	11/10/25 10:05	7439-97-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Salina								
Chloride	**16.3**	mg/L	1.0	0.18	1		11/01/25 13:09	16887-00-6	
Fluoride	**0.18**	mg/L	0.10	0.040	1		11/01/25 13:09	16984-48-8	
Sulfate	**198**	mg/L	20.0	1.9	20		11/01/25 20:42	14808-79-8	
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Kansas City								
Alkalinity, Total as CaCO3	**290**	mg/L	20.0	10.5	1		10/30/25 16:53		
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City								
Total Dissolved Solids	**<10.0**	mg/L	10.0	10.0	1		10/23/25 11:01		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA-CA
Pace Project No.: 60484431

Sample: L-CA-FB-1 **Lab ID: 60484431009** Collected: 10/17/25 10:47 Received: 10/18/25 08:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City								
Barium	**<0.75**	ug/L	5.0	0.75	1	10/20/25 13:33	10/29/25 16:18	7440-39-3	
Beryllium	**<0.29**	ug/L	1.0	0.29	1	10/20/25 13:33	10/29/25 16:18	7440-41-7	
Boron	**<33.2**	ug/L	100	33.2	1	10/20/25 13:33	10/29/25 16:18	7440-42-8	
Calcium	**<45.3**	ug/L	200	45.3	1	10/20/25 13:33	10/29/25 16:18	7440-70-2	
Cobalt	**<0.97**	ug/L	5.0	0.97	1	10/20/25 13:33	10/29/25 16:18	7440-48-4	
Iron	**<15.4**	ug/L	50.0	15.4	1	10/20/25 13:33	10/29/25 16:18	7439-89-6	
Lead	**<3.3**	ug/L	10.0	3.3	1	10/20/25 13:33	10/29/25 16:18	7439-92-1	
Lithium	**<1.8**	ug/L	10.0	1.8	1	10/20/25 13:33	10/29/25 16:18	7439-93-2	
Magnesium	**<21.1**	ug/L	50.0	21.1	1	10/20/25 13:33	10/29/25 16:18	7439-95-4	
Manganese	**<0.42**	ug/L	5.0	0.42	1	10/20/25 13:33	10/29/25 16:18	7439-96-5	
Molybdenum	**<0.78**	ug/L	20.0	0.78	1	10/20/25 13:33	10/29/25 16:18	7439-98-7	
Potassium	**<45.2**	ug/L	500	45.2	1	10/20/25 13:33	10/29/25 16:18	7440-09-7	
Sodium	**<31.8**	ug/L	500	31.8	1	10/20/25 13:33	10/29/25 16:18	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Antimony	**<0.12**	ug/L	1.0	0.12	1	10/20/25 13:33	10/21/25 13:37	7440-36-0	
Arsenic	**<0.13**	ug/L	1.0	0.13	1	10/20/25 13:33	10/21/25 13:37	7440-38-2	
Cadmium	**<0.062**	ug/L	0.50	0.062	1	10/20/25 13:33	10/21/25 13:37	7440-43-9	
Chromium	**<0.34**	ug/L	1.0	0.34	1	10/20/25 13:33	10/21/25 13:37	7440-47-3	
Selenium	**<0.19**	ug/L	1.0	0.19	1	10/20/25 13:33	10/21/25 13:37	7782-49-2	
Thallium	**<0.11**	ug/L	1.0	0.11	1	10/20/25 13:33	10/21/25 13:37	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Kansas City								
Mercury	**<0.13**	ug/L	0.20	0.13	1	11/07/25 14:00	11/10/25 10:07	7439-97-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Salina								
Chloride	**<0.18**	mg/L	1.0	0.18	1		11/01/25 13:33	16887-00-6	
Fluoride	**<0.040**	mg/L	0.10	0.040	1		11/01/25 13:33	16984-48-8	
Sulfate	**<0.096**	mg/L	1.0	0.096	1		11/01/25 13:33	14808-79-8	
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Kansas City								
Alkalinity, Total as CaCO3	**<10.5**	mg/L	20.0	10.5	1		10/30/25 16:54		
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City								
Total Dissolved Solids	**300**	mg/L	5.0	5.0	1		10/23/25 11:01		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA-CA
Pace Project No.: 60484431

Sample: L-AMW-8 **Lab ID: 60484431012** Collected: 10/21/25 14:30 Received: 10/22/25 08:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City								
Barium	**116**	ug/L	5.0	0.75	1	10/23/25 09:34	11/11/25 10:30	7440-39-3	
Beryllium	**<0.29**	ug/L	1.0	0.29	1	10/23/25 09:34	11/11/25 10:30	7440-41-7	
Boron	**6930**	ug/L	100	33.2	1	10/23/25 09:34	11/11/25 10:30	7440-42-8	
Calcium	**70900**	ug/L	200	45.3	1	10/23/25 09:34	11/11/25 10:30	7440-70-2	
Cobalt	**<0.97**	ug/L	5.0	0.97	1	10/23/25 09:34	11/11/25 10:30	7440-48-4	
Iron	**2530**	ug/L	50.0	15.4	1	10/23/25 09:34	11/11/25 10:30	7439-89-6	
Lead	**<3.3**	ug/L	10.0	3.3	1	10/23/25 09:34	11/11/25 10:30	7439-92-1	
Lithium	**18.2**	ug/L	10.0	1.8	1	10/23/25 09:34	11/11/25 10:30	7439-93-2	
Magnesium	**12500**	ug/L	50.0	21.1	1	10/23/25 09:34	11/11/25 10:30	7439-95-4	
Manganese	**340**	ug/L	5.0	0.42	1	10/23/25 09:34	11/11/25 10:30	7439-96-5	
Molybdenum	**276**	ug/L	20.0	0.78	1	10/23/25 09:34	11/11/25 10:30	7439-98-7	
Potassium	**5540**	ug/L	500	45.2	1	10/23/25 09:34	11/11/25 10:30	7440-09-7	
Sodium	**75300**	ug/L	500	31.8	1	10/23/25 09:34	11/11/25 10:30	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Antimony	**<0.12**	ug/L	1.0	0.12	1	10/23/25 09:34	11/06/25 10:10	7440-36-0	
Arsenic	**0.16J**	ug/L	1.0	0.13	1	10/23/25 09:34	11/06/25 10:10	7440-38-2	
Cadmium	**0.095J**	ug/L	0.50	0.062	1	10/23/25 09:34	11/06/25 10:10	7440-43-9	
Chromium	**23.2**	ug/L	1.0	0.34	1	10/23/25 09:34	11/06/25 10:10	7440-47-3	
Selenium	**<0.19**	ug/L	1.0	0.19	1	10/23/25 09:34	11/06/25 10:10	7782-49-2	
Thallium	**<0.11**	ug/L	1.0	0.11	1	10/23/25 09:34	11/06/25 10:10	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Kansas City								
Mercury	**<0.13**	ug/L	0.20	0.13	1	11/07/25 14:00	11/10/25 10:30	7439-97-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Salina								
Chloride	**20.2**	mg/L	2.0	0.36	2		11/06/25 18:04	16887-00-6	
Fluoride	**0.32**	mg/L	0.10	0.040	1		11/06/25 17:02	16984-48-8	
Sulfate	**280**	mg/L	50.0	4.8	50		11/06/25 18:16	14808-79-8	
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Kansas City								
Alkalinity, Total as CaCO3	**115**	mg/L	20.0	10.5	1		11/04/25 21:00		
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City								
Total Dissolved Solids	**580**	mg/L	10.0	10.0	1		10/28/25 10:56		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA-CA
Pace Project No.: 60484431

Sample: L-MW-24 **Lab ID: 60484431016** Collected: 10/21/25 12:49 Received: 10/22/25 08:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City								
Barium	**161**	ug/L	5.0	0.75	1	10/23/25 09:34	11/11/25 10:43	7440-39-3	
Beryllium	**<0.29**	ug/L	1.0	0.29	1	10/23/25 09:34	11/11/25 10:43	7440-41-7	
Boron	**94.1J**	ug/L	100	33.2	1	10/23/25 09:34	11/11/25 10:43	7440-42-8	
Calcium	**111000**	ug/L	200	45.3	1	10/23/25 09:34	11/11/25 10:43	7440-70-2	
Cobalt	**<0.97**	ug/L	5.0	0.97	1	10/23/25 09:34	11/11/25 10:43	7440-48-4	
Iron	**80.6**	ug/L	50.0	15.4	1	10/23/25 09:34	11/11/25 10:43	7439-89-6	
Lead	**<3.3**	ug/L	10.0	3.3	1	10/23/25 09:34	11/11/25 10:43	7439-92-1	
Lithium	**18.3**	ug/L	10.0	1.8	1	10/23/25 09:34	11/11/25 10:43	7439-93-2	
Magnesium	**21700**	ug/L	50.0	21.1	1	10/23/25 09:34	11/11/25 10:43	7439-95-4	
Manganese	**187**	ug/L	5.0	0.42	1	10/23/25 09:34	11/11/25 10:43	7439-96-5	
Molybdenum	**1.8J**	ug/L	20.0	0.78	1	10/23/25 09:34	11/11/25 10:43	7439-98-7	
Potassium	**5030**	ug/L	500	45.2	1	10/23/25 09:34	11/11/25 10:43	7440-09-7	
Sodium	**6330**	ug/L	500	31.8	1	10/23/25 09:34	11/11/25 10:43	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Antimony	**0.17J**	ug/L	1.0	0.12	1	10/23/25 09:34	11/06/25 10:23	7440-36-0	
Arsenic	**0.97J**	ug/L	1.0	0.13	1	10/23/25 09:34	11/06/25 10:23	7440-38-2	
Cadmium	**<0.062**	ug/L	0.50	0.062	1	10/23/25 09:34	11/06/25 10:23	7440-43-9	
Chromium	**<0.34**	ug/L	1.0	0.34	1	10/23/25 09:34	11/06/25 10:23	7440-47-3	
Selenium	**1.4**	ug/L	1.0	0.19	1	10/23/25 09:34	11/06/25 10:23	7782-49-2	
Thallium	**<0.11**	ug/L	1.0	0.11	1	10/23/25 09:34	11/06/25 10:23	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Kansas City								
Mercury	**<0.17**	ug/L	0.20	0.17	1	11/10/25 14:04	11/11/25 09:44	7439-97-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Salina								
Chloride	**3.2**	mg/L	1.0	0.18	1		11/01/25 14:23	16887-00-6	
Fluoride	**0.19**	mg/L	0.10	0.040	1		11/01/25 14:23	16984-48-8	
Sulfate	**22.8**	mg/L	2.0	0.19	2		11/01/25 21:19	14808-79-8	
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Kansas City								
Alkalinity, Total as CaCO3	**364**	mg/L	20.0	10.5	1		11/04/25 21:46		
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City								
Total Dissolved Solids	**411**	mg/L	10.0	10.0	1		10/28/25 10:57		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA-CA
Pace Project No.: 60484431

Sample: L-MW-35(D) **Lab ID: 60484431018** Collected: 10/21/25 13:27 Received: 10/22/25 08:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City								
Barium	**94.8**	ug/L	5.0	0.75	1	10/23/25 09:34	11/11/25 10:47	7440-39-3	
Beryllium	**<0.29**	ug/L	1.0	0.29	1	10/23/25 09:34	11/11/25 10:47	7440-41-7	
Boron	**5660**	ug/L	100	33.2	1	10/23/25 09:34	11/11/25 10:47	7440-42-8	
Calcium	**135000**	ug/L	200	45.3	1	10/23/25 09:34	11/11/25 10:47	7440-70-2	
Cobalt	**<0.97**	ug/L	5.0	0.97	1	10/23/25 09:34	11/11/25 10:47	7440-48-4	
Iron	**6700**	ug/L	50.0	15.4	1	10/23/25 09:34	11/11/25 10:47	7439-89-6	
Lead	**<3.3**	ug/L	10.0	3.3	1	10/23/25 09:34	11/11/25 10:47	7439-92-1	
Lithium	**31.5**	ug/L	10.0	1.8	1	10/23/25 09:34	11/11/25 10:47	7439-93-2	
Magnesium	**30700**	ug/L	50.0	21.1	1	10/23/25 09:34	11/11/25 10:47	7439-95-4	
Manganese	**444**	ug/L	5.0	0.42	1	10/23/25 09:34	11/11/25 10:47	7439-96-5	
Molybdenum	**292**	ug/L	20.0	0.78	1	10/23/25 09:34	11/11/25 10:47	7439-98-7	
Potassium	**5250**	ug/L	500	45.2	1	10/23/25 09:34	11/11/25 10:47	7440-09-7	
Sodium	**36100**	ug/L	500	31.8	1	10/23/25 09:34	11/11/25 10:47	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Antimony	**<0.12**	ug/L	1.0	0.12	1	10/23/25 09:34	11/06/25 10:32	7440-36-0	
Arsenic	**0.14J**	ug/L	1.0	0.13	1	10/23/25 09:34	11/06/25 10:32	7440-38-2	
Cadmium	**0.094J**	ug/L	0.50	0.062	1	10/23/25 09:34	11/06/25 10:32	7440-43-9	
Chromium	**<0.34**	ug/L	1.0	0.34	1	10/23/25 09:34	11/06/25 10:32	7440-47-3	
Selenium	**<0.19**	ug/L	1.0	0.19	1	10/23/25 09:34	11/06/25 10:32	7782-49-2	
Thallium	**<0.11**	ug/L	1.0	0.11	1	10/23/25 09:34	11/06/25 10:32	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Kansas City								
Mercury	**<0.17**	ug/L	0.20	0.17	1	11/10/25 14:04	11/11/25 09:48	7439-97-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Salina								
Chloride	**10.2**	mg/L	1.0	0.18	1		11/01/25 14:48	16887-00-6	
Fluoride	**0.23**	mg/L	0.10	0.040	1		11/01/25 14:48	16984-48-8	
Sulfate	**92.5**	mg/L	10.0	0.96	10		11/01/25 21:56	14808-79-8	
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Kansas City								
Alkalinity, Total as CaCO3	**431**	mg/L	20.0	10.5	1		11/04/25 22:00		
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City								
Total Dissolved Solids	**594**	mg/L	10.0	10.0	1		10/28/25 10:57		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA-CA
Pace Project No.: 60484431

Sample: L-S-1 **Lab ID: 60484431019** Collected: 10/21/25 14:16 Received: 10/22/25 08:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City								
Barium	**359**	ug/L	5.0	0.75	1	10/23/25 09:34	11/11/25 10:49	7440-39-3	
Beryllium	**<0.29**	ug/L	1.0	0.29	1	10/23/25 09:34	11/11/25 10:49	7440-41-7	
Boron	**75.6J**	ug/L	100	33.2	1	10/23/25 09:34	11/11/25 10:49	7440-42-8	
Calcium	**142000**	ug/L	200	45.3	1	10/23/25 09:34	11/11/25 10:49	7440-70-2	
Cobalt	**<0.97**	ug/L	5.0	0.97	1	10/23/25 09:34	11/11/25 10:49	7440-48-4	
Iron	**17.1J**	ug/L	50.0	15.4	1	10/23/25 09:34	11/11/25 10:49	7439-89-6	
Lead	**<3.3**	ug/L	10.0	3.3	1	10/23/25 09:34	11/11/25 10:49	7439-92-1	
Lithium	**20.4**	ug/L	10.0	1.8	1	10/23/25 09:34	11/11/25 10:49	7439-93-2	
Magnesium	**19200**	ug/L	50.0	21.1	1	10/23/25 09:34	11/11/25 10:49	7439-95-4	
Manganese	**139**	ug/L	5.0	0.42	1	10/23/25 09:34	11/11/25 10:49	7439-96-5	
Molybdenum	**0.86J**	ug/L	20.0	0.78	1	10/23/25 09:34	11/11/25 10:49	7439-98-7	
Potassium	**22300**	ug/L	500	45.2	1	10/23/25 09:34	11/11/25 10:49	7440-09-7	
Sodium	**6630**	ug/L	500	31.8	1	10/23/25 09:34	11/11/25 10:49	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Antimony	**0.14J**	ug/L	1.0	0.12	1	10/23/25 09:34	11/06/25 10:35	7440-36-0	
Arsenic	**0.46J**	ug/L	1.0	0.13	1	10/23/25 09:34	11/06/25 10:35	7440-38-2	
Cadmium	**0.068J**	ug/L	0.50	0.062	1	10/23/25 09:34	11/06/25 10:35	7440-43-9	
Chromium	**<0.34**	ug/L	1.0	0.34	1	10/23/25 09:34	11/06/25 10:35	7440-47-3	
Selenium	**1.1**	ug/L	1.0	0.19	1	10/23/25 09:34	11/06/25 10:35	7782-49-2	
Thallium	**<0.11**	ug/L	1.0	0.11	1	10/23/25 09:34	11/06/25 10:35	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Kansas City								
Mercury	**<0.17**	ug/L	0.20	0.17	1	11/10/25 14:04	11/11/25 09:50	7439-97-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Salina								
Chloride	**0.73J**	mg/L	1.0	0.18	1		11/01/25 15:00	16887-00-6	
Fluoride	**0.12**	mg/L	0.10	0.040	1		11/01/25 15:00	16984-48-8	
Sulfate	**12.0**	mg/L	1.0	0.096	1		11/01/25 15:00	14808-79-8	
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Kansas City								
Alkalinity, Total as CaCO3	**472**	mg/L	20.0	10.5	1		11/04/25 22:06		
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City								
Total Dissolved Solids	**514**	mg/L	10.0	10.0	1		10/28/25 10:57		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA-CA
Pace Project No.: 60484431

Sample: L-TP-1D **Lab ID: 60484431020** Collected: 10/20/25 13:50 Received: 10/22/25 08:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City								
Barium	**1420**	ug/L	5.0	0.75	1	10/23/25 09:34	11/11/25 10:50	7440-39-3	
Beryllium	**<0.29**	ug/L	1.0	0.29	1	10/23/25 09:34	11/11/25 10:50	7440-41-7	
Boron	**51.2J**	ug/L	100	33.2	1	10/23/25 09:34	11/11/25 10:50	7440-42-8	
Calcium	**137000**	ug/L	200	45.3	1	10/23/25 09:34	11/11/25 10:50	7440-70-2	
Cobalt	**<0.97**	ug/L	5.0	0.97	1	10/23/25 09:34	11/11/25 10:50	7440-48-4	
Iron	**8570**	ug/L	50.0	15.4	1	10/23/25 09:34	11/11/25 10:50	7439-89-6	
Lead	**<3.3**	ug/L	10.0	3.3	1	10/23/25 09:34	11/11/25 10:50	7439-92-1	
Lithium	**24.8**	ug/L	10.0	1.8	1	10/23/25 09:34	11/11/25 10:50	7439-93-2	
Magnesium	**34000**	ug/L	50.0	21.1	1	10/23/25 09:34	11/11/25 10:50	7439-95-4	
Manganese	**269**	ug/L	5.0	0.42	1	10/23/25 09:34	11/11/25 10:50	7439-96-5	
Molybdenum	**1.1J**	ug/L	20.0	0.78	1	10/23/25 09:34	11/11/25 10:50	7439-98-7	
Potassium	**4250**	ug/L	500	45.2	1	10/23/25 09:34	11/11/25 10:50	7440-09-7	
Sodium	**10600**	ug/L	500	31.8	1	10/23/25 09:34	11/11/25 10:50	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Antimony	**<0.12**	ug/L	1.0	0.12	1	10/23/25 09:34	11/06/25 10:37	7440-36-0	
Arsenic	**1.0**	ug/L	1.0	0.13	1	10/23/25 09:34	11/06/25 10:37	7440-38-2	
Cadmium	**<0.062**	ug/L	0.50	0.062	1	10/23/25 09:34	11/06/25 10:37	7440-43-9	
Chromium	**0.40J**	ug/L	1.0	0.34	1	10/23/25 09:34	11/06/25 10:37	7440-47-3	
Selenium	**<0.19**	ug/L	1.0	0.19	1	10/23/25 09:34	11/06/25 10:37	7782-49-2	
Thallium	**<0.11**	ug/L	1.0	0.11	1	10/23/25 09:34	11/06/25 10:37	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Kansas City								
Mercury	**<0.17**	ug/L	0.20	0.17	1	11/10/25 14:04	11/11/25 09:53	7439-97-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Salina								
Chloride	**4.9**	mg/L	1.0	0.18	1		11/01/25 15:37	16887-00-6	
Fluoride	**0.16**	mg/L	0.10	0.040	1		11/01/25 15:37	16984-48-8	
Sulfate	**17.6**	mg/L	2.0	0.19	2		11/01/25 22:08	14808-79-8	
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Kansas City								
Alkalinity, Total as CaCO3	**484**	mg/L	20.0	10.5	1		11/03/25 14:49		
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City								
Total Dissolved Solids	**540**	mg/L	10.0	10.0	1		10/27/25 10:51		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA-CA
Pace Project No.: 60484431

Sample: L-TP-2M **Lab ID: 60484431021** Collected: 10/20/25 11:27 Received: 10/22/25 08:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City								
Barium	**150**	ug/L	5.0	0.75	1	10/23/25 09:34	11/11/25 10:25	7440-39-3	
Beryllium	**<0.29**	ug/L	1.0	0.29	1	10/23/25 09:34	11/11/25 10:25	7440-41-7	
Boron	**1020**	ug/L	100	33.2	1	10/23/25 09:34	11/11/25 10:25	7440-42-8	
Calcium	**119000**	ug/L	200	45.3	1	10/23/25 09:34	11/11/25 10:25	7440-70-2	
Cobalt	**<0.97**	ug/L	5.0	0.97	1	10/23/25 09:34	11/11/25 10:25	7440-48-4	
Iron	**3800**	ug/L	50.0	15.4	1	10/23/25 09:34	11/11/25 10:25	7439-89-6	
Lead	**<3.3**	ug/L	10.0	3.3	1	10/23/25 09:34	11/11/25 10:25	7439-92-1	
Lithium	**38.6**	ug/L	10.0	1.8	1	10/23/25 09:34	11/11/25 10:25	7439-93-2	
Magnesium	**18400**	ug/L	50.0	21.1	1	10/23/25 09:34	11/11/25 10:25	7439-95-4	
Manganese	**503**	ug/L	5.0	0.42	1	10/23/25 09:34	11/11/25 10:25	7439-96-5	
Molybdenum	**66.2**	ug/L	20.0	0.78	1	10/23/25 09:34	11/11/25 10:25	7439-98-7	
Potassium	**7250**	ug/L	500	45.2	1	10/23/25 09:34	11/11/25 10:25	7440-09-7	
Sodium	**74300**	ug/L	500	31.8	1	10/23/25 09:34	11/11/25 10:25	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Antimony	**<0.12**	ug/L	1.0	0.12	1	10/23/25 09:34	11/06/25 09:58	7440-36-0	
Arsenic	**0.42J**	ug/L	1.0	0.13	1	10/23/25 09:34	11/06/25 09:58	7440-38-2	
Cadmium	**<0.062**	ug/L	0.50	0.062	1	10/23/25 09:34	11/06/25 09:58	7440-43-9	
Chromium	**<0.34**	ug/L	1.0	0.34	1	10/23/25 09:34	11/06/25 09:58	7440-47-3	
Selenium	**<0.19**	ug/L	1.0	0.19	1	10/23/25 09:34	11/06/25 09:58	7782-49-2	
Thallium	**<0.11**	ug/L	1.0	0.11	1	10/23/25 09:34	11/06/25 09:58	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Kansas City								
Mercury	**<0.17**	ug/L	0.20	0.17	1	11/10/25 14:04	11/11/25 10:00	7439-97-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Salina								
Chloride	**26.3**	mg/L	2.0	0.36	2		11/02/25 13:33	16887-00-6	
Fluoride	**0.40**	mg/L	0.10	0.040	1		11/02/25 10:40	16984-48-8	
Sulfate	**239**	mg/L	20.0	1.9	20		11/02/25 14:10	14808-79-8	
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Kansas City								
Alkalinity, Total as CaCO3	**285**	mg/L	20.0	10.5	1		11/03/25 14:55		
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City								
Total Dissolved Solids	**682**	mg/L	10.0	10.0	1		10/27/25 10:51		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA-CA
Pace Project No.: 60484431

Sample: L-TP-2D **Lab ID: 60484431022** Collected: 10/20/25 09:57 Received: 10/22/25 08:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City								
Barium	**125**	ug/L	5.0	0.75	1	10/23/25 10:10	11/11/25 11:23	7440-39-3	
Beryllium	**<0.29**	ug/L	1.0	0.29	1	10/23/25 10:10	11/11/25 11:23	7440-41-7	
Boron	**1320**	ug/L	100	33.2	1	10/23/25 10:10	11/11/25 11:23	7440-42-8	
Calcium	**105000**	ug/L	200	45.3	1	10/23/25 10:10	11/11/25 11:23	7440-70-2	M1,P6
Cobalt	**<0.97**	ug/L	5.0	0.97	1	10/23/25 10:10	11/11/25 11:23	7440-48-4	
Iron	**3860**	ug/L	50.0	15.4	1	10/23/25 10:10	11/11/25 11:23	7439-89-6	
Lead	**<3.3**	ug/L	10.0	3.3	1	10/23/25 10:10	11/11/25 11:23	7439-92-1	
Lithium	**38.6**	ug/L	10.0	1.8	1	10/23/25 10:10	11/11/25 11:23	7439-93-2	
Magnesium	**18300**	ug/L	50.0	21.1	1	10/23/25 10:10	11/11/25 11:23	7439-95-4	
Manganese	**351**	ug/L	5.0	0.42	1	10/23/25 10:10	11/11/25 11:23	7439-96-5	
Molybdenum	**115**	ug/L	20.0	0.78	1	10/23/25 10:10	11/11/25 11:23	7439-98-7	
Potassium	**5950**	ug/L	500	45.2	1	10/23/25 10:10	11/11/25 11:23	7440-09-7	
Sodium	**59000**	ug/L	500	31.8	1	10/23/25 10:10	11/11/25 11:23	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Antimony	**<0.12**	ug/L	1.0	0.12	1	10/23/25 10:10	11/06/25 10:56	7440-36-0	
Arsenic	**11.1**	ug/L	1.0	0.13	1	10/23/25 10:10	11/06/25 10:56	7440-38-2	
Cadmium	**<0.062**	ug/L	0.50	0.062	1	10/23/25 10:10	11/06/25 10:56	7440-43-9	
Chromium	**<0.34**	ug/L	1.0	0.34	1	10/23/25 10:10	11/06/25 10:56	7440-47-3	
Selenium	**<0.19**	ug/L	1.0	0.19	1	10/23/25 10:10	11/06/25 10:56	7782-49-2	
Thallium	**<0.11**	ug/L	1.0	0.11	1	10/23/25 10:10	11/06/25 10:56	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Kansas City								
Mercury	**<0.17**	ug/L	0.20	0.17	1	11/10/25 14:04	11/11/25 10:06	7439-97-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Salina								
Chloride	**23.3**	mg/L	2.0	0.36	2		11/02/25 15:11	16887-00-6	
Fluoride	**0.40**	mg/L	0.10	0.040	1		11/02/25 11:17	16984-48-8	
Sulfate	**168**	mg/L	20.0	1.9	20		11/02/25 15:24	14808-79-8	
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Kansas City								
Alkalinity, Total as CaCO3	**273**	mg/L	20.0	10.5	1		11/03/25 15:08		
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City								
Total Dissolved Solids	**583**	mg/L	10.0	10.0	1		10/27/25 10:51		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA-CA
Pace Project No.: 60484431

Sample: L-AM-1S **Lab ID: 60484431023** Collected: 10/20/25 13:09 Received: 10/22/25 08:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City								
Barium	**561**	ug/L	5.0	0.75	1	10/23/25 10:10	11/11/25 11:29	7440-39-3	
Beryllium	**<0.29**	ug/L	1.0	0.29	1	10/23/25 10:10	11/11/25 11:29	7440-41-7	
Boron	**318**	ug/L	100	33.2	1	10/23/25 10:10	11/11/25 11:29	7440-42-8	
Calcium	**178000**	ug/L	200	45.3	1	10/23/25 10:10	11/11/25 11:29	7440-70-2	
Cobalt	**<0.97**	ug/L	5.0	0.97	1	10/23/25 10:10	11/11/25 11:29	7440-48-4	
Iron	**989**	ug/L	50.0	15.4	1	10/23/25 10:10	11/11/25 11:29	7439-89-6	
Lead	**<3.3**	ug/L	10.0	3.3	1	10/23/25 10:10	11/11/25 11:29	7439-92-1	
Lithium	**30.3**	ug/L	10.0	1.8	1	10/23/25 10:10	11/11/25 11:29	7439-93-2	
Magnesium	**37900**	ug/L	50.0	21.1	1	10/23/25 10:10	11/11/25 11:29	7439-95-4	
Manganese	**1040**	ug/L	5.0	0.42	1	10/23/25 10:10	11/11/25 11:29	7439-96-5	
Molybdenum	**2.4J**	ug/L	20.0	0.78	1	10/23/25 10:10	11/11/25 11:29	7439-98-7	
Potassium	**6610**	ug/L	500	45.2	1	10/23/25 10:10	11/11/25 11:29	7440-09-7	
Sodium	**51500**	ug/L	500	31.8	1	10/23/25 10:10	11/11/25 11:29	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Antimony	**<0.12**	ug/L	1.0	0.12	1	10/23/25 10:10	11/06/25 10:49	7440-36-0	
Arsenic	**0.99J**	ug/L	1.0	0.13	1	10/23/25 10:10	11/06/25 10:49	7440-38-2	
Cadmium	**<0.062**	ug/L	0.50	0.062	1	10/23/25 10:10	11/06/25 10:49	7440-43-9	
Chromium	**<0.34**	ug/L	1.0	0.34	1	10/23/25 10:10	11/06/25 10:49	7440-47-3	
Selenium	**1.4**	ug/L	1.0	0.19	1	10/23/25 10:10	11/06/25 10:49	7782-49-2	
Thallium	**<0.11**	ug/L	1.0	0.11	1	10/23/25 10:10	11/06/25 10:49	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Kansas City								
Mercury	**<0.17**	ug/L	0.20	0.17	1	11/10/25 14:04	11/11/25 10:09	7439-97-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Salina								
Chloride	**39.9**	mg/L	5.0	0.90	5		11/02/25 15:36	16887-00-6	
Fluoride	**0.22**	mg/L	0.10	0.040	1		11/02/25 11:29	16984-48-8	
Sulfate	**13.6**	mg/L	1.0	0.096	1		11/02/25 11:29	14808-79-8	
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Kansas City								
Alkalinity, Total as CaCO3	**649**	mg/L	20.0	10.5	1		11/03/25 15:16		
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City								
Total Dissolved Solids	**764**	mg/L	13.3	13.3	1		10/27/25 10:51		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA-CA
Pace Project No.: 60484431

Sample: L-AM-1D **Lab ID: 60484431024** Collected: 10/20/25 11:13 Received: 10/22/25 08:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City								
Barium	**62.3**	ug/L	5.0	0.75	1	10/23/25 10:10	11/11/25 11:31	7440-39-3	
Beryllium	**<0.29**	ug/L	1.0	0.29	1	10/23/25 10:10	11/11/25 11:31	7440-41-7	
Boron	**6440**	ug/L	100	33.2	1	10/23/25 10:10	11/11/25 11:31	7440-42-8	
Calcium	**96000**	ug/L	200	45.3	1	10/23/25 10:10	11/11/25 11:31	7440-70-2	
Cobalt	**<0.97**	ug/L	5.0	0.97	1	10/23/25 10:10	11/11/25 11:31	7440-48-4	
Iron	**4710**	ug/L	50.0	15.4	1	10/23/25 10:10	11/11/25 11:31	7439-89-6	
Lead	**<3.3**	ug/L	10.0	3.3	1	10/23/25 10:10	11/11/25 11:31	7439-92-1	
Lithium	**25.9**	ug/L	10.0	1.8	1	10/23/25 10:10	11/11/25 11:31	7439-93-2	
Magnesium	**11200**	ug/L	50.0	21.1	1	10/23/25 10:10	11/11/25 11:31	7439-95-4	
Manganese	**230**	ug/L	5.0	0.42	1	10/23/25 10:10	11/11/25 11:31	7439-96-5	
Molybdenum	**313**	ug/L	20.0	0.78	1	10/23/25 10:10	11/11/25 11:31	7439-98-7	
Potassium	**8140**	ug/L	500	45.2	1	10/23/25 10:10	11/11/25 11:31	7440-09-7	
Sodium	**93900**	ug/L	500	31.8	1	10/23/25 10:10	11/11/25 11:31	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Antimony	**<0.12**	ug/L	1.0	0.12	1	10/23/25 10:10	11/06/25 11:02	7440-36-0	
Arsenic	**3.6**	ug/L	1.0	0.13	1	10/23/25 10:10	11/06/25 11:02	7440-38-2	
Cadmium	**0.11J**	ug/L	0.50	0.062	1	10/23/25 10:10	11/06/25 11:02	7440-43-9	
Chromium	**0.45J**	ug/L	1.0	0.34	1	10/23/25 10:10	11/06/25 11:02	7440-47-3	
Selenium	**<0.19**	ug/L	1.0	0.19	1	10/23/25 10:10	11/06/25 11:02	7782-49-2	
Thallium	**<0.11**	ug/L	1.0	0.11	1	10/23/25 10:10	11/06/25 11:02	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Kansas City								
Mercury	**<0.17**	ug/L	0.20	0.17	1	11/10/25 14:04	11/11/25 10:11	7439-97-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Salina								
Chloride	**31.4**	mg/L	5.0	0.90	5		11/02/25 15:48	16887-00-6	
Fluoride	**0.41**	mg/L	0.10	0.040	1		11/02/25 11:42	16984-48-8	
Sulfate	**827**	mg/L	50.0	4.8	50		11/02/25 16:01	14808-79-8	
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Kansas City								
Alkalinity, Total as CaCO3	**170**	mg/L	20.0	10.5	1		11/03/25 15:21		
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City								
Total Dissolved Solids	**716**	mg/L	10.0	10.0	1		10/27/25 10:51		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA-CA
Pace Project No.: 60484431

Sample: L-CA-DUP-1 **Lab ID: 60484431025** Collected: 10/20/25 00:00 Received: 10/22/25 08:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City								
Barium	**119**	ug/L	5.0	0.75	1	10/23/25 10:10	11/11/25 11:32	7440-39-3	
Beryllium	**<0.29**	ug/L	1.0	0.29	1	10/23/25 10:10	11/11/25 11:32	7440-41-7	
Boron	**1280**	ug/L	100	33.2	1	10/23/25 10:10	11/11/25 11:32	7440-42-8	
Calcium	**101000**	ug/L	200	45.3	1	10/23/25 10:10	11/11/25 11:32	7440-70-2	
Cobalt	**<0.97**	ug/L	5.0	0.97	1	10/23/25 10:10	11/11/25 11:32	7440-48-4	
Iron	**3670**	ug/L	50.0	15.4	1	10/23/25 10:10	11/11/25 11:32	7439-89-6	
Lead	**<3.3**	ug/L	10.0	3.3	1	10/23/25 10:10	11/11/25 11:32	7439-92-1	
Lithium	**33.2**	ug/L	10.0	1.8	1	10/23/25 10:10	11/11/25 11:32	7439-93-2	
Magnesium	**17700**	ug/L	50.0	21.1	1	10/23/25 10:10	11/11/25 11:32	7439-95-4	
Manganese	**332**	ug/L	5.0	0.42	1	10/23/25 10:10	11/11/25 11:32	7439-96-5	
Molybdenum	**108**	ug/L	20.0	0.78	1	10/23/25 10:10	11/11/25 11:32	7439-98-7	
Potassium	**5640**	ug/L	500	45.2	1	10/23/25 10:10	11/11/25 11:32	7440-09-7	
Sodium	**56900**	ug/L	500	31.8	1	10/23/25 10:10	11/11/25 11:32	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Antimony	**<0.12**	ug/L	1.0	0.12	1	10/23/25 10:10	11/06/25 11:05	7440-36-0	
Arsenic	**10.5**	ug/L	1.0	0.13	1	10/23/25 10:10	11/06/25 11:05	7440-38-2	
Cadmium	**<0.062**	ug/L	0.50	0.062	1	10/23/25 10:10	11/06/25 11:05	7440-43-9	
Chromium	**<0.34**	ug/L	1.0	0.34	1	10/23/25 10:10	11/06/25 11:05	7440-47-3	
Selenium	**<0.19**	ug/L	1.0	0.19	1	10/23/25 10:10	11/06/25 11:05	7782-49-2	
Thallium	**<0.11**	ug/L	1.0	0.11	1	10/23/25 10:10	11/06/25 11:05	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Kansas City								
Mercury	**<0.17**	ug/L	0.20	0.17	1	11/10/25 14:04	11/11/25 10:13	7439-97-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Salina								
Chloride	**23.0**	mg/L	2.0	0.36	2		11/02/25 16:13	16887-00-6	
Fluoride	**0.41**	mg/L	0.10	0.040	1		11/02/25 11:54	16984-48-8	
Sulfate	**158**	mg/L	20.0	1.9	20		11/02/25 16:25	14808-79-8	
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Kansas City								
Alkalinity, Total as CaCO3	**274**	mg/L	20.0	10.5	1		11/03/25 15:27		
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City								
Total Dissolved Solids	**566**	mg/L	10.0	10.0	1		10/27/25 10:51		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA-CA
Pace Project No.: 60484431

Sample: L-CA-DUP-2 **Lab ID: 60484431026** Collected: 10/20/25 00:00 Received: 10/22/25 08:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City								
Barium	**64.5**	ug/L	5.0	0.75	1	10/23/25 10:10	11/11/25 11:34	7440-39-3	
Beryllium	**<0.29**	ug/L	1.0	0.29	1	10/23/25 10:10	11/11/25 11:34	7440-41-7	
Boron	**6730**	ug/L	100	33.2	1	10/23/25 10:10	11/11/25 11:34	7440-42-8	
Calcium	**100000**	ug/L	200	45.3	1	10/23/25 10:10	11/11/25 11:34	7440-70-2	
Cobalt	**<0.97**	ug/L	5.0	0.97	1	10/23/25 10:10	11/11/25 11:34	7440-48-4	
Iron	**4880**	ug/L	50.0	15.4	1	10/23/25 10:10	11/11/25 11:34	7439-89-6	
Lead	**<3.3**	ug/L	10.0	3.3	1	10/23/25 10:10	11/11/25 11:34	7439-92-1	
Lithium	**27.6**	ug/L	10.0	1.8	1	10/23/25 10:10	11/11/25 11:34	7439-93-2	
Magnesium	**11600**	ug/L	50.0	21.1	1	10/23/25 10:10	11/11/25 11:34	7439-95-4	
Manganese	**240**	ug/L	5.0	0.42	1	10/23/25 10:10	11/11/25 11:34	7439-96-5	
Molybdenum	**328**	ug/L	20.0	0.78	1	10/23/25 10:10	11/11/25 11:34	7439-98-7	
Potassium	**8490**	ug/L	500	45.2	1	10/23/25 10:10	11/11/25 11:34	7440-09-7	
Sodium	**98200**	ug/L	500	31.8	1	10/23/25 10:10	11/11/25 11:34	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Antimony	**<0.12**	ug/L	1.0	0.12	1	10/23/25 10:10	11/06/25 11:07	7440-36-0	
Arsenic	**3.9**	ug/L	1.0	0.13	1	10/23/25 10:10	11/06/25 11:07	7440-38-2	
Cadmium	**0.11J**	ug/L	0.50	0.062	1	10/23/25 10:10	11/06/25 11:07	7440-43-9	
Chromium	**0.45J**	ug/L	1.0	0.34	1	10/23/25 10:10	11/06/25 11:07	7440-47-3	
Selenium	**<0.19**	ug/L	1.0	0.19	1	10/23/25 10:10	11/06/25 11:07	7782-49-2	
Thallium	**<0.11**	ug/L	1.0	0.11	1	10/23/25 10:10	11/06/25 11:07	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Kansas City								
Mercury	**<0.17**	ug/L	0.20	0.17	1	11/10/25 14:04	11/11/25 10:16	7439-97-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Salina								
Chloride	**31.5**	mg/L	5.0	0.90	5		11/02/25 16:38	16887-00-6	
Fluoride	**0.41**	mg/L	0.10	0.040	1		11/02/25 12:06	16984-48-8	
Sulfate	**312**	mg/L	50.0	4.8	50		11/02/25 16:50	14808-79-8	
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Kansas City								
Alkalinity, Total as CaCO3	**167**	mg/L	20.0	10.5	1		11/03/25 15:46		
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City								
Total Dissolved Solids	**718**	mg/L	10.0	10.0	1		10/27/25 10:52		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA-CA
Pace Project No.: 60484431

Sample: L-CA-DUP-3 **Lab ID: 60484431027** Collected: 10/20/25 00:00 Received: 10/22/25 08:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City								
Barium	**1490**	ug/L	5.0	0.75	1	10/23/25 10:10	11/11/25 10:54	7440-39-3	
Beryllium	**<0.29**	ug/L	1.0	0.29	1	10/23/25 10:10	11/11/25 10:54	7440-41-7	
Boron	**52.9J**	ug/L	100	33.2	1	10/23/25 10:10	11/11/25 10:54	7440-42-8	
Calcium	**143000**	ug/L	200	45.3	1	10/23/25 10:10	11/11/25 10:54	7440-70-2	
Cobalt	**<0.97**	ug/L	5.0	0.97	1	10/23/25 10:10	11/11/25 10:54	7440-48-4	
Iron	**9120**	ug/L	50.0	15.4	1	10/23/25 10:10	11/11/25 10:54	7439-89-6	
Lead	**<3.3**	ug/L	10.0	3.3	1	10/23/25 10:10	11/11/25 10:54	7439-92-1	
Lithium	**27.8**	ug/L	10.0	1.8	1	10/23/25 10:10	11/11/25 10:54	7439-93-2	
Magnesium	**35700**	ug/L	50.0	21.1	1	10/23/25 10:10	11/11/25 10:54	7439-95-4	
Manganese	**284**	ug/L	5.0	0.42	1	10/23/25 10:10	11/11/25 10:54	7439-96-5	
Molybdenum	**0.82J**	ug/L	20.0	0.78	1	10/23/25 10:10	11/11/25 10:54	7439-98-7	
Potassium	**4470**	ug/L	500	45.2	1	10/23/25 10:10	11/11/25 10:54	7440-09-7	
Sodium	**11000**	ug/L	500	31.8	1	10/23/25 10:10	11/11/25 10:54	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Antimony	**<0.12**	ug/L	1.0	0.12	1	10/23/25 10:10	11/06/25 11:14	7440-36-0	
Arsenic	**1.1**	ug/L	1.0	0.13	1	10/23/25 10:10	11/06/25 11:14	7440-38-2	
Cadmium	**<0.062**	ug/L	0.50	0.062	1	10/23/25 10:10	11/06/25 11:14	7440-43-9	
Chromium	**0.43J**	ug/L	1.0	0.34	1	10/23/25 10:10	11/06/25 11:14	7440-47-3	
Selenium	**<0.19**	ug/L	1.0	0.19	1	10/23/25 10:10	11/06/25 11:14	7782-49-2	
Thallium	**<0.11**	ug/L	1.0	0.11	1	10/23/25 10:10	11/06/25 11:14	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Kansas City								
Mercury	**<0.17**	ug/L	0.20	0.17	1	11/10/25 14:04	11/11/25 10:18	7439-97-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Salina								
Chloride	**5.0**	mg/L	1.0	0.18	1		11/02/25 12:43	16887-00-6	
Fluoride	**0.16**	mg/L	0.10	0.040	1		11/02/25 12:43	16984-48-8	
Sulfate	**17.9**	mg/L	1.0	0.096	1		11/02/25 12:43	14808-79-8	
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Kansas City								
Alkalinity, Total as CaCO3	**489**	mg/L	20.0	10.5	1		11/03/25 15:53		
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City								
Total Dissolved Solids	**537**	mg/L	10.0	10.0	1		10/27/25 10:52		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA-CA
Pace Project No.: 60484431

Sample: L-CA-FB-2 **Lab ID: 60484431028** Collected: 10/20/25 13:00 Received: 10/22/25 08:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City								
Barium	**<0.75**	ug/L	5.0	0.75	1	10/23/25 10:10	11/11/25 10:56	7440-39-3	
Beryllium	**<0.29**	ug/L	1.0	0.29	1	10/23/25 10:10	11/11/25 10:56	7440-41-7	
Boron	**<33.2**	ug/L	100	33.2	1	10/23/25 10:10	11/11/25 10:56	7440-42-8	
Calcium	**<45.3**	ug/L	200	45.3	1	10/23/25 10:10	11/11/25 10:56	7440-70-2	
Cobalt	**<0.97**	ug/L	5.0	0.97	1	10/23/25 10:10	11/11/25 10:56	7440-48-4	
Iron	**<15.4**	ug/L	50.0	15.4	1	10/23/25 10:10	11/11/25 10:56	7439-89-6	
Lead	**<3.3**	ug/L	10.0	3.3	1	10/23/25 10:10	11/11/25 10:56	7439-92-1	
Lithium	**<1.8**	ug/L	10.0	1.8	1	10/23/25 10:10	11/11/25 10:56	7439-93-2	
Magnesium	**<21.1**	ug/L	50.0	21.1	1	10/23/25 10:10	11/11/25 10:56	7439-95-4	
Manganese	**<0.42**	ug/L	5.0	0.42	1	10/23/25 10:10	11/11/25 10:56	7439-96-5	
Molybdenum	**<0.78**	ug/L	20.0	0.78	1	10/23/25 10:10	11/11/25 10:56	7439-98-7	
Potassium	**<45.2**	ug/L	500	45.2	1	10/23/25 10:10	11/11/25 10:56	7440-09-7	
Sodium	**<31.8**	ug/L	500	31.8	1	10/23/25 10:10	11/11/25 10:56	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Antimony	**<0.12**	ug/L	1.0	0.12	1	10/23/25 10:10	11/06/25 11:16	7440-36-0	
Arsenic	**<0.13**	ug/L	1.0	0.13	1	10/23/25 10:10	11/06/25 11:16	7440-38-2	
Cadmium	**<0.062**	ug/L	0.50	0.062	1	10/23/25 10:10	11/06/25 11:16	7440-43-9	
Chromium	**<0.34**	ug/L	1.0	0.34	1	10/23/25 10:10	11/06/25 11:16	7440-47-3	
Selenium	**<0.19**	ug/L	1.0	0.19	1	10/23/25 10:10	11/06/25 11:16	7782-49-2	
Thallium	**<0.11**	ug/L	1.0	0.11	1	10/23/25 10:10	11/06/25 11:16	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Kansas City								
Mercury	**<0.17**	ug/L	0.20	0.17	1	11/10/25 14:04	11/11/25 10:20	7439-97-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Salina								
Chloride	**<0.18**	mg/L	1.0	0.18	1		11/02/25 12:56	16887-00-6	
Fluoride	**<0.040**	mg/L	0.10	0.040	1		11/02/25 12:56	16984-48-8	
Sulfate	**<0.096**	mg/L	1.0	0.096	1		11/02/25 12:56	14808-79-8	
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Kansas City								
Alkalinity, Total as CaCO3	**<10.5**	mg/L	20.0	10.5	1		11/03/25 15:57		
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City								
Total Dissolved Solids	**<5.0**	mg/L	5.0	5.0	1		10/27/25 10:55		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA-CA
Pace Project No.: 60484431

Sample: L-CA-FB-3 **Lab ID: 60484431029** Collected: 10/21/25 14:10 Received: 10/22/25 08:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City								
Barium	**<0.75**	ug/L	5.0	0.75	1	10/23/25 10:10	11/11/25 10:58	7440-39-3	
Beryllium	**<0.29**	ug/L	1.0	0.29	1	10/23/25 10:10	11/11/25 10:58	7440-41-7	
Boron	**<33.2**	ug/L	100	33.2	1	10/23/25 10:10	11/11/25 10:58	7440-42-8	
Calcium	**<45.3**	ug/L	200	45.3	1	10/23/25 10:10	11/11/25 10:58	7440-70-2	
Cobalt	**<0.97**	ug/L	5.0	0.97	1	10/23/25 10:10	11/11/25 10:58	7440-48-4	
Iron	**<15.4**	ug/L	50.0	15.4	1	10/23/25 10:10	11/11/25 10:58	7439-89-6	
Lead	**<3.3**	ug/L	10.0	3.3	1	10/23/25 10:10	11/11/25 10:58	7439-92-1	
Lithium	**<1.8**	ug/L	10.0	1.8	1	10/23/25 10:10	11/11/25 10:58	7439-93-2	
Magnesium	**<21.1**	ug/L	50.0	21.1	1	10/23/25 10:10	11/11/25 10:58	7439-95-4	
Manganese	**<0.42**	ug/L	5.0	0.42	1	10/23/25 10:10	11/11/25 10:58	7439-96-5	
Molybdenum	**<0.78**	ug/L	20.0	0.78	1	10/23/25 10:10	11/11/25 10:58	7439-98-7	
Potassium	**<45.2**	ug/L	500	45.2	1	10/23/25 10:10	11/11/25 10:58	7440-09-7	
Sodium	**<31.8**	ug/L	500	31.8	1	10/23/25 10:10	11/11/25 10:58	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Antimony	**<0.12**	ug/L	1.0	0.12	1	10/23/25 10:10	11/06/25 11:19	7440-36-0	
Arsenic	**<0.13**	ug/L	1.0	0.13	1	10/23/25 10:10	11/06/25 11:19	7440-38-2	
Cadmium	**<0.062**	ug/L	0.50	0.062	1	10/23/25 10:10	11/06/25 11:19	7440-43-9	
Chromium	**<0.34**	ug/L	1.0	0.34	1	10/23/25 10:10	11/06/25 11:19	7440-47-3	
Selenium	**<0.19**	ug/L	1.0	0.19	1	10/23/25 10:10	11/06/25 11:19	7782-49-2	
Thallium	**<0.11**	ug/L	1.0	0.11	1	10/23/25 10:10	11/06/25 11:19	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Kansas City								
Mercury	**<0.17**	ug/L	0.20	0.17	1	11/10/25 14:04	11/11/25 10:27	7439-97-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Salina								
Chloride	**<0.18**	mg/L	1.0	0.18	1		11/02/25 13:08	16887-00-6	
Fluoride	**<0.040**	mg/L	0.10	0.040	1		11/02/25 13:08	16984-48-8	
Sulfate	**<0.096**	mg/L	1.0	0.096	1		11/02/25 13:08	14808-79-8	
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Kansas City								
Alkalinity, Total as CaCO3	**<10.5**	mg/L	20.0	10.5	1		11/04/25 22:10		
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City								
Total Dissolved Solids	**<5.0**	mg/L	5.0	5.0	1		10/28/25 10:57		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA-CA
Pace Project No.: 60484431

Sample: L-MW-26 **Lab ID: 60484431017** Collected: 10/21/25 12:02 Received: 10/22/25 08:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City								
Barium	**197**	ug/L	5.0	0.75	1	10/23/25 09:34	11/11/25 10:45	7440-39-3	
Beryllium	**<0.29**	ug/L	1.0	0.29	1	10/23/25 09:34	11/11/25 10:45	7440-41-7	
Boron	**66.1J**	ug/L	100	33.2	1	10/23/25 09:34	11/11/25 10:45	7440-42-8	
Calcium	**128000**	ug/L	200	45.3	1	10/23/25 09:34	11/11/25 10:45	7440-70-2	
Cobalt	**<0.97**	ug/L	5.0	0.97	1	10/23/25 09:34	11/11/25 10:45	7440-48-4	
Iron	**<15.4**	ug/L	50.0	15.4	1	10/23/25 09:34	11/11/25 10:45	7439-89-6	
Lead	**<3.3**	ug/L	10.0	3.3	1	10/23/25 09:34	11/11/25 10:45	7439-92-1	
Lithium	**23.3**	ug/L	10.0	1.8	1	10/23/25 09:34	11/11/25 10:45	7439-93-2	
Magnesium	**22300**	ug/L	50.0	21.1	1	10/23/25 09:34	11/11/25 10:45	7439-95-4	
Manganese	**17.4**	ug/L	5.0	0.42	1	10/23/25 09:34	11/11/25 10:45	7439-96-5	
Molybdenum	**<0.78**	ug/L	20.0	0.78	1	10/23/25 09:34	11/11/25 10:45	7439-98-7	
Potassium	**4510**	ug/L	500	45.2	1	10/23/25 09:34	11/11/25 10:45	7440-09-7	
Sodium	**8100**	ug/L	500	31.8	1	10/23/25 09:34	11/11/25 10:45	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Antimony	**0.12J**	ug/L	1.0	0.12	1	10/23/25 09:34	11/06/25 10:26	7440-36-0	
Arsenic	**0.40J**	ug/L	1.0	0.13	1	10/23/25 09:34	11/06/25 10:26	7440-38-2	
Cadmium	**<0.062**	ug/L	0.50	0.062	1	10/23/25 09:34	11/06/25 10:26	7440-43-9	
Chromium	**0.39J**	ug/L	1.0	0.34	1	10/23/25 09:34	11/06/25 10:26	7440-47-3	
Selenium	**3.0**	ug/L	1.0	0.19	1	10/23/25 09:34	11/06/25 10:26	7782-49-2	
Thallium	**<0.11**	ug/L	1.0	0.11	1	10/23/25 09:34	11/06/25 10:26	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Kansas City								
Mercury	**<0.17**	ug/L	0.20	0.17	1	11/10/25 14:04	11/11/25 09:46	7439-97-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Salina								
Chloride	**6.2**	mg/L	1.0	0.18	1		11/01/25 14:35	16887-00-6	
Fluoride	**0.12**	mg/L	0.10	0.040	1		11/01/25 14:35	16984-48-8	
Sulfate	**17.2**	mg/L	1.0	0.096	1		11/01/25 14:35	14808-79-8	
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Kansas City								
Alkalinity, Total as CaCO3	**409**	mg/L	20.0	10.5	1		11/04/25 21:53		
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City								
Total Dissolved Solids	**469**	mg/L	10.0	10.0	1		10/28/25 10:57		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA-CA
Pace Project No.: 60484431

Sample: L-BMW-1S **Lab ID: 60484431013** Collected: 10/21/25 11:06 Received: 10/22/25 08:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City								
Barium	**319**	ug/L	5.0	0.75	1	10/23/25 09:34	11/11/25 10:32	7440-39-3	
Beryllium	**<0.29**	ug/L	1.0	0.29	1	10/23/25 09:34	11/11/25 10:32	7440-41-7	
Boron	**83.9J**	ug/L	100	33.2	1	10/23/25 09:34	11/11/25 10:32	7440-42-8	
Calcium	**191000**	ug/L	200	45.3	1	10/23/25 09:34	11/11/25 10:32	7440-70-2	
Cobalt	**1.9J**	ug/L	5.0	0.97	1	10/23/25 09:34	11/11/25 10:32	7440-48-4	
Iron	**24100**	ug/L	50.0	15.4	1	10/23/25 09:34	11/11/25 10:32	7439-89-6	
Lead	**<3.3**	ug/L	10.0	3.3	1	10/23/25 09:34	11/11/25 10:32	7439-92-1	
Lithium	**22.3**	ug/L	10.0	1.8	1	10/23/25 09:34	11/11/25 10:32	7439-93-2	
Magnesium	**34500**	ug/L	50.0	21.1	1	10/23/25 09:34	11/11/25 10:32	7439-95-4	
Manganese	**2540**	ug/L	5.0	0.42	1	10/23/25 09:34	11/11/25 10:32	7439-96-5	
Molybdenum	**<0.78**	ug/L	20.0	0.78	1	10/23/25 09:34	11/11/25 10:32	7439-98-7	
Potassium	**5230**	ug/L	500	45.2	1	10/23/25 09:34	11/11/25 10:32	7440-09-7	
Sodium	**8740**	ug/L	500	31.8	1	10/23/25 09:34	11/11/25 10:32	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Antimony	**<0.12**	ug/L	1.0	0.12	1	10/23/25 09:34	11/06/25 10:12	7440-36-0	
Arsenic	**15.3**	ug/L	1.0	0.13	1	10/23/25 09:34	11/06/25 10:12	7440-38-2	
Cadmium	**<0.062**	ug/L	0.50	0.062	1	10/23/25 09:34	11/06/25 10:12	7440-43-9	
Chromium	**<0.34**	ug/L	1.0	0.34	1	10/23/25 09:34	11/06/25 10:12	7440-47-3	
Selenium	**<0.19**	ug/L	1.0	0.19	1	10/23/25 09:34	11/06/25 10:12	7782-49-2	
Thallium	**<0.11**	ug/L	1.0	0.11	1	10/23/25 09:34	11/06/25 10:12	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Kansas City								
Mercury	**<0.17**	ug/L	0.20	0.17	1	11/10/25 14:04	11/11/25 09:37	7439-97-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Salina								
Chloride	**5.3**	mg/L	1.0	0.18	1		11/01/25 13:46	16887-00-6	
Fluoride	**0.075J**	mg/L	0.10	0.040	1		11/01/25 13:46	16984-48-8	
Sulfate	**57.7**	mg/L	5.0	0.48	5		11/01/25 20:54	14808-79-8	
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Kansas City								
Alkalinity, Total as CaCO3	**575**	mg/L	20.0	10.5	1		11/04/25 21:32		
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City								
Total Dissolved Solids	**660**	mg/L	13.3	13.3	1		10/28/25 10:56		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA-CA
Pace Project No.: 60484431

Sample: L-BMW-2S **Lab ID: 60484431014** Collected: 10/21/25 09:05 Received: 10/22/25 08:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City								
Barium	**254**	ug/L	5.0	0.75	1	10/23/25 09:34	11/11/25 10:34	7440-39-3	
Beryllium	**<0.29**	ug/L	1.0	0.29	1	10/23/25 09:34	11/11/25 10:34	7440-41-7	
Boron	**51.5J**	ug/L	100	33.2	1	10/23/25 09:34	11/11/25 10:34	7440-42-8	
Calcium	**130000**	ug/L	200	45.3	1	10/23/25 09:34	11/11/25 10:34	7440-70-2	
Cobalt	**<0.97**	ug/L	5.0	0.97	1	10/23/25 09:34	11/11/25 10:34	7440-48-4	
Iron	**36.3J**	ug/L	50.0	15.4	1	10/23/25 09:34	11/11/25 10:34	7439-89-6	
Lead	**<3.3**	ug/L	10.0	3.3	1	10/23/25 09:34	11/11/25 10:34	7439-92-1	
Lithium	**19.7**	ug/L	10.0	1.8	1	10/23/25 09:34	11/11/25 10:34	7439-93-2	
Magnesium	**19300**	ug/L	50.0	21.1	1	10/23/25 09:34	11/11/25 10:34	7439-95-4	
Manganese	**4.0J**	ug/L	5.0	0.42	1	10/23/25 09:34	11/11/25 10:34	7439-96-5	
Molybdenum	**2.0J**	ug/L	20.0	0.78	1	10/23/25 09:34	11/11/25 10:34	7439-98-7	
Potassium	**5390**	ug/L	500	45.2	1	10/23/25 09:34	11/11/25 10:34	7440-09-7	
Sodium	**4280**	ug/L	500	31.8	1	10/23/25 09:34	11/11/25 10:34	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Antimony	**0.21J**	ug/L	1.0	0.12	1	10/23/25 09:34	11/06/25 10:15	7440-36-0	
Arsenic	**0.40J**	ug/L	1.0	0.13	1	10/23/25 09:34	11/06/25 10:15	7440-38-2	
Cadmium	**<0.062**	ug/L	0.50	0.062	1	10/23/25 09:34	11/06/25 10:15	7440-43-9	
Chromium	**0.47J**	ug/L	1.0	0.34	1	10/23/25 09:34	11/06/25 10:15	7440-47-3	
Selenium	**2.8**	ug/L	1.0	0.19	1	10/23/25 09:34	11/06/25 10:15	7782-49-2	
Thallium	**<0.11**	ug/L	1.0	0.11	1	10/23/25 09:34	11/06/25 10:15	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Kansas City								
Mercury	**<0.17**	ug/L	0.20	0.17	1	11/10/25 14:04	11/11/25 09:39	7439-97-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Salina								
Chloride	**1.4**	mg/L	1.0	0.18	1		11/01/25 13:58	16887-00-6	
Fluoride	**0.14**	mg/L	0.10	0.040	1		11/01/25 13:58	16984-48-8	
Sulfate	**13.4**	mg/L	1.0	0.096	1		11/01/25 13:58	14808-79-8	
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Kansas City								
Alkalinity, Total as CaCO3	**378**	mg/L	20.0	10.5	1		11/04/25 21:39		
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City								
Total Dissolved Solids	**466**	mg/L	10.0	10.0	1		10/28/25 10:56		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA-CA
Pace Project No.: 60484431

Sample: L-LMW-1S **Lab ID: 60484431001** Collected: 10/17/25 11:45 Received: 10/18/25 08:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City								
Barium	**133**	ug/L	5.0	0.75	1	10/20/25 13:33	10/29/25 15:58	7440-39-3	
Beryllium	**<0.29**	ug/L	1.0	0.29	1	10/20/25 13:33	10/29/25 15:58	7440-41-7	
Boron	**485**	ug/L	100	33.2	1	10/20/25 13:33	10/29/25 15:58	7440-42-8	
Calcium	**82000**	ug/L	200	45.3	1	10/20/25 13:33	10/29/25 15:58	7440-70-2	
Cobalt	**<0.97**	ug/L	5.0	0.97	1	10/20/25 13:33	10/29/25 15:58	7440-48-4	
Iron	**219**	ug/L	50.0	15.4	1	10/20/25 13:33	10/29/25 15:58	7439-89-6	
Lead	**<3.3**	ug/L	10.0	3.3	1	10/20/25 13:33	10/29/25 15:58	7439-92-1	
Lithium	**8.0J**	ug/L	10.0	1.8	1	10/20/25 13:33	10/29/25 15:58	7439-93-2	
Magnesium	**13100**	ug/L	50.0	21.1	1	10/20/25 13:33	10/29/25 15:58	7439-95-4	
Manganese	**324**	ug/L	5.0	0.42	1	10/20/25 13:33	10/29/25 15:58	7439-96-5	
Molybdenum	**3.5J**	ug/L	20.0	0.78	1	10/20/25 13:33	10/29/25 15:58	7439-98-7	
Potassium	**3030**	ug/L	500	45.2	1	10/20/25 13:33	10/29/25 15:58	7440-09-7	
Sodium	**5980**	ug/L	500	31.8	1	10/20/25 13:33	10/29/25 15:58	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Antimony	**<0.12**	ug/L	1.0	0.12	1	10/20/25 13:33	10/21/25 13:04	7440-36-0	
Arsenic	**1.8**	ug/L	1.0	0.13	1	10/20/25 13:33	10/21/25 13:04	7440-38-2	
Cadmium	**<0.062**	ug/L	0.50	0.062	1	10/20/25 13:33	10/21/25 13:04	7440-43-9	
Chromium	**<0.34**	ug/L	1.0	0.34	1	10/20/25 13:33	10/21/25 13:04	7440-47-3	
Selenium	**1.6**	ug/L	1.0	0.19	1	10/20/25 13:33	10/21/25 13:04	7782-49-2	
Thallium	**<0.11**	ug/L	1.0	0.11	1	10/20/25 13:33	10/21/25 13:04	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Kansas City								
Mercury	**<0.13**	ug/L	0.20	0.13	1	11/07/25 14:00	11/10/25 09:39	7439-97-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Salina								
Chloride	**2.2**	mg/L	1.0	0.18	1		11/01/25 11:05	16887-00-6	
Fluoride	**0.25**	mg/L	0.10	0.040	1		11/01/25 11:05	16984-48-8	
Sulfate	**23.8**	mg/L	2.0	0.19	2		11/01/25 17:38	14808-79-8	
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Kansas City								
Alkalinity, Total as CaCO3	**246**	mg/L	20.0	10.5	1		10/30/25 16:53		
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City								
Total Dissolved Solids	**306**	mg/L	10.0	10.0	1		10/23/25 11:00		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA-CA
Pace Project No.: 60484431

Sample: L-LMW-7S **Lab ID: 60484431002** Collected: 10/17/25 12:20 Received: 10/18/25 08:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City								
Barium	**226**	ug/L	5.0	0.75	1	10/20/25 13:33	10/29/25 16:00	7440-39-3	
Beryllium	**<0.29**	ug/L	1.0	0.29	1	10/20/25 13:33	10/29/25 16:00	7440-41-7	
Boron	**2910**	ug/L	100	33.2	1	10/20/25 13:33	10/29/25 16:00	7440-42-8	
Calcium	**175000**	ug/L	200	45.3	1	10/20/25 13:33	10/29/25 16:00	7440-70-2	
Cobalt	**3.0J**	ug/L	5.0	0.97	1	10/20/25 13:33	10/29/25 16:00	7440-48-4	
Iron	**1830**	ug/L	50.0	15.4	1	10/20/25 13:33	10/29/25 16:00	7439-89-6	
Lead	**<3.3**	ug/L	10.0	3.3	1	10/20/25 13:33	10/29/25 16:00	7439-92-1	
Lithium	**44.2**	ug/L	10.0	1.8	1	10/20/25 13:33	10/29/25 16:00	7439-93-2	
Magnesium	**33100**	ug/L	50.0	21.1	1	10/20/25 13:33	10/29/25 16:00	7439-95-4	
Manganese	**1070**	ug/L	5.0	0.42	1	10/20/25 13:33	10/29/25 16:00	7439-96-5	
Molybdenum	**56.6**	ug/L	20.0	0.78	1	10/20/25 13:33	10/29/25 16:00	7439-98-7	
Potassium	**6980**	ug/L	500	45.2	1	10/20/25 13:33	10/29/25 16:00	7440-09-7	
Sodium	**30500**	ug/L	500	31.8	1	10/20/25 13:33	10/29/25 16:00	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Antimony	**<0.12**	ug/L	1.0	0.12	1	10/20/25 13:33	10/21/25 13:08	7440-36-0	
Arsenic	**5.5**	ug/L	1.0	0.13	1	10/20/25 13:33	10/21/25 13:08	7440-38-2	
Cadmium	**0.080J**	ug/L	0.50	0.062	1	10/20/25 13:33	10/21/25 13:08	7440-43-9	
Chromium	**<0.34**	ug/L	1.0	0.34	1	10/20/25 13:33	10/21/25 13:08	7440-47-3	
Selenium	**3.2**	ug/L	1.0	0.19	1	10/20/25 13:33	10/21/25 13:08	7782-49-2	
Thallium	**<0.11**	ug/L	1.0	0.11	1	10/20/25 13:33	10/21/25 13:08	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Kansas City								
Mercury	**<0.13**	ug/L	0.20	0.13	1	11/07/25 14:00	11/10/25 09:42	7439-97-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Salina								
Chloride	**6.6**	mg/L	1.0	0.18	1		11/01/25 11:18	16887-00-6	
Fluoride	**0.15**	mg/L	0.10	0.040	1		11/01/25 11:18	16984-48-8	
Sulfate	**86.5**	mg/L	10.0	0.96	10		11/01/25 17:50	14808-79-8	
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Kansas City								
Alkalinity, Total as CaCO3	**556**	mg/L	20.0	10.5	1		10/30/25 16:53		
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City								
Total Dissolved Solids	**687**	mg/L	13.3	13.3	1		10/23/25 11:00		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA-CA
Pace Project No.: 60484431

Sample: L-LMW-8S **Lab ID: 60484431003** Collected: 10/17/25 12:41 Received: 10/18/25 08:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City								
Barium	**189**	ug/L	5.0	0.75	1	10/20/25 13:33	10/29/25 16:01	7440-39-3	
Beryllium	**<0.29**	ug/L	1.0	0.29	1	10/20/25 13:33	10/29/25 16:01	7440-41-7	
Boron	**287**	ug/L	100	33.2	1	10/20/25 13:33	10/29/25 16:01	7440-42-8	
Calcium	**75000**	ug/L	200	45.3	1	10/20/25 13:33	10/29/25 16:01	7440-70-2	
Cobalt	**<0.97**	ug/L	5.0	0.97	1	10/20/25 13:33	10/29/25 16:01	7440-48-4	
Iron	**142**	ug/L	50.0	15.4	1	10/20/25 13:33	10/29/25 16:01	7439-89-6	
Lead	**<3.3**	ug/L	10.0	3.3	1	10/20/25 13:33	10/29/25 16:01	7439-92-1	
Lithium	**14.6**	ug/L	10.0	1.8	1	10/20/25 13:33	10/29/25 16:01	7439-93-2	
Magnesium	**11800**	ug/L	50.0	21.1	1	10/20/25 13:33	10/29/25 16:01	7439-95-4	
Manganese	**12.8**	ug/L	5.0	0.42	1	10/20/25 13:33	10/29/25 16:01	7439-96-5	
Molybdenum	**45.7**	ug/L	20.0	0.78	1	10/20/25 13:33	10/29/25 16:01	7439-98-7	
Potassium	**3530**	ug/L	500	45.2	1	10/20/25 13:33	10/29/25 16:01	7440-09-7	
Sodium	**14100**	ug/L	500	31.8	1	10/20/25 13:33	10/29/25 16:01	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Antimony	**<0.12**	ug/L	1.0	0.12	1	10/20/25 13:33	10/21/25 13:11	7440-36-0	
Arsenic	**1.6**	ug/L	1.0	0.13	1	10/20/25 13:33	10/21/25 13:11	7440-38-2	
Cadmium	**<0.062**	ug/L	0.50	0.062	1	10/20/25 13:33	10/21/25 13:11	7440-43-9	
Chromium	**<0.34**	ug/L	1.0	0.34	1	10/20/25 13:33	10/21/25 13:11	7440-47-3	
Selenium	**2.3**	ug/L	1.0	0.19	1	10/20/25 13:33	10/21/25 13:11	7782-49-2	
Thallium	**<0.11**	ug/L	1.0	0.11	1	10/20/25 13:33	10/21/25 13:11	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Kansas City								
Mercury	**<0.13**	ug/L	0.20	0.13	1	11/07/25 14:00	11/10/25 09:44	7439-97-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Salina								
Chloride	**0.78J**	mg/L	1.0	0.18	1		11/01/25 11:30	16887-00-6	
Fluoride	**0.38**	mg/L	0.10	0.040	1		11/01/25 11:30	16984-48-8	
Sulfate	**19.9**	mg/L	1.0	0.096	1		11/01/25 11:30	14808-79-8	
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Kansas City								
Alkalinity, Total as CaCO3	**254**	mg/L	20.0	10.5	1		10/30/25 16:53		
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City								
Total Dissolved Solids	**310**	mg/L	10.0	10.0	1		10/23/25 11:00		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA-CA
Pace Project No.: 60484431

Sample: L-LMW-2S **Lab ID: 60484431015** Collected: 10/20/25 15:10 Received: 10/22/25 08:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City								
Barium	**50.4**	ug/L	5.0	0.75	1	10/23/25 09:34	11/11/25 10:36	7440-39-3	
Beryllium	**<0.29**	ug/L	1.0	0.29	1	10/23/25 09:34	11/11/25 10:36	7440-41-7	
Boron	**3980**	ug/L	100	33.2	1	10/23/25 09:34	11/11/25 10:36	7440-42-8	
Calcium	**77000**	ug/L	200	45.3	1	10/23/25 09:34	11/11/25 10:36	7440-70-2	
Cobalt	**<0.97**	ug/L	5.0	0.97	1	10/23/25 09:34	11/11/25 10:36	7440-48-4	
Iron	**<15.4**	ug/L	50.0	15.4	1	10/23/25 09:34	11/11/25 10:36	7439-89-6	
Lead	**<3.3**	ug/L	10.0	3.3	1	10/23/25 09:34	11/11/25 10:36	7439-92-1	
Lithium	**14.3**	ug/L	10.0	1.8	1	10/23/25 09:34	11/11/25 10:36	7439-93-2	
Magnesium	**106**	ug/L	50.0	21.1	1	10/23/25 09:34	11/11/25 10:36	7439-95-4	
Manganese	**1.5J**	ug/L	5.0	0.42	1	10/23/25 09:34	11/11/25 10:36	7439-96-5	
Molybdenum	**236**	ug/L	20.0	0.78	1	10/23/25 09:34	11/11/25 10:36	7439-98-7	
Potassium	**9650**	ug/L	500	45.2	1	10/23/25 09:34	11/11/25 10:36	7440-09-7	
Sodium	**68900**	ug/L	500	31.8	1	10/23/25 09:34	11/11/25 10:36	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Antimony	**<0.12**	ug/L	1.0	0.12	1	10/23/25 09:34	11/06/25 10:21	7440-36-0	
Arsenic	**42.5**	ug/L	1.0	0.13	1	10/23/25 09:34	11/06/25 10:21	7440-38-2	
Cadmium	**0.077J**	ug/L	0.50	0.062	1	10/23/25 09:34	11/06/25 10:21	7440-43-9	
Chromium	**<0.34**	ug/L	1.0	0.34	1	10/23/25 09:34	11/06/25 10:21	7440-47-3	
Selenium	**0.20J**	ug/L	1.0	0.19	1	10/23/25 09:34	11/06/25 10:21	7782-49-2	
Thallium	**<0.11**	ug/L	1.0	0.11	1	10/23/25 09:34	11/06/25 10:21	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Kansas City								
Mercury	**<0.17**	ug/L	0.20	0.17	1	11/10/25 14:04	11/11/25 09:41	7439-97-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Salina								
Chloride	**14.5**	mg/L	1.0	0.18	1		11/01/25 14:10	16887-00-6	
Fluoride	**0.10**	mg/L	0.10	0.040	1		11/01/25 14:10	16984-48-8	
Sulfate	**302**	mg/L	50.0	4.8	50		11/01/25 21:07	14808-79-8	
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Kansas City								
Alkalinity, Total as CaCO3	**44.0**	mg/L	20.0	10.5	1		11/03/25 14:41		
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City								
Total Dissolved Solids	**553**	mg/L	10.0	10.0	1		10/27/25 10:51		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA-CA
Pace Project No.: 60484431

Sample: L-LMW-4S **Lab ID: 60484431032** Collected: 10/22/25 09:48 Received: 10/23/25 08:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City								
Barium	**187**	ug/L	5.0	0.64	1	10/24/25 09:33	11/03/25 17:53	7440-39-3	
Beryllium	**<0.15**	ug/L	1.0	0.15	1	10/24/25 09:33	11/03/25 17:53	7440-41-7	
Boron	**3750**	ug/L	100	7.3	1	10/24/25 09:33	11/03/25 17:53	7440-42-8	
Calcium	**162000**	ug/L	200	45.3	1	10/24/25 09:33	11/04/25 11:34	7440-70-2	
Cobalt	**2.6J**	ug/L	5.0	1.4	1	10/24/25 09:33	11/03/25 17:53	7440-48-4	
Iron	**7850**	ug/L	50.0	8.7	1	10/24/25 09:33	11/03/25 17:53	7439-89-6	
Lead	**<3.4**	ug/L	10.0	3.4	1	10/24/25 09:33	11/03/25 17:53	7439-92-1	
Lithium	**32.7**	ug/L	10.0	2.8	1	10/24/25 09:33	11/03/25 17:53	7439-93-2	
Magnesium	**26100**	ug/L	50.0	21.1	1	10/24/25 09:33	11/04/25 11:34	7439-95-4	
Manganese	**1660**	ug/L	5.0	0.52	1	10/24/25 09:33	11/03/25 17:53	7439-96-5	
Molybdenum	**70.8**	ug/L	20.0	2.1	1	10/24/25 09:33	11/03/25 17:53	7439-98-7	
Potassium	**6960**	ug/L	500	66.6	1	10/24/25 09:33	11/03/25 17:53	7440-09-7	
Sodium	**65000**	ug/L	500	31.8	1	10/24/25 09:33	11/04/25 11:34	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Antimony	**<0.12**	ug/L	1.0	0.12	1	10/28/25 12:55	10/30/25 12:17	7440-36-0	
Arsenic	**20.6**	ug/L	1.0	0.13	1	10/28/25 12:55	10/30/25 12:17	7440-38-2	
Cadmium	**<0.062**	ug/L	0.50	0.062	1	10/28/25 12:55	10/30/25 12:17	7440-43-9	
Chromium	**<0.34**	ug/L	1.0	0.34	1	10/28/25 12:55	10/30/25 12:17	7440-47-3	
Selenium	**0.32J**	ug/L	1.0	0.19	1	10/28/25 12:55	10/30/25 12:17	7782-49-2	
Thallium	**<0.11**	ug/L	1.0	0.11	1	10/28/25 12:55	10/30/25 12:17	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Kansas City								
Mercury	**<0.17**	ug/L	0.20	0.17	1	11/10/25 14:04	11/11/25 11:15	7439-97-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Salina								
Chloride	**67.0**	mg/L	10.0	1.8	10		11/02/25 17:02	16887-00-6	
Fluoride	**0.15**	mg/L	0.10	0.040	1		11/02/25 13:20	16984-48-8	
Sulfate	**114**	mg/L	10.0	0.96	10		11/02/25 17:02	14808-79-8	
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Kansas City								
Alkalinity, Total as CaCO3	**464**	mg/L	20.0	10.5	1		11/05/25 22:49		
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City								
Total Dissolved Solids	**735**	mg/L	13.3	13.3	1		10/29/25 09:12		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: AMEREN LCPA-CA
Pace Project No.: 60484431

QC Batch: 954700
QC Batch Method: EPA 7470
Analysis Method: EPA 7470
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60484431001, 60484431002, 60484431003, 60484431004, 60484431005, 60484431006, 60484431007, 60484431008, 60484431009, 60484431012

METHOD BLANK: 3783957 Matrix: Water
Associated Lab Samples: 60484431001, 60484431002, 60484431003, 60484431004, 60484431005, 60484431006, 60484431007, 60484431008, 60484431009, 60484431012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	<0.13	0.20	0.13	11/10/25 09:35	

LABORATORY CONTROL SAMPLE: 3783958

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.3	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3783959 3783960

Parameter	Units	60484431006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	<0.13	5	5	5.0	5.6	100	111	75-125	10	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: AMEREN LCPA-CA
Pace Project No.: 60484431

QC Batch: 954904
QC Batch Method: EPA 7470
Analysis Method: EPA 7470
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60484431013, 60484431014, 60484431015, 60484431016, 60484431017, 60484431018, 60484431019, 60484431020, 60484431021, 60484431022, 60484431023, 60484431024, 60484431025, 60484431026, 60484431027, 60484431028, 60484431029

METHOD BLANK: 3784720 Matrix: Water
Associated Lab Samples: 60484431013, 60484431014, 60484431015, 60484431016, 60484431017, 60484431018, 60484431019, 60484431020, 60484431021, 60484431022, 60484431023, 60484431024, 60484431025, 60484431026, 60484431027, 60484431028, 60484431029

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	<0.17	0.20	0.17	11/11/25 09:32	

LABORATORY CONTROL SAMPLE: 3784721

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.9	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3784722 3784723

Parameter	Units	60484431021 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	<0.17	5	5	5.1	4.9	103	99	75-125	4	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: AMEREN LCPA-CA
Pace Project No.: 60484431

QC Batch: 954905
QC Batch Method: EPA 7470
Analysis Method: EPA 7470
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60484431032

METHOD BLANK: 3784724 Matrix: Water
Associated Lab Samples: 60484431032

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	<0.17	0.20	0.17	11/11/25 10:36	

LABORATORY CONTROL SAMPLE: 3784725

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.9	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3784726 3784727

Parameter	Units	60484433004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L		5	5	4.3	4.3	86	87	75-125	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3784728 3784729

Parameter	Units	60484432009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	<0.17	5	5	4.8	4.7	95	94	75-125	2	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3784730 3784731

Parameter	Units	60484583002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L		5	5	5.0	4.8	99	97	75-125	2	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: AMEREN LCPA-CA
Pace Project No.: 60484431

QC Batch: 952222
QC Batch Method: EPA 200.7
Analysis Method: EPA 200.7
Analysis Description: 200.7 Metals, Total
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60484431001, 60484431002, 60484431003, 60484431004, 60484431005, 60484431006, 60484431007, 60484431008, 60484431009

METHOD BLANK: 3774086 Matrix: Water
Associated Lab Samples: 60484431001, 60484431002, 60484431003, 60484431004, 60484431005, 60484431006, 60484431007, 60484431008, 60484431009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Barium	ug/L	<0.75	5.0	0.75	10/29/25 15:49	
Beryllium	ug/L	<0.29	1.0	0.29	10/29/25 15:49	
Boron	ug/L	<33.2	100	33.2	10/29/25 15:49	
Calcium	ug/L	<45.3	200	45.3	10/29/25 15:49	
Cobalt	ug/L	<0.97	5.0	0.97	10/29/25 15:49	
Iron	ug/L	<15.4	50.0	15.4	10/29/25 15:49	
Lead	ug/L	<3.3	10.0	3.3	10/29/25 15:49	
Lithium	ug/L	<1.8	10.0	1.8	10/29/25 15:49	
Magnesium	ug/L	<21.1	50.0	21.1	10/29/25 15:49	
Manganese	ug/L	<0.42	5.0	0.42	10/29/25 15:49	
Molybdenum	ug/L	<0.78	20.0	0.78	10/29/25 15:49	
Potassium	ug/L	<45.2	500	45.2	10/29/25 15:49	
Sodium	ug/L	<31.8	500	31.8	10/29/25 15:49	

LABORATORY CONTROL SAMPLE: 3774087

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	1000	994	99	85-115	
Beryllium	ug/L	1000	1000	100	85-115	
Boron	ug/L	1000	955	96	85-115	
Calcium	ug/L	10000	9990	100	85-115	
Cobalt	ug/L	1000	1020	102	85-115	
Iron	ug/L	10000	10300	103	85-115	
Lead	ug/L	1000	1030	103	85-115	
Lithium	ug/L	1000	1020	102	85-115	
Magnesium	ug/L	10000	9690	97	85-115	
Manganese	ug/L	1000	1010	101	85-115	
Molybdenum	ug/L	1000	1020	102	85-115	
Potassium	ug/L	10000	9960	100	85-115	
Sodium	ug/L	10000	10000	100	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3774088 3774089

Parameter	Units	60484431006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	ug/L	234	1000	1000	1230	1230	99	100	70-130	0	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: AMEREN LCPA-CA
Pace Project No.: 60484431

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3774088 3774089

Parameter	Units	60484431006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Beryllium	ug/L	0.41J	1000	1000	987	986	99	99	70-130	0	20	
Boron	ug/L	5060	1000	1000	6140	6030	108	97	70-130	2	20	
Calcium	ug/L	101000	10000	10000	113000	111000	116	96	70-130	2	20	
Cobalt	ug/L	<0.97	1000	1000	992	987	99	99	70-130	0	20	
Iron	ug/L	7470	10000	10000	17800	17800	103	103	70-130	0	20	
Lead	ug/L	<3.3	1000	1000	1010	1010	100	101	70-130	0	20	
Lithium	ug/L	31.1	1000	1000	1050	1040	102	101	70-130	1	20	
Magnesium	ug/L	21300	10000	10000	31300	31000	100	97	70-130	1	20	
Manganese	ug/L	1130	1000	1000	2140	2110	101	98	70-130	2	20	
Molybdenum	ug/L	234	1000	1000	1270	1260	104	102	70-130	1	20	
Potassium	ug/L	5360	10000	10000	15600	15400	102	100	70-130	1	20	
Sodium	ug/L	62700	10000	10000	73900	72800	112	101	70-130	1	20	

MATRIX SPIKE SAMPLE: 3774090

Parameter	Units	60484431005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	105	1000	1100	100	70-130	
Beryllium	ug/L	<0.29	1000	1000	100	70-130	
Boron	ug/L	8870	1000	9710	84	70-130	
Calcium	ug/L	115000	10000	122000	66	70-130	M1
Cobalt	ug/L	<0.97	1000	1000	100	70-130	
Iron	ug/L	7170	10000	17300	101	70-130	
Lead	ug/L	<3.3	1000	1010	101	70-130	
Lithium	ug/L	34.9	1000	1060	103	70-130	
Magnesium	ug/L	27500	10000	36700	92	70-130	
Manganese	ug/L	306	1000	1310	101	70-130	
Molybdenum	ug/L	518	1000	1560	104	70-130	
Potassium	ug/L	6900	10000	17000	101	70-130	
Sodium	ug/L	64600	10000	73400	88	70-130	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: AMEREN LCPA-CA
Pace Project No.: 60484431

QC Batch: 952613
QC Batch Method: EPA 200.7
Analysis Method: EPA 200.7
Analysis Description: 200.7 Metals, Total
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60484431012, 60484431013, 60484431014, 60484431015, 60484431016, 60484431017, 60484431018, 60484431019, 60484431020, 60484431021

METHOD BLANK: 3775499 Matrix: Water
Associated Lab Samples: 60484431012, 60484431013, 60484431014, 60484431015, 60484431016, 60484431017, 60484431018, 60484431019, 60484431020, 60484431021

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Barium	ug/L	<0.75	5.0	0.75	11/11/25 10:21	
Beryllium	ug/L	<0.29	1.0	0.29	11/11/25 10:21	
Boron	ug/L	<33.2	100	33.2	11/11/25 10:21	
Calcium	ug/L	<45.3	200	45.3	11/11/25 10:21	
Cobalt	ug/L	<0.97	5.0	0.97	11/11/25 10:21	
Iron	ug/L	<15.4	50.0	15.4	11/11/25 10:21	
Lead	ug/L	<3.3	10.0	3.3	11/11/25 10:21	
Lithium	ug/L	<1.8	10.0	1.8	11/11/25 10:21	
Magnesium	ug/L	<21.1	50.0	21.1	11/11/25 10:21	
Manganese	ug/L	<0.42	5.0	0.42	11/11/25 10:21	
Molybdenum	ug/L	<0.78	20.0	0.78	11/11/25 10:21	
Potassium	ug/L	<45.2	500	45.2	11/11/25 10:21	
Sodium	ug/L	<31.8	500	31.8	11/11/25 10:21	

LABORATORY CONTROL SAMPLE: 3775500

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	1000	993	99	85-115	
Beryllium	ug/L	1000	1000	100	85-115	
Boron	ug/L	1000	952	95	85-115	
Calcium	ug/L	10000	10000	100	85-115	
Cobalt	ug/L	1000	1010	101	85-115	
Iron	ug/L	10000	10100	101	85-115	
Lead	ug/L	1000	998	100	85-115	
Lithium	ug/L	1000	1010	101	85-115	
Magnesium	ug/L	10000	9750	97	85-115	
Manganese	ug/L	1000	999	100	85-115	
Molybdenum	ug/L	1000	1000	100	85-115	
Potassium	ug/L	10000	9860	99	85-115	
Sodium	ug/L	10000	9810	98	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3775501 3775502

Parameter	Units	60484431021 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	ug/L	150	1000	1000	1120	1160	97	101	70-130	4	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: AMEREN LCPA-CA
Pace Project No.: 60484431

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3775501 3775502

Parameter	Units	60484431021 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Beryllium	ug/L	<0.29	1000	1000	998	1030	100	103	70-130	3	20	
Boron	ug/L	1020	1000	1000	1950	2010	94	100	70-130	3	20	
Calcium	ug/L	119000	10000	10000	126000	129000	72	96	70-130	2	20	
Cobalt	ug/L	<0.97	1000	1000	982	1020	98	102	70-130	4	20	
Iron	ug/L	3800	10000	10000	13700	14200	99	104	70-130	4	20	
Lead	ug/L	<3.3	1000	1000	976	1010	98	101	70-130	3	20	
Lithium	ug/L	38.6	1000	1000	1030	1080	99	104	70-130	5	20	
Magnesium	ug/L	18400	10000	10000	27700	28200	92	97	70-130	2	20	
Manganese	ug/L	503	1000	1000	1470	1510	97	101	70-130	3	20	
Molybdenum	ug/L	66.2	1000	1000	1080	1110	101	105	70-130	3	20	
Potassium	ug/L	7250	10000	10000	16800	17500	95	103	70-130	4	20	
Sodium	ug/L	74300	10000	10000	82300	83700	80	94	70-130	2	20	

SAMPLE DUPLICATE: 3785256

Parameter	Units	60484431020 Result	Dup Result	RPD	Max RPD	Qualifiers
Barium	ug/L	1420	1430	1	20	
Beryllium	ug/L	<0.29	<0.29		20	
Boron	ug/L	51.2J	50.9J		20	
Calcium	ug/L	137000	137000	0	20	
Cobalt	ug/L	<0.97	<0.97		20	
Iron	ug/L	8570	8710	2	19	
Lead	ug/L	<3.3	<3.3		27	
Lithium	ug/L	24.8	23.3	6	20	
Magnesium	ug/L	34000	34000	0	20	
Manganese	ug/L	269	270	1	12	
Molybdenum	ug/L	1.1J	0.90J		20	
Potassium	ug/L	4250	4200	1	20	
Sodium	ug/L	10600	10600	0	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: AMEREN LCPA-CA
Pace Project No.: 60484431

QC Batch: 952617
QC Batch Method: EPA 200.7
Analysis Method: EPA 200.7
Analysis Description: 200.7 Metals, Total
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60484431022, 60484431023, 60484431024, 60484431025, 60484431026, 60484431027, 60484431028, 60484431029

METHOD BLANK: 3775516 Matrix: Water
Associated Lab Samples: 60484431022, 60484431023, 60484431024, 60484431025, 60484431026, 60484431027, 60484431028, 60484431029

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Barium	ug/L	<0.75	5.0	0.75	11/11/25 11:20	
Beryllium	ug/L	<0.29	1.0	0.29	11/11/25 11:20	
Boron	ug/L	<33.2	100	33.2	11/11/25 11:20	
Calcium	ug/L	<45.3	200	45.3	11/11/25 11:20	
Cobalt	ug/L	<0.97	5.0	0.97	11/11/25 11:20	
Iron	ug/L	<15.4	50.0	15.4	11/11/25 11:20	
Lead	ug/L	<3.3	10.0	3.3	11/11/25 11:20	
Lithium	ug/L	<1.8	10.0	1.8	11/11/25 11:20	
Magnesium	ug/L	<21.1	50.0	21.1	11/11/25 11:20	
Manganese	ug/L	<0.42	5.0	0.42	11/11/25 11:20	
Molybdenum	ug/L	<0.78	20.0	0.78	11/11/25 11:20	
Potassium	ug/L	<45.2	500	45.2	11/11/25 11:20	
Sodium	ug/L	<31.8	500	31.8	11/11/25 11:20	

LABORATORY CONTROL SAMPLE: 3775517

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	1000	1000	100	85-115	
Beryllium	ug/L	1000	1010	101	85-115	
Boron	ug/L	1000	953	95	85-115	
Calcium	ug/L	10000	10200	102	85-115	
Cobalt	ug/L	1000	996	100	85-115	
Iron	ug/L	10000	10000	100	85-115	
Lead	ug/L	1000	1000	100	85-115	
Lithium	ug/L	1000	995	100	85-115	
Magnesium	ug/L	10000	9910	99	85-115	
Manganese	ug/L	1000	993	99	85-115	
Molybdenum	ug/L	1000	1010	101	85-115	
Potassium	ug/L	10000	9850	99	85-115	
Sodium	ug/L	10000	9890	99	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3775518 3775519

Parameter	Units	60484431022 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	ug/L	125	1000	1000	1110	1110	99	99	70-130	0	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: AMEREN LCPA-CA
Pace Project No.: 60484431

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3775518 3775519

Parameter	Units	60484431022 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Beryllium	ug/L	<0.29	1000	1000	1010	1010	101	101	70-130	0	20	
Boron	ug/L	1320	1000	1000	2230	2220	91	90	70-130	1	20	
Calcium	ug/L	105000	10000	10000	111000	110000	60	50	70-130	1	20	M1
Cobalt	ug/L	<0.97	1000	1000	978	974	98	97	70-130	0	20	
Iron	ug/L	3860	10000	10000	13800	13600	99	97	70-130	1	20	
Lead	ug/L	<3.3	1000	1000	978	978	98	98	70-130	0	20	
Lithium	ug/L	38.6	1000	1000	1030	1020	99	99	70-130	0	20	
Magnesium	ug/L	18300	10000	10000	27700	27300	94	90	70-130	1	20	
Manganese	ug/L	351	1000	1000	1310	1310	96	96	70-130	0	20	
Molybdenum	ug/L	115	1000	1000	1140	1130	102	102	70-130	1	20	
Potassium	ug/L	5950	10000	10000	15600	15600	96	97	70-130	0	20	
Sodium	ug/L	59000	10000	10000	66800	66200	78	72	70-130	1	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: AMEREN LCPA-CA
Pace Project No.: 60484431

QC Batch: 952811
QC Batch Method: EPA 200.7
Analysis Method: EPA 200.7
Analysis Description: 200.7 Metals, Total
Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60484431032

METHOD BLANK: 3776415 Matrix: Water
Associated Lab Samples: 60484431032

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Barium	ug/L	0.90J	5.0	0.64	11/03/25 17:08	
Beryllium	ug/L	<0.15	1.0	0.15	11/03/25 17:08	
Boron	ug/L	<7.3	100	7.3	11/03/25 17:08	
Calcium	ug/L	<45.3	200	45.3	11/03/25 17:08	
Cobalt	ug/L	<1.4	5.0	1.4	11/03/25 17:08	
Iron	ug/L	<8.7	50.0	8.7	11/03/25 17:08	
Lead	ug/L	<3.4	10.0	3.4	11/03/25 17:08	
Lithium	ug/L	<2.8	10.0	2.8	11/03/25 17:08	
Magnesium	ug/L	<21.1	50.0	21.1	11/03/25 17:08	
Manganese	ug/L	<0.52	5.0	0.52	11/03/25 17:08	
Molybdenum	ug/L	<2.1	20.0	2.1	11/03/25 17:08	
Potassium	ug/L	<66.6	500	66.6	11/03/25 17:08	
Sodium	ug/L	<31.8	500	31.8	11/03/25 17:08	

LABORATORY CONTROL SAMPLE: 3776416

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	1000	1030	103	85-115	
Beryllium	ug/L	1000	1040	104	85-115	
Boron	ug/L	1000	977	98	85-115	
Calcium	ug/L	10000	10400	104	85-115	
Cobalt	ug/L	1000	1050	105	85-115	
Iron	ug/L	10000	10500	105	85-115	
Lead	ug/L	1000	1030	103	85-115	
Lithium	ug/L	1000	989	99	85-115	
Magnesium	ug/L	10000	10300	103	85-115	
Manganese	ug/L	1000	1030	103	85-115	
Molybdenum	ug/L	1000	1030	103	85-115	
Potassium	ug/L	10000	10000	100	85-115	
Sodium	ug/L	10000	10100	101	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3776417 3776418

Parameter	Units	60484550001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	ug/L	17.4	1000	1000	1050	1080	104	106	70-130	2	20	
Beryllium	ug/L	1.2	1000	1000	1060	1080	106	107	70-130	2	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: AMEREN LCPA-CA
Pace Project No.: 60484431

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3776417 3776418

Parameter	Units	60484550001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Boron	ug/L	547	1000	1000	1560	1600	102	105	70-130	2	20	
Calcium	ug/L	68000	10000	10000	80100	80500	121	125	70-130	0	20	
Cobalt	ug/L	ND	1000	1000	1040	1060	103	106	70-130	2	20	
Iron	ug/L	ND	10000	10000	10600	10900	106	109	70-130	3	20	
Lead	ug/L	ND	1000	1000	1010	1030	101	103	70-130	2	20	
Lithium	ug/L	33.1	1000	1000	1140	1160	111	113	70-130	2	20	
Magnesium	ug/L	15500	10000	10000	26100	26200	106	107	70-130	0	20	
Manganese	ug/L	6.6	1000	1000	1030	1050	102	104	70-130	2	20	
Molybdenum	ug/L	ND	1000	1000	1070	1090	106	108	70-130	2	20	
Potassium	ug/L	58400	10000	10000	71900	71600	135	132	70-130	0	20	M1
Sodium	ug/L	769000	10000	10000	790000	791000	217	226	70-130	0	20	M1

MATRIX SPIKE SAMPLE: 3776419

Parameter	Units	60484621001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	142	1000	1190	105	70-130	
Beryllium	ug/L	ND	1000	1040	104	70-130	
Boron	ug/L	ND	1000	1010	97	70-130	
Calcium	ug/L	80000	10000	86900	69	70-130	M1
Cobalt	ug/L	ND	1000	1040	104	70-130	
Iron	ug/L	2850	10000	13300	105	70-130	
Lead	ug/L	ND	1000	1030	103	70-130	
Lithium	ug/L	ND	1000	1050	105	70-130	
Magnesium	ug/L	13100	10000	22200	91	70-130	
Manganese	ug/L	79.9	1000	1100	102	70-130	
Molybdenum	ug/L	ND	1000	1050	105	70-130	
Potassium	ug/L	63600	10000	73000	94	70-130	
Sodium	ug/L	112000	10000	117000	44	70-130	M1

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: AMEREN LCPA-CA
Pace Project No.: 60484431

QC Batch: 952225
QC Batch Method: EPA 200.8
Analysis Method: EPA 200.8
Analysis Description: 200.8 MET
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60484431001, 60484431002, 60484431003, 60484431004, 60484431005, 60484431006, 60484431007, 60484431008, 60484431009

METHOD BLANK: 3774101 Matrix: Water
Associated Lab Samples: 60484431001, 60484431002, 60484431003, 60484431004, 60484431005, 60484431006, 60484431007, 60484431008, 60484431009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	ug/L	<0.12	1.0	0.12	10/21/25 12:43	
Arsenic	ug/L	<0.13	1.0	0.13	10/21/25 12:43	
Cadmium	ug/L	<0.062	0.50	0.062	10/21/25 12:43	
Chromium	ug/L	<0.34	1.0	0.34	10/21/25 12:43	
Selenium	ug/L	<0.19	1.0	0.19	10/21/25 12:43	
Thallium	ug/L	<0.11	1.0	0.11	10/21/25 12:43	

LABORATORY CONTROL SAMPLE: 3774102

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	40	38.5	96	85-115	
Arsenic	ug/L	40	40.7	102	85-115	
Cadmium	ug/L	40	40.9	102	85-115	
Chromium	ug/L	40	40.8	102	85-115	
Selenium	ug/L	40	42.0	105	85-115	
Thallium	ug/L	40	38.7	97	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3774103 3774104

Parameter	Units	60484431006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	ug/L	<0.12	40	40	39.5	39.0	99	97	70-130	1	20	
Arsenic	ug/L	0.38J	40	40	41.9	41.2	104	102	70-130	2	20	
Cadmium	ug/L	0.078J	40	40	40.3	39.7	100	99	70-130	1	20	
Chromium	ug/L	<0.34	40	40	40.9	40.2	102	100	70-130	2	20	
Selenium	ug/L	<0.19	40	40	39.7	40.0	99	100	70-130	1	20	
Thallium	ug/L	<0.11	40	40	41.7	40.8	104	102	70-130	2	20	

MATRIX SPIKE SAMPLE: 3774105

Parameter	Units	60484432002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	<0.12	40	38.4	96	70-130	
Arsenic	ug/L	11.8	40	52.1	101	70-130	
Cadmium	ug/L	<0.062	40	40.2	101	70-130	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: AMEREN LCPA-CA
Pace Project No.: 60484431

MATRIX SPIKE SAMPLE: 3774105

Parameter	Units	60484432002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chromium	ug/L	<0.34	40	40.4	101	70-130	
Selenium	ug/L	<0.19	40	40.3	100	70-130	
Thallium	ug/L	<0.11	40	39.7	99	70-130	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: AMEREN LCPA-CA
Pace Project No.: 60484431

QC Batch: 952614
QC Batch Method: EPA 200.8
Analysis Method: EPA 200.8
Analysis Description: 200.8 MET
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60484431012, 60484431013, 60484431014, 60484431015, 60484431016, 60484431017, 60484431018, 60484431019, 60484431020, 60484431021

METHOD BLANK: 3775504 Matrix: Water
Associated Lab Samples: 60484431012, 60484431013, 60484431014, 60484431015, 60484431016, 60484431017, 60484431018, 60484431019, 60484431020, 60484431021

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	ug/L	<0.12	1.0	0.12	11/06/25 09:53	
Arsenic	ug/L	<0.13	1.0	0.13	11/06/25 09:53	
Cadmium	ug/L	<0.062	0.50	0.062	11/06/25 09:53	
Chromium	ug/L	<0.34	1.0	0.34	11/06/25 09:53	
Selenium	ug/L	<0.19	1.0	0.19	11/06/25 09:53	
Thallium	ug/L	<0.11	1.0	0.11	11/06/25 09:53	

LABORATORY CONTROL SAMPLE: 3775505

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	40	38.0	95	85-115	
Arsenic	ug/L	40	38.6	96	85-115	
Cadmium	ug/L	40	39.5	99	85-115	
Chromium	ug/L	40	39.9	100	85-115	
Selenium	ug/L	40	38.5	96	85-115	
Thallium	ug/L	40	38.6	96	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3775506 3775507

Parameter	Units	60484431021 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	ug/L	<0.12	40	40	39.7	38.9	99	97	70-130	2	20	
Arsenic	ug/L	0.42J	40	40	39.3	38.6	97	95	70-130	2	20	
Cadmium	ug/L	<0.062	40	40	38.9	38.4	97	96	70-130	1	20	
Chromium	ug/L	<0.34	40	40	39.4	39.6	98	98	70-130	0	20	
Selenium	ug/L	<0.19	40	40	36.4	36.6	91	91	70-130	1	20	
Thallium	ug/L	<0.11	40	40	41.0	40.6	102	101	70-130	1	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: AMEREN LCPA-CA
Pace Project No.: 60484431

QC Batch: 952619
QC Batch Method: EPA 200.8
Analysis Method: EPA 200.8
Analysis Description: 200.8 MET
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60484431022, 60484431023, 60484431024, 60484431025, 60484431026, 60484431027, 60484431028, 60484431029

METHOD BLANK: 3775520 Matrix: Water
Associated Lab Samples: 60484431022, 60484431023, 60484431024, 60484431025, 60484431026, 60484431027, 60484431028, 60484431029

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	ug/L	<0.12	1.0	0.12	11/06/25 10:44	
Arsenic	ug/L	<0.13	1.0	0.13	11/06/25 10:44	
Cadmium	ug/L	<0.062	0.50	0.062	11/06/25 10:44	
Chromium	ug/L	<0.34	1.0	0.34	11/06/25 10:44	
Selenium	ug/L	<0.19	1.0	0.19	11/06/25 10:44	
Thallium	ug/L	<0.11	1.0	0.11	11/06/25 10:44	

LABORATORY CONTROL SAMPLE: 3775521

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	40	39.5	99	85-115	
Arsenic	ug/L	40	37.5	94	85-115	
Cadmium	ug/L	40	40.3	101	85-115	
Chromium	ug/L	40	39.1	98	85-115	
Selenium	ug/L	40	38.1	95	85-115	
Thallium	ug/L	40	38.3	96	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3775522 3775523

Parameter	Units	60484431023 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	ug/L	<0.12	40	40	39.6	39.1	99	98	70-130	1	20	
Arsenic	ug/L	0.99J	40	40	39.1	38.9	95	95	70-130	0	20	
Cadmium	ug/L	<0.062	40	40	39.1	38.8	98	97	70-130	1	20	
Chromium	ug/L	<0.34	40	40	39.1	39.2	97	97	70-130	0	20	
Selenium	ug/L	1.4	40	40	38.6	38.7	93	93	70-130	0	20	
Thallium	ug/L	<0.11	40	40	41.5	41.3	104	103	70-130	0	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: AMEREN LCPA-CA
Pace Project No.: 60484431

QC Batch: 953224
QC Batch Method: EPA 200.8
Analysis Method: EPA 200.8
Analysis Description: 200.8 MET
Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60484431032

METHOD BLANK: 3778023 Matrix: Water
Associated Lab Samples: 60484431032

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	ug/L	<0.12	1.0	0.12	10/30/25 11:57	
Arsenic	ug/L	<0.13	1.0	0.13	10/30/25 11:57	
Cadmium	ug/L	<0.062	0.50	0.062	10/30/25 11:57	
Chromium	ug/L	<0.34	1.0	0.34	10/30/25 11:57	
Selenium	ug/L	<0.19	1.0	0.19	10/30/25 11:57	
Thallium	ug/L	<0.11	1.0	0.11	10/30/25 11:57	

LABORATORY CONTROL SAMPLE: 3778024

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	40	39.4	99	85-115	
Arsenic	ug/L	40	40.2	100	85-115	
Cadmium	ug/L	40	41.0	102	85-115	
Chromium	ug/L	40	41.7	104	85-115	
Selenium	ug/L	40	40.5	101	85-115	
Thallium	ug/L	40	40.7	102	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3778025 3778026

Parameter	Units	60484719001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	ug/L	ND	40	40	39.5	38.8	98	97	70-130	2	20	
Arsenic	ug/L	ND	40	40	40.1	39.5	99	98	70-130	1	20	
Cadmium	ug/L	ND	40	40	39.3	39.3	98	98	70-130	0	20	
Chromium	ug/L	ND	40	40	40.3	39.8	100	98	70-130	1	20	
Selenium	ug/L	ND	40	40	37.9	38.4	95	96	70-130	1	20	
Thallium	ug/L	ND	40	40	39.5	39.3	99	98	70-130	1	20	

MATRIX SPIKE SAMPLE: 3778027

Parameter	Units	60484431032 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	<0.12	40	39.2	98	70-130	
Arsenic	ug/L	20.6	40	60.1	99	70-130	
Cadmium	ug/L	<0.062	40	38.6	96	70-130	
Chromium	ug/L	<0.34	40	40.0	99	70-130	
Selenium	ug/L	0.32J	40	37.3	92	70-130	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: AMEREN LCPA-CA
Pace Project No.: 60484431

MATRIX SPIKE SAMPLE: 3778027

Parameter	Units	60484431032 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Thallium	ug/L	<0.11	40	39.4	99	70-130	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: AMEREN LCPA-CA
Pace Project No.: 60484431

QC Batch: 953722
QC Batch Method: EPA 300.0
Analysis Method: EPA 300.0
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Salina
Associated Lab Samples: 60484431001, 60484431002, 60484431003, 60484431004, 60484431005, 60484431006, 60484431007, 60484431008, 60484431009, 60484431013, 60484431014, 60484431015, 60484431016, 60484431017, 60484431018, 60484431019, 60484431020

METHOD BLANK: 3779885
Matrix: Water
Associated Lab Samples: 60484431001, 60484431002, 60484431003, 60484431004, 60484431005, 60484431006, 60484431007, 60484431008, 60484431009, 60484431013, 60484431014, 60484431015, 60484431016, 60484431017, 60484431018, 60484431019, 60484431020

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	<0.18	1.0	0.18	11/01/25 10:41	
Fluoride	mg/L	<0.040	0.10	0.040	11/01/25 10:41	
Sulfate	mg/L	<0.096	1.0	0.096	11/01/25 10:41	

LABORATORY CONTROL SAMPLE: 3779886

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.7	95	90-110	
Fluoride	mg/L	2.5	2.6	103	90-110	
Sulfate	mg/L	5	4.9	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3779887 3779888

Parameter	Units	60484431006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	21.0	10	10	29.8	29.2	89	83	80-120	2	15	
Fluoride	mg/L	0.23	2.5	2.5	2.7	2.7	101	100	80-120	1	15	
Sulfate	mg/L	178	100	100	274	278	97	100	80-120	1	15	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3779889 3779890

Parameter	Units	60484431020 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	4.9	5	5	9.4	9.3	90	88	80-120	1	15	
Fluoride	mg/L	0.16	2.5	2.5	2.7	2.7	100	100	80-120	1	15	
Sulfate	mg/L	17.6	10	10	27.1	26.8	94	92	80-120	1	15	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: AMEREN LCPA-CA
Pace Project No.: 60484431

QC Batch: 953723
QC Batch Method: EPA 300.0
Analysis Method: EPA 300.0
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Salina
Associated Lab Samples: 60484431021, 60484431022, 60484431023, 60484431024, 60484431025, 60484431026, 60484431027, 60484431028, 60484431029, 60484431032

METHOD BLANK: 3779891 Matrix: Water
Associated Lab Samples: 60484431021, 60484431022, 60484431023, 60484431024, 60484431025, 60484431026, 60484431027, 60484431028, 60484431029, 60484431032

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	<0.18	1.0	0.18	11/02/25 10:15	
Fluoride	mg/L	<0.040	0.10	0.040	11/02/25 10:15	
Sulfate	mg/L	<0.096	1.0	0.096	11/02/25 10:15	

LABORATORY CONTROL SAMPLE: 3779892

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.8	96	90-110	
Fluoride	mg/L	2.5	2.7	106	90-110	
Sulfate	mg/L	5	5.0	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3779893 3779894

Parameter	Units	60484431021 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	26.3	10	10	36.3	35.8	99	94	80-120	1	15	
Fluoride	mg/L	0.40	2.5	2.5	2.9	2.9	101	101	80-120	0	15	
Sulfate	mg/L	239	100	100	327	331	88	92	80-120	1	15	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: AMEREN LCPA-CA
Pace Project No.: 60484431

QC Batch: 954506
QC Batch Method: EPA 300.0
Analysis Method: EPA 300.0
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Salina

Associated Lab Samples: 60484431012

METHOD BLANK: 3783064 Matrix: Water
Associated Lab Samples: 60484431012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	<0.18	1.0	0.18	11/06/25 15:23	
Fluoride	mg/L	<0.040	0.10	0.040	11/06/25 15:23	
Sulfate	mg/L	<0.096	1.0	0.096	11/06/25 15:23	

LABORATORY CONTROL SAMPLE: 3783065

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.7	94	90-110	
Fluoride	mg/L	2.5	2.6	104	90-110	
Sulfate	mg/L	5	5.0	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3783066 3783067

Parameter	Units	60485564001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	3.3	5	5	8.1	8.1	96	96	80-120	0	15	
Fluoride	mg/L	0.11	2.5	2.5	2.7	2.7	101	102	80-120	1	15	
Sulfate	mg/L	5.4	5	5	10.4	10.4	98	99	80-120	0	15	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: AMEREN LCPA-CA
Pace Project No.: 60484431

QC Batch: 953528
QC Batch Method: SM 2320B
Analysis Method: SM 2320B
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60484431001, 60484431002, 60484431003, 60484431005, 60484431006, 60484431008, 60484431009

METHOD BLANK: 3779185 Matrix: Water
Associated Lab Samples: 60484431001, 60484431002, 60484431003, 60484431005, 60484431006, 60484431008, 60484431009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<10.5	20.0	10.5	10/30/25 16:52	

LABORATORY CONTROL SAMPLE: 3779186

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	500	502	100	90-110	

SAMPLE DUPLICATE: 3779187

Parameter	Units	60484246021 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	460	444	4	10	

SAMPLE DUPLICATE: 3779188

Parameter	Units	60484431006 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	276	570	70	10	D6

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: AMEREN LCPA-CA
Pace Project No.: 60484431

QC Batch: 953708
QC Batch Method: SM 2320B
Analysis Method: SM 2320B
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60484431004, 60484431007

METHOD BLANK: 3779855 Matrix: Water
Associated Lab Samples: 60484431004, 60484431007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<10.5	20.0	10.5	10/31/25 16:51	

LABORATORY CONTROL SAMPLE: 3779856

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	500	496	99	90-110	

SAMPLE DUPLICATE: 3779857

Parameter	Units	60484431007 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	104	102	2	10	

SAMPLE DUPLICATE: 3779858

Parameter	Units	60484583002 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	654	632	3	10	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: AMEREN LCPA-CA
Pace Project No.: 60484431

QC Batch: 953892
QC Batch Method: SM 2320B
Analysis Method: SM 2320B
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60484431015, 60484431020, 60484431021, 60484431022, 60484431023, 60484431024, 60484431025, 60484431026, 60484431027, 60484431028

METHOD BLANK: 3780864 Matrix: Water
Associated Lab Samples: 60484431015, 60484431020, 60484431021, 60484431022, 60484431023, 60484431024, 60484431025, 60484431026, 60484431027, 60484431028

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<10.5	20.0	10.5	11/03/25 14:28	

LABORATORY CONTROL SAMPLE: 3780865

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	500	475	95	90-110	

SAMPLE DUPLICATE: 3780866

Parameter	Units	60484431021 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	285	283	0	10	

SAMPLE DUPLICATE: 3780867

Parameter	Units	60484581008 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	222	222	0	10	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: AMEREN LCPA-CA
Pace Project No.: 60484431

QC Batch: 954086
QC Batch Method: SM 2320B
Analysis Method: SM 2320B
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60484431012

METHOD BLANK: 3781391 Matrix: Water
Associated Lab Samples: 60484431012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<10.5	20.0	10.5	11/04/25 15:23	

LABORATORY CONTROL SAMPLE: 3781392

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	500	483	97	90-110	

SAMPLE DUPLICATE: 3781393

Parameter	Units	60484577001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	151	91.3	49	10	D6

SAMPLE DUPLICATE: 3781394

Parameter	Units	60484606002 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	473	475	0	10	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: AMEREN LCPA-CA
Pace Project No.: 60484431

QC Batch: 954127
QC Batch Method: SM 2320B
Analysis Method: SM 2320B
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60484431013, 60484431014, 60484431016, 60484431017, 60484431018, 60484431019, 60484431029

METHOD BLANK: 3781518 Matrix: Water
Associated Lab Samples: 60484431013, 60484431014, 60484431016, 60484431017, 60484431018, 60484431019, 60484431029

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<10.5	20.0	10.5	11/04/25 21:17	

LABORATORY CONTROL SAMPLE: 3781519

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	500	484	97	90-110	

SAMPLE DUPLICATE: 3781520

Parameter	Units	60484433004 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	144	262	58	10	D6

SAMPLE DUPLICATE: 3781521

Parameter	Units	60484432009 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	64.4	57.9	11	10	D6

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: AMEREN LCPA-CA
Pace Project No.: 60484431

QC Batch: 954208
QC Batch Method: SM 2320B
Analysis Method: SM 2320B
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60484431032

METHOD BLANK: 3781815 Matrix: Water
Associated Lab Samples: 60484431032

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<10.5	20.0	10.5	11/05/25 20:08	

LABORATORY CONTROL SAMPLE: 3781816

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	500	488	98	90-110	

SAMPLE DUPLICATE: 3781817

Parameter	Units	60484432017 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	64.6	65.5	1	10	

SAMPLE DUPLICATE: 3781818

Parameter	Units	60484431032 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	464	465	0	10	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: AMEREN LCPA-CA
Pace Project No.: 60484431

QC Batch: 952616
QC Batch Method: SM 2540C
Analysis Method: SM 2540C
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60484431001, 60484431002, 60484431003, 60484431004, 60484431005, 60484431006, 60484431007, 60484431008, 60484431009

METHOD BLANK: 3775512 Matrix: Water
Associated Lab Samples: 60484431001, 60484431002, 60484431003, 60484431004, 60484431005, 60484431006, 60484431007, 60484431008, 60484431009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<5.0	5.0	5.0	10/23/25 10:59	

LABORATORY CONTROL SAMPLE: 3775513

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	1000	1000	100	80-120	

SAMPLE DUPLICATE: 3775514

Parameter	Units	60484431001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	306	298	3	10	

SAMPLE DUPLICATE: 3775515

Parameter	Units	60484431006 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	607	611	1	10	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: AMEREN LCPA-CA
Pace Project No.: 60484431

QC Batch: 953035
QC Batch Method: SM 2540C
Analysis Method: SM 2540C
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60484431015, 60484431020, 60484431021, 60484431022, 60484431023, 60484431024, 60484431025, 60484431026, 60484431027

METHOD BLANK: 3777327 Matrix: Water
Associated Lab Samples: 60484431015, 60484431020, 60484431021, 60484431022, 60484431023, 60484431024, 60484431025, 60484431026, 60484431027

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<5.0	5.0	5.0	10/27/25 10:49	

LABORATORY CONTROL SAMPLE: 3777328

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	1000	1020	102	80-120	

SAMPLE DUPLICATE: 3777329

Parameter	Units	60484491002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	492	496	1	10	

SAMPLE DUPLICATE: 3777330

Parameter	Units	60484431021 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	682	680	0	10	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: AMEREN LCPA-CA
Pace Project No.: 60484431

QC Batch: 953036
QC Batch Method: SM 2540C
Analysis Method: SM 2540C
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60484431028

METHOD BLANK: 3777331 Matrix: Water
Associated Lab Samples: 60484431028

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<5.0	5.0	5.0	10/27/25 10:55	

LABORATORY CONTROL SAMPLE: 3777332

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	1000	1000	100	80-120	

SAMPLE DUPLICATE: 3777333

Parameter	Units	60484431028 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	<5.0	<5.0		10	

SAMPLE DUPLICATE: 3777334

Parameter	Units	60484583002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	785	787	0	10	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: AMEREN LCPA-CA
Pace Project No.: 60484431

QC Batch: 953151
QC Batch Method: SM 2540C
Analysis Method: SM 2540C
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60484431012, 60484431013, 60484431014, 60484431016, 60484431017, 60484431018, 60484431019, 60484431029

METHOD BLANK: 3777820 Matrix: Water
Associated Lab Samples: 60484431012, 60484431013, 60484431014, 60484431016, 60484431017, 60484431018, 60484431019, 60484431029

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<5.0	5.0	5.0	10/28/25 10:56	

LABORATORY CONTROL SAMPLE: 3777821

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	1000	1010	101	80-120	

SAMPLE DUPLICATE: 3777822

Parameter	Units	60484433004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	639	645	1	10	

SAMPLE DUPLICATE: 3777823

Parameter	Units	60484432009 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1060	1060	0	10	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: AMEREN LCPA-CA
Pace Project No.: 60484431

QC Batch: 953276
QC Batch Method: SM 2540C
Analysis Method: SM 2540C
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60484431032

METHOD BLANK: 3778215 Matrix: Water
Associated Lab Samples: 60484431032

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<5.0	5.0	5.0	10/29/25 09:11	

LABORATORY CONTROL SAMPLE: 3778216

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	1000	1000	100	80-120	

SAMPLE DUPLICATE: 3778217

Parameter	Units	60484604001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	5600	5580	0	10	

SAMPLE DUPLICATE: 3778218

Parameter	Units	60484431032 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	735	741	1	10	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: AMEREN LCPA-CA
Pace Project No.: 60484431

Sample: L-MW-33(D) **Lab ID: 60484431004** Collected: 10/17/25 11:35 Received: 10/18/25 08:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.491 ± 0.485 (0.737) C:NA T:83%**	pCi/L	11/14/25 14:23	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.755 ± 0.514 (1.00) C:72% T:81%**	pCi/L	11/11/25 11:04	15262-20-1	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: AMEREN LCPA-CA
Pace Project No.: 60484431

Sample: L-MW-34(D) **Lab ID: 60484431005** Collected: 10/17/25 10:30 Received: 10/18/25 08:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.363 ± 0.505 (0.853) C:NA T:87%**	pCi/L	11/14/25 14:23	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**1.51 ± 0.618 (1.00) C:74% T:79%**	pCi/L	11/11/25 11:30	15262-20-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: AMEREN LCPA-CA
Pace Project No.: 60484431

Sample: L-TP-3M **Lab ID: 60484431006** Collected: 10/17/25 12:24 Received: 10/18/25 08:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.415 ± 0.376 (0.554) C:NA T:84%**	pCi/L	11/14/25 14:23	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**1.05 ± 0.466 (0.731) C:71% T:83%**	pCi/L	11/11/25 14:35	15262-20-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: AMEREN LCPA-CA
Pace Project No.: 60484431

Sample: L-TP-3D **Lab ID: 60484431007** Collected: 10/17/25 13:25 Received: 10/18/25 08:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.464 ± 0.326 (0.157) C:NA T:90%**	pCi/L	11/14/25 14:23	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.733 ± 0.435 (0.797) C:69% T:87%**	pCi/L	11/11/25 14:35	15262-20-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: AMEREN LCPA-CA
Pace Project No.: 60484431

Sample: L-TP-4D **Lab ID: 60484431008** Collected: 10/17/25 09:26 Received: 10/18/25 08:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
		Pace Analytical Services - Greensburg				
Radium-226	EPA 903.1	**2.17 ± 0.799 (0.685) C:NA T:90%**	pCi/L	11/14/25 14:34	13982-63-3	
		Pace Analytical Services - Greensburg				
Radium-228	EPA 904.0	**1.39 ± 0.562 (0.863) C:70% T:78%**	pCi/L	11/11/25 14:35	15262-20-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: AMEREN LCPA-CA
Pace Project No.: 60484431

Sample: L-CA-FB-1 **Lab ID: 60484431009** Collected: 10/17/25 10:47 Received: 10/18/25 08:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.421 ± 0.591 (1.00) C:NA T:85%**	pCi/L	11/14/25 14:34	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.393 ± 0.444 (0.931) C:72% T:77%**	pCi/L	11/11/25 14:35	15262-20-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: AMEREN LCPA-CA
Pace Project No.: 60484431

Sample: L-MS-1 **Lab ID: 60484431010** Collected: 10/17/25 12:24 Received: 10/18/25 08:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**108.32 %REC ± NA (NA) C:NA T:NA**	pCi/L	11/14/25 14:34	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**87.82 %REC ± NA (NA) C:NA T:NA**	pCi/L	11/11/25 14:36	15262-20-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: AMEREN LCPA-CA
Pace Project No.: 60484431

Sample: L-MSD-1 **Lab ID: 60484431011** Collected: 10/17/25 12:24 Received: 10/18/25 08:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**89.15 %REC 19.41RPD ± NA (NA) C:NA T:NA**	pCi/L	11/14/25 14:34	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**93.02 %REC 5.74RPD ± NA (NA) C:NA T:NA**	pCi/L	11/11/25 14:36	15262-20-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: AMEREN LCPA-CA
Pace Project No.: 60484431

Sample: L-AMW-8 **Lab ID: 60484431012** Collected: 10/21/25 14:30 Received: 10/22/25 08:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.428 ± 0.434 (0.657) C:NA T:84%**	pCi/L	11/14/25 14:34	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.903 ± 0.638 (1.25) C:74% T:66%**	pCi/L	11/11/25 14:36	15262-20-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: AMEREN LCPA-CA
Pace Project No.: 60484431

Sample: L-MW-24 **Lab ID: 60484431016** Collected: 10/21/25 12:49 Received: 10/22/25 08:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.351 ± 0.415 (0.652) C:NA T:76%**	pCi/L	11/14/25 14:46	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.593 ± 0.464 (0.918) C:70% T:84%**	pCi/L	11/11/25 14:36	15262-20-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: AMEREN LCPA-CA
Pace Project No.: 60484431

Sample: L-MW-35(D) **Lab ID: 60484431018** Collected: 10/21/25 13:27 Received: 10/22/25 08:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.533 ± 0.423 (0.550) C:NA T:85%**	pCi/L	11/14/25 14:46	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.743 ± 0.461 (0.867) C:74% T:82%**	pCi/L	11/11/25 14:36	15262-20-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: AMEREN LCPA-CA
Pace Project No.: 60484431

Sample: L-S-1 **Lab ID: 60484431019** Collected: 10/21/25 14:16 Received: 10/22/25 08:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.604 ± 0.449 (0.561) C:NA T:86%**	pCi/L	11/14/25 14:46	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.737 ± 0.397 (0.705) C:78% T:88%**	pCi/L	11/11/25 14:37	15262-20-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: AMEREN LCPA-CA
Pace Project No.: 60484431

Sample: L-TP-1D **Lab ID: 60484431020** Collected: 10/20/25 13:50 Received: 10/22/25 08:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
		Pace Analytical Services - Greensburg				
Radium-226	EPA 903.1	**1.22 ± 0.608 (0.625) C:NA T:85%**	pCi/L	11/14/25 14:46	13982-63-3	
		Pace Analytical Services - Greensburg				
Radium-228	EPA 904.0	**1.90 ± 0.608 (0.747) C:71% T:84%**	pCi/L	11/11/25 14:37	15262-20-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: AMEREN LCPA-CA
Pace Project No.: 60484431

Sample: L-TP-2M **Lab ID: 60484431021** Collected: 10/20/25 11:27 Received: 10/22/25 08:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.238 ± 0.281 (0.442) C:NA T:80%**	pCi/L	11/14/25 13:46	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**1.88 ± 0.605 (0.795) C:78% T:75%**	pCi/L	11/12/25 11:35	15262-20-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: AMEREN LCPA-CA
Pace Project No.: 60484431

Sample: L-TP-2D **Lab ID: 60484431022** Collected: 10/20/25 09:57 Received: 10/22/25 08:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**1.08 ± 0.571 (0.611) C:NA T:88%**	pCi/L	11/14/25 13:46	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.963 ± 0.453 (0.782) C:75% T:88%**	pCi/L	11/12/25 11:35	15262-20-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: AMEREN LCPA-CA
Pace Project No.: 60484431

Sample: L-AM-1S **Lab ID: 60484431023** Collected: 10/20/25 13:09 Received: 10/22/25 08:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.000 ± 0.336 (0.711) C:NA T:88%**	pCi/L	11/14/25 13:46	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.453 ± 0.493 (1.03) C:69% T:79%**	pCi/L	11/12/25 11:36	15262-20-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: AMEREN LCPA-CA
Pace Project No.: 60484431

Sample: L-AM-1D **Lab ID: 60484431024** Collected: 10/20/25 11:13 Received: 10/22/25 08:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.0538 ± 0.246 (0.146) C:NA T:90%**	pCi/L	11/14/25 13:46	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.257 ± 0.411 (0.892) C:76% T:72%**	pCi/L	11/12/25 11:36	15262-20-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: AMEREN LCPA-CA
Pace Project No.: 60484431

Sample: L-CA-DUP-1 **Lab ID: 60484431025** Collected: 10/20/25 00:00 Received: 10/22/25 08:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.812 ± 0.707 (1.09) C:NA T:85%**	pCi/L	11/14/25 13:46	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**1.19 ± 0.556 (0.983) C:76% T:82%**	pCi/L	11/12/25 11:36	15262-20-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: AMEREN LCPA-CA
Pace Project No.: 60484431

Sample: L-CA-DUP-2 **Lab ID: 60484431026** Collected: 10/20/25 00:00 Received: 10/22/25 08:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.348 ± 0.363 (0.513) C:NA T:93%**	pCi/L	11/14/25 13:46	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**1.03 ± 0.534 (0.978) C:77% T:84%**	pCi/L	11/12/25 11:36	15262-20-1	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: AMEREN LCPA-CA
Pace Project No.: 60484431

Sample: L-CA-DUP-3 **Lab ID: 60484431027** Collected: 10/20/25 00:00 Received: 10/22/25 08:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
		Pace Analytical Services - Greensburg				
Radium-226	EPA 903.1	**1.48 ± 0.831 (1.11) C:NA T:86%**	pCi/L	11/14/25 13:46	13982-63-3	
		Pace Analytical Services - Greensburg				
Radium-228	EPA 904.0	**3.30 ± 0.838 (0.864) C:80% T:83%**	pCi/L	11/12/25 11:36	15262-20-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: AMEREN LCPA-CA
Pace Project No.: 60484431

Sample: L-CA-FB-2 **Lab ID: 60484431028** Collected: 10/20/25 13:00 Received: 10/22/25 08:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.373 ± 0.598 (1.04) C:NA T:78%**	pCi/L	11/14/25 13:58	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.237 ± 0.462 (1.01) C:77% T:76%**	pCi/L	11/12/25 11:36	15262-20-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: AMEREN LCPA-CA
Pace Project No.: 60484431

Sample: L-CA-FB-3 **Lab ID: 60484431029** Collected: 10/21/25 14:10 Received: 10/22/25 08:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.232 ± 0.280 (0.428) C:NA T:88%**	pCi/L	11/14/25 13:58	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.652 ± 0.395 (0.722) C:75% T:82%**	pCi/L	11/12/25 14:42	15262-20-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: AMEREN LCPA-CA
Pace Project No.: 60484431

Sample: L-MS-2 **Lab ID: 60484431030** Collected: 10/20/25 11:27 Received: 10/22/25 08:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**85.51 %REC ± NA (NA) C:NA T:NA**	pCi/L	11/14/25 13:58	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**85.90 %REC ± NA (NA) C:NA T:NA**	pCi/L	11/12/25 14:42	15262-20-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: AMEREN LCPA-CA
Pace Project No.: 60484431

Sample: L-MSD-2 **Lab ID: 60484431031** Collected: 10/20/25 11:27 Received: 10/22/25 08:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**111.02 %REC 25.96RPD ± NA (NA) C:NA T:NA**	pCi/L	11/14/25 13:58	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**89.12 %REC 3.67RPD ± NA (NA) C:NA T:NA**	pCi/L	11/12/25 14:42	15262-20-1	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: AMEREN LCPA-CA
Pace Project No.: 60484431

Sample: L-MW-26 **Lab ID: 60484431017** Collected: 10/21/25 12:02 Received: 10/22/25 08:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.115 ± 0.276 (0.533) C:NA T:88%**	pCi/L	11/14/25 14:46	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.621 ± 0.522 (1.05) C:66% T:80%**	pCi/L	11/11/25 14:36	15262-20-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: AMEREN LCPA-CA
Pace Project No.: 60484431

Sample: L-BMW-1S **Lab ID: 60484431013** Collected: 10/21/25 11:06 Received: 10/22/25 08:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.182 ± 0.357 (0.653) C:NA T:77%**	pCi/L	11/14/25 14:34	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**2.06 ± 0.730 (1.04) C:72% T:79%**	pCi/L	11/11/25 14:36	15262-20-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: AMEREN LCPA-CA
Pace Project No.: 60484431

Sample: L-BMW-2S **Lab ID: 60484431014** Collected: 10/21/25 09:05 Received: 10/22/25 08:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.174 ± 0.265 (0.157) C:NA T:84%**	pCi/L	11/14/25 14:34	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.726 ± 0.446 (0.824) C:71% T:86%**	pCi/L	11/11/25 14:36	15262-20-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: AMEREN LCPA-CA
Pace Project No.: 60484431

Sample: L-LMW-1S **Lab ID: 60484431001** Collected: 10/17/25 11:45 Received: 10/18/25 08:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.131 ± 0.407 (0.788) C:NA T:80%**	pCi/L	11/14/25 14:23	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.646 ± 0.466 (0.896) C:69% T:78%**	pCi/L	11/11/25 11:30	15262-20-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: AMEREN LCPA-CA
Pace Project No.: 60484431

Sample: L-LMW-7S **Lab ID: 60484431002** Collected: 10/17/25 12:20 Received: 10/18/25 08:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.537 ± 0.784 (1.34) C:NA T:78%**	pCi/L	11/14/25 14:23	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.645 ± 0.486 (0.957) C:80% T:78%**	pCi/L	11/11/25 11:30	15262-20-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: AMEREN LCPA-CA
Pace Project No.: 60484431

Sample: L-LMW-8S **Lab ID: 60484431003** Collected: 10/17/25 12:41 Received: 10/18/25 08:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.478 ± 0.500 (0.783) C:NA T:83%**	pCi/L	11/14/25 14:23	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.115 ± 0.410 (0.924) C:77% T:89%**	pCi/L	11/11/25 11:30	15262-20-1	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: AMEREN LCPA-CA
Pace Project No.: 60484431

Sample: L-LMW-2S **Lab ID: 60484431015** Collected: 10/20/25 15:10 Received: 10/22/25 08:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.000 ± 0.266 (0.542) C:NA T:83%**	pCi/L	11/14/25 14:34	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.0279 ± 0.327 (0.760) C:75% T:88%**	pCi/L	11/11/25 14:36	15262-20-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: AMEREN LCPA-CA
Pace Project No.: 60484431

Sample: L-LMW-4S **Lab ID: 60484431032** Collected: 10/22/25 09:48 Received: 10/23/25 08:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**-0.0555 ± 0.499 (1.01) C:NA T:85%**	pCi/L	11/14/25 13:58	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**1.14 ± 0.502 (0.820) C:77% T:76%**	pCi/L	11/12/25 14:42	15262-20-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL - RADIOCHEMISTRY

Project: AMEREN LCPA-CA
Pace Project No.: 60484431

QC Batch: 780391
QC Batch Method: EPA 904.0
Analysis Method: EPA 904.0
Analysis Description: 904.0 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 60484431001, 60484431002, 60484431003, 60484431004, 60484431005, 60484431006, 60484431007, 60484431008, 60484431009, 60484431010, 60484431011, 60484431012, 60484431013, 60484431014, 60484431015, 60484431016, 60484431017, 60484431018, 60484431019, 60484431020

METHOD BLANK: 3806037
Matrix: Water
Associated Lab Samples: 60484431001, 60484431002, 60484431003, 60484431004, 60484431005, 60484431006, 60484431007, 60484431008, 60484431009, 60484431010, 60484431011, 60484431012, 60484431013, 60484431014, 60484431015, 60484431016, 60484431017, 60484431018, 60484431019, 60484431020

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	-0.0578 ± 0.412 (0.965) C:75% T:81%	pCi/L	11/11/25 11:30	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL - RADIOCHEMISTRY

Project: AMEREN LCPA-CA
Pace Project No.: 60484431

QC Batch: 780394
QC Batch Method: EPA 904.0
Analysis Method: EPA 904.0
Analysis Description: 904.0 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 60484431021, 60484431022, 60484431023, 60484431024, 60484431025, 60484431026, 60484431027, 60484431028, 60484431029, 60484431030, 60484431031, 60484431032

METHOD BLANK: 3806045 Matrix: Water
Associated Lab Samples: 60484431021, 60484431022, 60484431023, 60484431024, 60484431025, 60484431026, 60484431027, 60484431028, 60484431029, 60484431030, 60484431031, 60484431032

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.696 ± 0.437 (0.825) C:76% T:79%	pCi/L	11/12/25 11:35	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL - RADIOCHEMISTRY

Project: AMEREN LCPA-CA
Pace Project No.: 60484431

QC Batch: 780393
QC Batch Method: EPA 903.1
Analysis Method: EPA 903.1
Analysis Description: 903.1 Radium-226
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 60484431021, 60484431022, 60484431023, 60484431024, 60484431025, 60484431026, 60484431027, 60484431028, 60484431029, 60484431030, 60484431031, 60484431032

METHOD BLANK: 3806044 Matrix: Water
Associated Lab Samples: 60484431021, 60484431022, 60484431023, 60484431024, 60484431025, 60484431026, 60484431027, 60484431028, 60484431029, 60484431030, 60484431031, 60484431032

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0438 ± 0.200 (0.406) C:NA T:90%	pCi/L	11/14/25 13:46	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL - RADIOCHEMISTRY

Project: AMEREN LCPA-CA
Pace Project No.: 60484431

QC Batch: 780389
QC Batch Method: EPA 903.1
Analysis Method: EPA 903.1
Analysis Description: 903.1 Radium-226
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 60484431001, 60484431002, 60484431003, 60484431004, 60484431005, 60484431006, 60484431007, 60484431008, 60484431009, 60484431010, 60484431011, 60484431012, 60484431013, 60484431014, 60484431015, 60484431016, 60484431017, 60484431018, 60484431019, 60484431020

METHOD BLANK: 3806036
Matrix: Water
Associated Lab Samples: 60484431001, 60484431002, 60484431003, 60484431004, 60484431005, 60484431006, 60484431007, 60484431008, 60484431009, 60484431010, 60484431011, 60484431012, 60484431013, 60484431014, 60484431015, 60484431016, 60484431017, 60484431018, 60484431019, 60484431020

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.000 ± 0.226 (0.506) C:NA T:77%	pCi/L	11/14/25 14:23	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALIFIERS

Project: AMEREN LCPA-CA
Pace Project No.: 60484431

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval). Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

D6	The precision between the sample and sample duplicate exceeded laboratory control limits.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
P6	Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: AMEREN LCPA-CA
Pace Project No.: 60484431

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60484431001	**L-LMW-1S**	EPA 200.7	952222	EPA 200.7	952243
60484431002	**L-LMW-7S**	EPA 200.7	952222	EPA 200.7	952243
60484431003	**L-LMW-8S**	EPA 200.7	952222	EPA 200.7	952243
60484431004	**L-MW-33(D)**	EPA 200.7	952222	EPA 200.7	952243
60484431005	**L-MW-34(D)**	EPA 200.7	952222	EPA 200.7	952243
60484431006	**L-TP-3M**	EPA 200.7	952222	EPA 200.7	952243
60484431007	**L-TP-3D**	EPA 200.7	952222	EPA 200.7	952243
60484431008	**L-TP-4D**	EPA 200.7	952222	EPA 200.7	952243
60484431009	**L-CA-FB-1**	EPA 200.7	952222	EPA 200.7	952243
60484431012	**L-AMW-8**	EPA 200.7	952613	EPA 200.7	952704
60484431013	**L-BMW-1S**	EPA 200.7	952613	EPA 200.7	952704
60484431014	**L-BMW-2S**	EPA 200.7	952613	EPA 200.7	952704
60484431015	**L-LMW-2S**	EPA 200.7	952613	EPA 200.7	952704
60484431016	**L-MW-24**	EPA 200.7	952613	EPA 200.7	952704
60484431017	**L-MW-26**	EPA 200.7	952613	EPA 200.7	952704
60484431018	**L-MW-35(D)**	EPA 200.7	952613	EPA 200.7	952704
60484431019	**L-S-1**	EPA 200.7	952613	EPA 200.7	952704
60484431020	**L-TP-1D**	EPA 200.7	952613	EPA 200.7	952704
60484431021	**L-TP-2M**	EPA 200.7	952613	EPA 200.7	952704
60484431022	**L-TP-2D**	EPA 200.7	952617	EPA 200.7	952711
60484431023	**L-AM-1S**	EPA 200.7	952617	EPA 200.7	952711
60484431024	**L-AM-1D**	EPA 200.7	952617	EPA 200.7	952711
60484431025	**L-CA-DUP-1**	EPA 200.7	952617	EPA 200.7	952711
60484431026	**L-CA-DUP-2**	EPA 200.7	952617	EPA 200.7	952711
60484431027	**L-CA-DUP-3**	EPA 200.7	952617	EPA 200.7	952711
60484431028	**L-CA-FB-2**	EPA 200.7	952617	EPA 200.7	952711
60484431029	**L-CA-FB-3**	EPA 200.7	952617	EPA 200.7	952711
60484431032	**L-LMW-4S**	EPA 200.7	952811	EPA 200.7	952836
60484431001	**L-LMW-1S**	EPA 200.8	952225	EPA 200.8	952244
60484431002	**L-LMW-7S**	EPA 200.8	952225	EPA 200.8	952244
60484431003	**L-LMW-8S**	EPA 200.8	952225	EPA 200.8	952244
60484431004	**L-MW-33(D)**	EPA 200.8	952225	EPA 200.8	952244
60484431005	**L-MW-34(D)**	EPA 200.8	952225	EPA 200.8	952244
60484431006	**L-TP-3M**	EPA 200.8	952225	EPA 200.8	952244
60484431007	**L-TP-3D**	EPA 200.8	952225	EPA 200.8	952244
60484431008	**L-TP-4D**	EPA 200.8	952225	EPA 200.8	952244
60484431009	**L-CA-FB-1**	EPA 200.8	952225	EPA 200.8	952244
60484431012	**L-AMW-8**	EPA 200.8	952614	EPA 200.8	952706
60484431013	**L-BMW-1S**	EPA 200.8	952614	EPA 200.8	952706
60484431014	**L-BMW-2S**	EPA 200.8	952614	EPA 200.8	952706
60484431015	**L-LMW-2S**	EPA 200.8	952614	EPA 200.8	952706
60484431016	**L-MW-24**	EPA 200.8	952614	EPA 200.8	952706
60484431017	**L-MW-26**	EPA 200.8	952614	EPA 200.8	952706
60484431018	**L-MW-35(D)**	EPA 200.8	952614	EPA 200.8	952706
60484431019	**L-S-1**	EPA 200.8	952614	EPA 200.8	952706
60484431020	**L-TP-1D**	EPA 200.8	952614	EPA 200.8	952706

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: AMEREN LCPA-CA
Pace Project No.: 60484431

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60484431021	**L-TP-2M**	EPA 200.8	952614	EPA 200.8	952706
60484431022	**L-TP-2D**	EPA 200.8	952619	EPA 200.8	952712
60484431023	**L-AM-1S**	EPA 200.8	952619	EPA 200.8	952712
60484431024	**L-AM-1D**	EPA 200.8	952619	EPA 200.8	952712
60484431025	**L-CA-DUP-1**	EPA 200.8	952619	EPA 200.8	952712
60484431026	**L-CA-DUP-2**	EPA 200.8	952619	EPA 200.8	952712
60484431027	**L-CA-DUP-3**	EPA 200.8	952619	EPA 200.8	952712
60484431028	**L-CA-FB-2**	EPA 200.8	952619	EPA 200.8	952712
60484431029	**L-CA-FB-3**	EPA 200.8	952619	EPA 200.8	952712
60484431032	**L-LMW-4S**	EPA 200.8	953224	EPA 200.8	953266
60484431001	**L-LMW-1S**	EPA 7470	954700	EPA 7470	954721
60484431002	**L-LMW-7S**	EPA 7470	954700	EPA 7470	954721
60484431003	**L-LMW-8S**	EPA 7470	954700	EPA 7470	954721
60484431004	**L-MW-33(D)**	EPA 7470	954700	EPA 7470	954721
60484431005	**L-MW-34(D)**	EPA 7470	954700	EPA 7470	954721
60484431006	**L-TP-3M**	EPA 7470	954700	EPA 7470	954721
60484431007	**L-TP-3D**	EPA 7470	954700	EPA 7470	954721
60484431008	**L-TP-4D**	EPA 7470	954700	EPA 7470	954721
60484431009	**L-CA-FB-1**	EPA 7470	954700	EPA 7470	954721
60484431012	**L-AMW-8**	EPA 7470	954700	EPA 7470	954721
60484431013	**L-BMW-1S**	EPA 7470	954904	EPA 7470	954931
60484431014	**L-BMW-2S**	EPA 7470	954904	EPA 7470	954931
60484431015	**L-LMW-2S**	EPA 7470	954904	EPA 7470	954931
60484431016	**L-MW-24**	EPA 7470	954904	EPA 7470	954931
60484431017	**L-MW-26**	EPA 7470	954904	EPA 7470	954931
60484431018	**L-MW-35(D)**	EPA 7470	954904	EPA 7470	954931
60484431019	**L-S-1**	EPA 7470	954904	EPA 7470	954931
60484431020	**L-TP-1D**	EPA 7470	954904	EPA 7470	954931
60484431021	**L-TP-2M**	EPA 7470	954904	EPA 7470	954931
60484431022	**L-TP-2D**	EPA 7470	954904	EPA 7470	954931
60484431023	**L-AM-1S**	EPA 7470	954904	EPA 7470	954931
60484431024	**L-AM-1D**	EPA 7470	954904	EPA 7470	954931
60484431025	**L-CA-DUP-1**	EPA 7470	954904	EPA 7470	954931
60484431026	**L-CA-DUP-2**	EPA 7470	954904	EPA 7470	954931
60484431027	**L-CA-DUP-3**	EPA 7470	954904	EPA 7470	954931
60484431028	**L-CA-FB-2**	EPA 7470	954904	EPA 7470	954931
60484431029	**L-CA-FB-3**	EPA 7470	954904	EPA 7470	954931
60484431032	**L-LMW-4S**	EPA 7470	954905	EPA 7470	954932
60484431001	**L-LMW-1S**	EPA 903.1	780389		
60484431002	**L-LMW-7S**	EPA 903.1	780389		
60484431003	**L-LMW-8S**	EPA 903.1	780389		
60484431004	**L-MW-33(D)**	EPA 903.1	780389		
60484431005	**L-MW-34(D)**	EPA 903.1	780389		
60484431006	**L-TP-3M**	EPA 903.1	780389		
60484431007	**L-TP-3D**	EPA 903.1	780389		
60484431008	**L-TP-4D**	EPA 903.1	780389		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: AMEREN LCPA-CA
Pace Project No.: 60484431

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60484431009	**L-CA-FB-1**	EPA 903.1	780389		
60484431010	**L-MS-1**	EPA 903.1	780389		
60484431011	**L-MSD-1**	EPA 903.1	780389		
60484431012	**L-AMW-8**	EPA 903.1	780389		
60484431013	**L-BMW-1S**	EPA 903.1	780389		
60484431014	**L-BMW-2S**	EPA 903.1	780389		
60484431015	**L-LMW-2S**	EPA 903.1	780389		
60484431016	**L-MW-24**	EPA 903.1	780389		
60484431017	**L-MW-26**	EPA 903.1	780389		
60484431018	**L-MW-35(D)**	EPA 903.1	780389		
60484431019	**L-S-1**	EPA 903.1	780389		
60484431020	**L-TP-1D**	EPA 903.1	780389		
60484431021	**L-TP-2M**	EPA 903.1	780393		
60484431022	**L-TP-2D**	EPA 903.1	780393		
60484431023	**L-AM-1S**	EPA 903.1	780393		
60484431024	**L-AM-1D**	EPA 903.1	780393		
60484431025	**L-CA-DUP-1**	EPA 903.1	780393		
60484431026	**L-CA-DUP-2**	EPA 903.1	780393		
60484431027	**L-CA-DUP-3**	EPA 903.1	780393		
60484431028	**L-CA-FB-2**	EPA 903.1	780393		
60484431029	**L-CA-FB-3**	EPA 903.1	780393		
60484431030	**L-MS-2**	EPA 903.1	780393		
60484431031	**L-MSD-2**	EPA 903.1	780393		
60484431032	**L-LMW-4S**	EPA 903.1	780393		
60484431001	**L-LMW-1S**	EPA 904.0	780391		
60484431002	**L-LMW-7S**	EPA 904.0	780391		
60484431003	**L-LMW-8S**	EPA 904.0	780391		
60484431004	**L-MW-33(D)**	EPA 904.0	780391		
60484431005	**L-MW-34(D)**	EPA 904.0	780391		
60484431006	**L-TP-3M**	EPA 904.0	780391		
60484431007	**L-TP-3D**	EPA 904.0	780391		
60484431008	**L-TP-4D**	EPA 904.0	780391		
60484431009	**L-CA-FB-1**	EPA 904.0	780391		
60484431010	**L-MS-1**	EPA 904.0	780391		
60484431011	**L-MSD-1**	EPA 904.0	780391		
60484431012	**L-AMW-8**	EPA 904.0	780391		
60484431013	**L-BMW-1S**	EPA 904.0	780391		
60484431014	**L-BMW-2S**	EPA 904.0	780391		
60484431015	**L-LMW-2S**	EPA 904.0	780391		
60484431016	**L-MW-24**	EPA 904.0	780391		
60484431017	**L-MW-26**	EPA 904.0	780391		
60484431018	**L-MW-35(D)**	EPA 904.0	780391		
60484431019	**L-S-1**	EPA 904.0	780391		
60484431020	**L-TP-1D**	EPA 904.0	780391		
60484431021	**L-TP-2M**	EPA 904.0	780394		
60484431022	**L-TP-2D**	EPA 904.0	780394		
60484431023	**L-AM-1S**	EPA 904.0	780394		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: AMEREN LCPA-CA
Pace Project No.: 60484431

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60484431024	**L-AM-1D**	EPA 904.0	780394		
60484431025	**L-CA-DUP-1**	EPA 904.0	780394		
60484431026	**L-CA-DUP-2**	EPA 904.0	780394		
60484431027	**L-CA-DUP-3**	EPA 904.0	780394		
60484431028	**L-CA-FB-2**	EPA 904.0	780394		
60484431029	**L-CA-FB-3**	EPA 904.0	780394		
60484431030	**L-MS-2**	EPA 904.0	780394		
60484431031	**L-MSD-2**	EPA 904.0	780394		
60484431032	**L-LMW-4S**	EPA 904.0	780394		
60484431001	**L-LMW-1S**	EPA 300.0	953722		
60484431002	**L-LMW-7S**	EPA 300.0	953722		
60484431003	**L-LMW-8S**	EPA 300.0	953722		
60484431004	**L-MW-33(D)**	EPA 300.0	953722		
60484431005	**L-MW-34(D)**	EPA 300.0	953722		
60484431006	**L-TP-3M**	EPA 300.0	953722		
60484431007	**L-TP-3D**	EPA 300.0	953722		
60484431008	**L-TP-4D**	EPA 300.0	953722		
60484431009	**L-CA-FB-1**	EPA 300.0	953722		
60484431012	**L-AMW-8**	EPA 300.0	954506		
60484431013	**L-BMW-1S**	EPA 300.0	953722		
60484431014	**L-BMW-2S**	EPA 300.0	953722		
60484431015	**L-LMW-2S**	EPA 300.0	953722		
60484431016	**L-MW-24**	EPA 300.0	953722		
60484431017	**L-MW-26**	EPA 300.0	953722		
60484431018	**L-MW-35(D)**	EPA 300.0	953722		
60484431019	**L-S-1**	EPA 300.0	953722		
60484431020	**L-TP-1D**	EPA 300.0	953722		
60484431021	**L-TP-2M**	EPA 300.0	953723		
60484431022	**L-TP-2D**	EPA 300.0	953723		
60484431023	**L-AM-1S**	EPA 300.0	953723		
60484431024	**L-AM-1D**	EPA 300.0	953723		
60484431025	**L-CA-DUP-1**	EPA 300.0	953723		
60484431026	**L-CA-DUP-2**	EPA 300.0	953723		
60484431027	**L-CA-DUP-3**	EPA 300.0	953723		
60484431028	**L-CA-FB-2**	EPA 300.0	953723		
60484431029	**L-CA-FB-3**	EPA 300.0	953723		
60484431032	**L-LMW-4S**	EPA 300.0	953723		
60484431001	**L-LMW-1S**	SM 2320B	953528		
60484431002	**L-LMW-7S**	SM 2320B	953528		
60484431003	**L-LMW-8S**	SM 2320B	953528		
60484431004	**L-MW-33(D)**	SM 2320B	953708		
60484431005	**L-MW-34(D)**	SM 2320B	953528		
60484431006	**L-TP-3M**	SM 2320B	953528		
60484431007	**L-TP-3D**	SM 2320B	953708		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: AMEREN LCPA-CA
Pace Project No.: 60484431

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60484431008	**L-TP-4D**	SM 2320B	953528		
60484431009	**L-CA-FB-1**	SM 2320B	953528		
60484431012	**L-AMW-8**	SM 2320B	954086		
60484431013	**L-BMW-1S**	SM 2320B	954127		
60484431014	**L-BMW-2S**	SM 2320B	954127		
60484431015	**L-LMW-2S**	SM 2320B	953892		
60484431016	**L-MW-24**	SM 2320B	954127		
60484431017	**L-MW-26**	SM 2320B	954127		
60484431018	**L-MW-35(D)**	SM 2320B	954127		
60484431019	**L-S-1**	SM 2320B	954127		
60484431020	**L-TP-1D**	SM 2320B	953892		
60484431021	**L-TP-2M**	SM 2320B	953892		
60484431022	**L-TP-2D**	SM 2320B	953892		
60484431023	**L-AM-1S**	SM 2320B	953892		
60484431024	**L-AM-1D**	SM 2320B	953892		
60484431025	**L-CA-DUP-1**	SM 2320B	953892		
60484431026	**L-CA-DUP-2**	SM 2320B	953892		
60484431027	**L-CA-DUP-3**	SM 2320B	953892		
60484431028	**L-CA-FB-2**	SM 2320B	953892		
60484431029	**L-CA-FB-3**	SM 2320B	954127		
60484431032	**L-LMW-4S**	SM 2320B	954208		
60484431001	**L-LMW-1S**	SM 2540C	952616		
60484431002	**L-LMW-7S**	SM 2540C	952616		
60484431003	**L-LMW-8S**	SM 2540C	952616		
60484431004	**L-MW-33(D)**	SM 2540C	952616		
60484431005	**L-MW-34(D)**	SM 2540C	952616		
60484431006	**L-TP-3M**	SM 2540C	952616		
60484431007	**L-TP-3D**	SM 2540C	952616		
60484431008	**L-TP-4D**	SM 2540C	952616		
60484431009	**L-CA-FB-1**	SM 2540C	952616		
60484431012	**L-AMW-8**	SM 2540C	953151		
60484431013	**L-BMW-1S**	SM 2540C	953151		
60484431014	**L-BMW-2S**	SM 2540C	953151		
60484431015	**L-LMW-2S**	SM 2540C	953035		
60484431016	**L-MW-24**	SM 2540C	953151		
60484431017	**L-MW-26**	SM 2540C	953151		
60484431018	**L-MW-35(D)**	SM 2540C	953151		
60484431019	**L-S-1**	SM 2540C	953151		
60484431020	**L-TP-1D**	SM 2540C	953035		
60484431021	**L-TP-2M**	SM 2540C	953035		
60484431022	**L-TP-2D**	SM 2540C	953035		
60484431023	**L-AM-1S**	SM 2540C	953035		
60484431024	**L-AM-1D**	SM 2540C	953035		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: AMEREN LCPA-CA
Pace Project No.: 60484431

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60484431025	**L-CA-DUP-1**	SM 2540C	953035		
60484431026	**L-CA-DUP-2**	SM 2540C	953035		
60484431027	**L-CA-DUP-3**	SM 2540C	953035		
60484431028	**L-CA-FB-2**	SM 2540C	953036		
60484431029	**L-CA-FB-3**	SM 2540C	953151		
60484431032	**L-LMW-4S**	SM 2540C	953276		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

WO# : 60484431

60484431

DC#_Title: ENV-FRM-LENE-0009_Sample Co		
Revision: 3	Effective Date: 09/22/2025	Issued By: Lenexa

Client Name: Rocksmith Geoeng

Courier: FedEx ☐ UPS ☐ VIA ☐ Clay ☐ PEX ☐ ECI ☐ Pace ☐ Xroads ☐ Client ☐ Other ☐

Tracking #: _____ Pace Shipping Label Used? Yes ☐ No ☐

Custody Seal on Cooler/Box Present: Yes ☐ No ☐ Seals intact: Yes ☐ No ☐ Cooling process has begun ☐

Packing Material: Bubble Wrap ☐ Bubble Bags ☐ Foam ☐ None ☐ Other ☐

Thermometer Used: T-301 **Type of Ice:** Wet Blue None

Cooler Temperature (°C): As-read 20.4/19.9 Corr. Factor 0.0 Corrected 20.4/19.9/4.0/2.3/2.3/2.01 **Date and initials of person examining contents:** AV 10/20/25

Temperature should be above freezing to 6°C 4.0/2.3/2.3/2.0

Chain of Custody present:	☐Yes ☐No ☐N/A	
Chain of Custody relinquished:	☐Yes ☐No ☐N/A	
Samples arrived within holding time:	☐Yes ☐No ☐N/A	
Short Hold Time analyses (<72hr):	☐Yes ☐No ☐N/A	
Rush Turn Around Time requested:	☐Yes ☐No ☐N/A	
Sufficient volume:	☐Yes ☐No ☐N/A	
Correct containers used:	☐Yes ☐No ☐N/A	
Pace containers used:	☐Yes ☐No ☐N/A	
Containers intact:	☐Yes ☐No ☐N/A	
Unpreserved 5035A / TX1005/1006 soils frozen in 48hrs?	☐Yes ☐No ☐N/A	
Filtered volume received for dissolved tests?	☐Yes ☐No ☐N/A	
Sample labels match COC: Date / time / ID / analyses	☐Yes ☐No ☐N/A	
Samples contain multiple phases? Matrix: WT	☐Yes ☐No ☐N/A	
Containers requiring pH preservation in compliance? (HNO_3, H_2SO_4, HCl<2; NaOH>9 Sulfide, NaOH>10 Cyanide) (Exceptions: VOA, Micro, O&G, KS TPH, Radium) LOT#: 96888	☐Yes ☐No ☐N/A	List sample IDs, volumes, lot #'s of preservative and the date/time added.
Cyanide water sample checks: Lead acetate strip turns dark? (Record only)	☐Yes ☐No	
Potassium iodide test strip turns blue/purple? (Preserve)	☐Yes ☐No	
Trip Blank present:	☐Yes ☐No ☐N/A	
Headspace in VOA vials (>6mm):	☐Yes ☐No ☐N/A	
Samples from USDA Regulated Area: State:	☐Yes ☐No ☐N/A	
Additional labels attached to 5035A / TX1005 vials in the field?	☐Yes ☐No ☐N/A	

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: _____

Pace® Location Requested (City/State):
Pace Analytical Kansas
9608 Loiret Blvd., Lenexa, KS 66219

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

60484431

Scan QR Code for instructions

Company Name:	Rocksmith Geoengineering, LLC.	Contact/Report To:	Mark Haddock
Street Address:	2320 Creve Coeur Mill Road Maryland Heights, MO 63043	Phone #:	314-974-6578
		E-Mail:	mark.haddock@rocksmithgeo.com
		Cc E-Mail:	
Customer Project #:			
Project Name:	AMEREN LCPA-CA	Invoice To:	Mark Haddock
		Invoice E-Mail:	mark.haddock@rocksmithgeo.com
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [ ] ET

County / State origin of sample(s): Missouri

Data Deliverables:
[ ] Level II [ ] Level III [ ] Level IV
[ ] EQUIS
[ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [ ] Yes [ ] No

Rush (Pre-approval required):
[ ] Same Day [ ] 1 Day [ ] 2 Day [ ] 3 Day [ ] Other _____

DW PWSID # or WW Permit # as applicable:

Date Results Requested:

Field Filtered (if applicable): [ ] Yes [ ] No
Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Composite Start Date	Composite Start Time	Collected or Composite End Date	Collected or Composite End Time	# Cont.	Res. Chlorine Results	Res. Chlorine Units	App III and Cat/An Metals*	App IV Metals**	UWL Metals***	COD & TOC	Cl/F/SO4/TDS/Alkalinity	Radium 226/228	Total Organic Halogens				Sample Comment	Preservation non-conformance identified for sample.
L-AMW-8	WT																				
L-BMW-1S	WT																				
L-BMW-2S	WT																				
L-LMW-1S	WT	G			10/17/25	1145	6			✓	✓	✓	✓	✓	✓	✓					
L-LMW-2S	WT																				
L-LMW-4S	WT																				
L-LMW-7S	WT	G			10/17/25	1220	6			✓	✓	✓	✓	✓	✓	✓					
L-LMW-8S	WT	G			10/17/25	1241	6			✓	✓	✓	✓	✓	✓	✓					
L-MW-24	WT																				
L-MW-26	WT																				

Specify Container Size **

Identify Container Preservative Type***

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) 90mL, (10) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only

Proj. Mgr: Jamie Church
AcctNum / Client ID:
Table #:
Profile / Template: 15857
Prelog / Bottle Ord. ID: EZ 3303640

Additional Instructions from Pace®:
App III and Cat/An Metals - EPA 200.7: B, Ca, Fe, Mg, Mn, K, Na
**App IV Metals - EPA 200.7 -Ba,Be,Co,Pb,Li,Mo and 200.8 Metals - Sb, As,Cd,Cr,Se,Tl +7470 Hg
***UWL Metals - 200.7: Al, Cu, Ni, Ag, Zn+ Hardness

Collected By: (Printed Name) John Rasmussen
Signature:

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)	On Ice:
	T301	0.0	20.4	20.4	

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
Rocksmith	10/17/25 1515	JAPace	10/18/25 0850	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Delivered by: [ ] In- Person [ ] Courier
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	[ ] FedEX [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: 1 of 3

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

Pace® Location Requested (City/State):
Pace Analytical Kansas
9608 Loiret Blvd., Lenexa, KS 66219

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

60484431

Scan QR Code for instructions

Company Name:	Rocksmith Geoengineering, LLC.	Contact/Report To:	Mark Haddock
Street Address:	2320 Creve Coeur Mill Road Maryland Heights, MO 63043	Phone #:	314-974-6578
		E-Mail:	mark.haddock@rocksmithgeo.com
		Cc E-Mail:	
Customer Project #:			
Project Name:	AMEREN LCPA-CA	Invoice To:	Mark Haddock
		Invoice E-Mail:	mark.haddock@rocksmithgeo.com
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [ ] ET

County / State origin of sample(s): Missouri

Data Deliverables:
[ ] Level II [ ] Level III [ ] Level IV
[ ] EQUIS
[ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [ ] Yes [ ] No

Rush (Pre-approval required):
[ ] Same Day [ ] 1 Day [ ] 2 Day [ ] 3 Day [ ] Other _____

DW PWSID # or WW Permit # as applicable:

Date Results Requested:

Field Filtered (if applicable): [ ] Yes [ ] No
Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

Specify Container Size **

Identify Container Preservative Type***

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) 90mL, (10) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only:
Proj. Mgr: Jamie Church
AcctNum / Client ID:
Table #:
Profile / Template: 15857
Prelog / Bottle Ord. ID: EZ 3303640

Customer Sample ID	Matrix *	Comp / Grab	Composite Start Date	Composite Start Time	Collected or Composite End Date	Collected or Composite End Time	# Cont.	Res. Chlorine Results	Res. Chlorine Units	App III and Cat/An Metals*	App IV Metals**	UWL Metals***	COD & TOC	Cl/F/SO4/TDS/Alkalinity	Radium 226/228	Total Organic Halogens			Sample Comment	Preservation non-conformance identified for sample.
L-MW-33(D)	WT	G			10/17/25	1135	6			✓	✓	✓	✓	✓	✓	✓				
L-MW-34(D)	WT	G			10/17/25	1030	6			✓	✓	✓	✓	✓	✓	✓				
L-MW-35(D)	WT																			
L-S-1	WT																			
L-TP-1D	WT																			
L-TP-2M	WT																			
L-TP-2D	WT																			
L-TP-3M	WT	G			10/17/25	1224	6			✓	✓	✓	✓	✓	✓	✓	✓			
L-TP-3D	WT	G			10/17/25	1325	6			✓	✓	✓	✓	✓	✓	✓	✓			
L-TP-4D	WT	G			10/17/25	0926	6			✓	✓	✓	✓	✓	✓	✓	✓			

Additional Instructions from Pace®:
App III and Cat/An Metals - EPA 200.7: B, Ca, Fe, Mg, Mn, K, Na
**App IV Metals - EPA 200.7 -Ba,Be,Co,Pb,Li,Mo and 200.8 Metals - Sb, As,Cd,Cr,Se,Tl +7470 Hg
***UWL Metals - 200.7: Al, Cu, Ni, Ag, Zn+ Hardness

Collected By:
(Printed Name) John Rasmussen
Signature:

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)	On Ice:
	T369	0.0	20.4	20.4	

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
Rocksmith	10/17/25 1515	SPace	10/18/25 0850	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Delivered by: [ ] In- Person [ ] Courier
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	[ ] FedEx [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: 2 of 3

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

ENV-FRM-CORQ-0019_v02_110123 ©

Pace® Location Requested (City/State):
Pace Analytical Kansas
9608 Loiret Blvd., Lenexa, KS 66219

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

6a484431

Scan QR Code for instructions

Company Name:	Rocksmith Geoengineering, LLC.	Contact/Report To:	Mark Haddock
Street Address:	2320 Creve Coeur Mill Road Maryland Heights, MO 63043	Phone #:	314-974-6578
		E-Mail:	mark.haddock@rocksmithgeo.com
		Cc E-Mail:	
Customer Project #:			
Project Name:	AMEREN LCPA-CA	Invoice To:	Mark Haddock
		Invoice E-Mail:	mark.haddock@rocksmithgeo.com
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [ ] ET

County / State origin of sample(s): Missouri

Data Deliverables:
[ ] Level II [ ] Level III [ ] Level IV
[ ] EQUIS
[ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [ ] Yes [ ] No

Rush (Pre-approval required):
[ ] Same Day [ ] 1 Day [ ] 2 Day [ ] 3 Day [ ] Other _____

DW PWSID # or WW Permit # as applicable:

Date Results Requested:

Field Filtered (if applicable): [ ] Yes [ ] No
Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

Specify Container Size **

Identify Container Preservative Type***

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) 90mL, (10) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only

Proj. Mgr: Jamie Church
AcctNum / Client ID:
Table #:
Profile / Template: 15857
Prelog / Bottle Ord. ID: EZ 3303640

Customer Sample ID	Matrix *	Comp / Grab	Composite Start Date	Composite Start Time	Collected or Composite End Date	Collected or Composite End Time	# Cont.	Res. Chlorine Results	Res. Chlorine Units	App III and Cat/An Metals*	App IV Metals**	UWL Metals***	COD & TOC	Cl/F/SO4/TDS/Alkalinity	Radium 226/228	Total Organic Halogens	Sample Comment	Preservation non-conformance identified for sample.
L-AM-1S	WT																	
L-AM-1D	WT																	
L-CA-DUP-1	WT																	
L-CA-DUP-2	WT																	
L-CA-DUP-3	WT																	
L-CA-FB-1	WT	G			10/17/25	1047	6			✓	✓	✓	✓	✓	✓	✓		
L-CA-FB-2	WT																	
L-CA-FB-3	WT																	
L-MS-1	WT	G			10/17/25	1224	6			✓	✓	✓	✓	✓	✓	✓	Taken@TP-3M	
L-MSD-1	WT	G			10/17/25	1224	6			✓	✓	✓	✓	✓	✓	✓	1	

Additional Instructions from Pace®:
**App III and Cat/An Metals* - EPA 200.7: B, Ca, Fe, Mg, Mn, K, Na
**App IV Metals - EPA 200.7 -Ba,Be,Co,Pb,Li,Mo and 200.8 Metals - Sb, As,Cd,Cr,Se,Tl +7470 Hg
***UWL Metals - 200.7: Al, Cu, Ni, Ag, Zn+ Hardness

Collected By:
(Printed Name) John Rasmussen
Signature:

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)	On Ice:
	T30	0.0	20.4	20.4	

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
Rocksmith	10/17/25 1515	JAPac	10/18/25 0850	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Delivered by: [ ] In- Person [ ] Courier
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	[ ] FedEx [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: 3 of 3

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

1/3

Client: Rocksmith Geoeng

Profile/EZ #: 3303640

Site:

Notes

COC Line Item	Matrix	VG9H	DG9H	DG9Q	VG9U	DG9U	DG9M	DG9B	BG1U	AG1H	AG1U	AG2U	AG3S	AG4U	AG5U	JGFU	WGKU	WGDU	BP1U	BP2U	BP3U	BP1N	BP3N	BP3F	BP3S	BP3B	BP3Z	WPDU	ZPLC	Other		
1																																
2																																
3																																
4	WT												2						1			2	1									
5																																
6													.																			
7	WT												↓						↓			↓	↓									
8	WT												↓						↓			↓	↓									
9																																
10																																
11																																
12																																

Container Codes

Glass			
DG9B	40mL bisulfate clear vial	WGKU	8oz clear soil jar
DG9H	40mL HCl amber voa vial	WGFU	4oz clear soil jar
DG9M	40mL MeOH clear vial	WG2U	2oz clear soil jar
DG9Q	40mL TSP amber vial	JGFU	4oz unpreserved amber wide
DG9S	40mL H2SO4 amber vial	AG0U	100mL unores amber glass
DG9T	40mL Na Thio amber vial	AG1H	1L HCl amber glass
DG9U	40mL amber unpreserved	AG1S	1L H2SO4 amber glass
VG9H	40mL HCl clear vial	AG1T	1L Na Thiosulfate clear/amber glass
VG9T	40mL Na Thio. clear vial	AG1U	1liter unpres amber glass
VG9U	40mL unpreserved clear vial	AG2N	500mL HNO3 amber glass
BG1S	1liter H2SO4 clear glass	AG2S	500mL H2SO4 amber glass
BG1U	1liter unpres glass	AG3S	250mL H2SO4 amber glass
BG3H	250mL HCL Clear glass	AG2U	500mL unpres amber glass
BG3U	250mL Unpres Clear glass	AG3U	250mL unpres amber glass
WGDU	16oz clear soil jar	AG4U	125mL unpres amber glass
		AG5U	100mL unpres amber glass

Plastic	
BP1B	1L NAOH plastic
BP1N	1L HNO3 plastic
BP1S	1L H2SO4 plastic
BP1U	1L unpreserved plastic
BP1Z	1L NaOH, Zn Acetate
BP2B	500mL NAOH plastic
BP2N	500mL HNO3 plastic
BP2S	500mL H2SO4 plastic
BP2U	500mL unpreserved plastic
BP2Z	500mL NaOH, Zn Acetate
BP3B	250mL NaOH plastic
BP3F	250mL HNO3 plastic - field filtered
BP3N	250mL HNO3 plastic
BP3U	250mL unpreserved plastic
BP3S	250mL H2SO4 plastic
BP3Z	250mL NaOH, Zn Acetate
BP4U	125mL unpreserved plastic
BP4N	125mL HNO3 plastic
BP4S	125mL H2SO4 plastic
WPDU	16oz unpresserved plstic

Misc.	
I	Wipe/Swab
SP5T	120mL Coliform Na Thiosulfate
ZPLC	Ziploc Bag
AF	Air Filter
C	Air Cassettes
R	Terracore Kit
U	Summa Can

Matrix	
WT	Water
SL	Solid
NAL	Non-aqueous Liquid
OL	OIL
WP	Wipe
DW	Drinking Water

Work Order Number: 6c484431

2/3

Client: Rocksmith Geoeng Profile/EZ #: 3303640

Site: Notes

COC Line Item	Matrix	VG9H	DG9H	DG9Q	VG9U	DG9U	DG9M	DG9B	BG1U	AG1H	AG1U	AG2U	AG3S	AG4U	AG5U	JGFU	WGKU	WGDU	BP1U	BP2U	BP3U	BP1N	BP3N	BP3F	BP3S	BP3B	BP3Z	WPDU	ZPLC	Other		
1	WT												2						1			2	1									
2	↓												↓						↓			↓	↓									
3																																
4																																
5																																
6																																
7																																
8	WT												6						3			↓	3			(MS/MSD)					
9	↓												2						1				1									
10													↓						↓			↓	↓									
11																																
12																																

Container Codes

Glass			
DG9B	40mL bisulfate clear vial	WGKU	8oz clear soil jar
DG9H	40mL HCl amber voa vial	WGFU	4oz clear soil jar
DG9M	40mL MeOH clear vial	WG2U	2oz clear soil jar
DG9Q	40mL TSP amber vial	JGFU	4oz unpreserved amber wide
DG9S	40mL H2SO4 amber vial	AG0U	100mL unores amber glass
DG9T	40mL Na Thio amber vial	AG1H	1L HCl amber glass
DG9U	40mL amber unpreserved	AG1S	1L H2SO4 amber glass
VG9H	40mL HCl clear vial	AG1T	1L Na Thiosulfate clear/amber glass
VG9T	40mL Na Thio. clear vial	AG1U	1liter unpres amber glass
VG9U	40mL unpreserved clear vial	AG2N	500mL HNO3 amber glass
BG1S	1liter H2SO4 clear glass	AG2S	500mL H2SO4 amber glass
BG1U	1liter unpres glass	AG3S	250mL H2SO4 amber glass
BG3H	250mL HCL Clear glass	AG2U	500mL unpres amber glass
BG3U	250mL Unpres Clear glass	AG3U	250mL unpres amber glass
WGDU	16oz clear soil jar	AG4U	125mL unpres amber glass
		AG5U	100mL unpres amber glass

Plastic	
BP1B	1L NAOH plastic
BP1N	1L HNO3 plastic
BP1S	1L H2SO4 plastic
BP1U	1L unpreserved plastic
BP1Z	1L NaOH, Zn Acetate
BP2B	500mL NAOH plastic
BP2N	500mL HNO3 plastic
BP2S	500mL H2SO4 plastic
BP2U	500mL unpreserved plastic
BP2Z	500mL NaOH, Zn Acetate
BP3B	250mL NaOH plastic
BP3F	250mL HNO3 plastic - field filtered
BP3N	250mL HNO3 plastic
BP3U	250mL unpreserved plastic
BP3S	250mL H2SO4 plastic
BP3Z	250mL NaOH, Zn Acetate
BP4U	125mL unpreserved plastic
BP4N	125mL HNO3 plastic
BP4S	125mL H2SO4 plastic
WPDU	16oz unpresserved plstic

Misc.	
I	Wipe/Swab
SP5T	120mL Coliform Na Thiosulfate
ZPLC	Ziploc Bag
AF	Air Filter
C	Air Cassettes
R	Terracore Kit
U	Summa Can

Matrix	
WT	Water
SL	Solid
NAL	Non-aqueous Liquid
OL	OIL
WP	Wipe
DW	Drinking Water

Work Order Number: 6a84431

3/3

Client: Rocksmith Geoeng Profile/EZ #: 3303640

Site: Notes

COC Line Item	Matrix	VG9H	DG9H	DG9Q	VG9U	DG9U	DG9M	DG9B	BG1U	AG1H	AG1U	AG2U	AG3S	AG4U	AG5U	JGFU	WGKU	WGDU	BP1U	BP2U	BP3U	BP1N	BP3N	BP3F	BP3S	BP3B	BP3Z	WPDU	ZPLC	Other		
1																																
2																																
3																																
4																																
5																																
6	WT												2						1			2	1									
7																																
8																																
9																																
10																																
11																																
12																																

Container Codes

Glass			
DG9B	40mL bisulfate clear vial	WGKU	8oz clear soil jar
DG9H	40mL HCl amber voa vial	WGFU	4oz clear soil jar
DG9M	40mL MeOH clear vial	WG2U	2oz clear soil jar
DG9Q	40mL TSP amber vial	JGFU	4oz unpreserved amber wide
DG9S	40mL H2SO4 amber vial	AG0U	100mL unores amber glass
DG9T	40mL Na Thio amber vial	AG1H	1L HCl amber glass
DG9U	40mL amber unpreserved	AG1S	1L H2SO4 amber glass
VG9H	40mL HCl clear vial	AG1T	1L Na Thiosulfate clear/amber glass
VG9T	40mL Na Thio. clear vial	AG1U	1liter unpres amber glass
VG9U	40mL unpreserved clear vial	AG2N	500mL HNO3 amber glass
BG1S	1liter H2SO4 clear glass	AG2S	500mL H2SO4 amber glass
BG1U	1liter unpres glass	AG3S	250mL H2SO4 amber glass
BG3H	250mL HCL Clear glass	AG2U	500mL unpres amber glass
BG3U	250mL Unpres Clear glass	AG3U	250mL unpres amber glass
WGDU	16oz clear soil jar	AG4U	125mL unpres amber glass
		AG5U	100mL unpres amber glass

Plastic	
BP1B	1L NAOH plastic
BP1N	1L HNO3 plastic
BP1S	1L H2SO4 plastic
BP1U	1L unpreserved plastic
BP1Z	1L NaOH, Zn Acetate
BP2B	500mL NAOH plastic
BP2N	500mL HNO3 plastic
BP2S	500mL H2SO4 plastic
BP2U	500mL unpreserved plastic
BP2Z	500mL NaOH, Zn Acetate
BP3B	250mL NaOH plastic
BP3F	250mL HNO3 plastic - field filtered
BP3N	250mL HNO3 plastic
BP3U	250mL unpreserved plastic
BP3S	250mL H2SO4 plastic
BP3Z	250mL NaOH, Zn Acetate
BP4U	125mL unpreserved plastic
BP4N	125mL HNO3 plastic
BP4S	125mL H2SO4 plastic
WPDU	16oz unpresserved plstic

Misc.	
I	Wipe/Swab
SP5T	120mL Coliform Na Thiosulfate
ZPLC	Ziploc Bag
AF	Air Filter
C	Air Cassettes
R	Terracore Kit
U	Summa Can

Matrix	
WT	Water
SL	Solid
NAL	Non-aqueous Liquid
OL	OIL
WP	Wipe
DW	Drinking Water

Work Order Number: 60484431

WO# : 60484431

60484431

Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-LENE-0009_Sample Condi		
	Revision: 3	Effective Date: 09/22/2025	Issued By: Lenexa

Client Name: Rocksmith Brewing

Courier: FedEx ☐ UPS ☐ VIA ☐ Clay ☐ PEX ☐ ECI ☐ Pace ☐ Xroads ☑ Client ☐ Other ☐

Tracking #: _____ Pace Shipping Label Used? Yes ☐ No ☑

Custody Seal on Cooler/Box Present: Yes ☑ No ☐ Seals intact: Yes ☑ No ☐ Cooling process has begun ☐

Packing Material: Bubble Wrap ☐ Bubble Bags ☑ Foam ☐ None ☐ Other ☐

Thermometer Used: T-301 **Type of Ice:** Wet ☑ Blue None

Cooler Temperature (°C): **As-read** 0.8 **Corr. Factor** 0.0 **Corrected** 0.8

Date and initials of person examining contents: PV 10/22/25

Temperature should be above freezing to 6°C

Chain of Custody present:	☑Yes ☐No ☐N/A	0.5/0.3/0.9/0.6/16.7
Chain of Custody relinquished:	☑Yes ☐No ☐N/A	15.4/14.0/2.1/14.3/13.5
Samples arrived within holding time:	☑Yes ☐No ☐N/A	
Short Hold Time analyses (<72hr):	☐Yes ☑No ☐N/A	
Rush Turn Around Time requested:	☐Yes ☑No ☐N/A	
Sufficient volume:	☑Yes ☐No ☐N/A	
Correct containers used:	☑Yes ☐No ☐N/A	
Pace containers used:	☑Yes ☐No ☐N/A	
Containers intact:	☑Yes ☐No ☐N/A	
Unpreserved 5035A / TX1005/1006 soils frozen in 48hrs?	☐Yes ☐No ☑N/A	
Filtered volume received for dissolved tests?	☐Yes ☑No ☐N/A	
Sample labels match COC: Date / time / ID / analyses	☑Yes ☐No ☐N/A	
Samples contain multiple phases? Matrix: WT	☐Yes ☑No ☐N/A	
Containers requiring pH preservation in compliance? (HNO_3, H_2SO_4, HCl<2; NaOH>9 Sulfide, NaOH>10 Cyanide) (Exceptions: VOA, Micro, O&G, KS TPH, Radium) **LOT#:** 96888	☑Yes ☐No ☐N/A	List sample IDs, volumes, lot #'s of preservative and the date/time added.
Cyanide water sample checks: Lead acetate strip turns dark? (Record only)	☐Yes ☐No	
Potassium iodide test strip turns blue/purple? (Preserve)	☐Yes ☐No	
Trip Blank present:	☐Yes ☐No ☑N/A	
Headspace in VOA vials (>6mm):	☐Yes ☐No ☑N/A	
Samples from USDA Regulated Area: State:	☐Yes ☐No ☑N/A	
Additional labels attached to 5035A / TX1005 vials in the field?	☐Yes ☐No ☑N/A	

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: _____

Pace® Location Requested (City/State):
Pace Analytical Kansas
9608 Loiret Blvd., Lenexa, KS 66219

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

60484431

Scan QR Code for instructions

Company Name:	Rocksmith Geoengineering, LLC.	Contact/Report To:	Mark Haddock
Street Address:	2320 Creve Coeur Mill Road Maryland Heights, MO 63043	Phone #:	314-974-6578
		E-Mail:	mark.haddock@rocksmithgeo.com
		Cc E-Mail:	
Customer Project #:			
Project Name:	AMEREN LCPA-CA	Invoice To:	Mark Haddock
		Invoice E-Mail:	mark.haddock@rocksmithgeo.com
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [ ] ET

County / State origin of sample(s): Missouri

Data Deliverables:
[ ] Level II [ ] Level III [ ] Level IV
[ ] EQUIS
[ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [ ] Yes [ ] No

Rush (Pre-approval required):
[ ] Same Day [ ] 1 Day [ ] 2 Day [ ] 3 Day [ ] Other _____

DW PWSID # or WW Permit # as applicable:

Date Results Requested:

Field Filtered (if applicable): [ ] Yes [ ] No
Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

Specify Container Size **

Identify Container Preservative Type***

Analysis Requested

Customer Sample ID	Matrix *	Comp / Grab	Composite Start Date	Composite Start Time	Collected or Composite End Date	Collected or Composite End Time	# Cont.	Res. Chlorine Results	Res. Chlorine Units	App III and Cat/An Metals*	App IV Metals**	UWL Metals***	COD & TOC	Cl/F/SO4/TDS/Alkalinity	Radium 226/228	Total Organic Halogens	Sample Comment
L-AMW-8	WT	G			10/21/25	1430	6			✓	✓	✓	✓	✓	✓	✓	
L-BMW-1S	WT	G			10/21/25	1106	6			✓	✓	✓	✓	✓	✓	✓	
L-BMW-2S	WT	G			10/21/25	0905	6			✓	✓	✓	✓	✓	✓	✓	
L-LMW-1S	WT																
L-LMW-2S	WT	G			10/20/25	1510	6			✓	✓	✓	✓	✓	✓	✓	
L-LMW-4S	WT																
L-LMW-7S	WT																
L-LMW-8S	WT																
L-MW-24	WT	G			10/21/25	1249	6			✓	✓	✓	✓	✓	✓	✓	
L-MW-26	WT	G			10/21/25	1202	6			✓	✓	✓	✓	✓	✓	✓	

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) 90mL, (10) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only
Proj. Mgr: Jamie Church
AcctNum / Client ID:
Table #:
Profile / Template: 15857
Prelog / Bottle Ord. ID: EZ 3303640

Preservation non-conformance identified for sample.

Additional Instructions from Pace®:
App III and Cat/An Metals - EPA 200.7: B, Ca, Fe, Mg, Mn, K, Na
**App IV Metals - EPA 200.7 -Ba,Be,Co,Pb,Li,Mo and 200.8 Metals - Sb, As,Cd,Cr,Se,Tl +7470 Hg
***UWL Metals - 200.7: Al, Cu, Ni, Ag, Zn+ Hardness

Collected By:
(Printed Name) John Rasmussen
Signature:

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)	On Ice:
11	T-301	0.0	0.8	0.8	

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
Rasmussen	10/21/25 1600		10/22 0850	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Delivered by: [ ] In- Person [ ] Courier
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	[ ] FedEX [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: 1 of 4

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

Pace® Location Requested (City/State):
Pace Analytical Kansas
9608 Loiret Blvd., Lenexa, KS 66219

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

60484431

Scan QR Code for instructions

Company Name:	Rocksmith Geoengineering, LLC.	Contact/Report To:	Mark Haddock
Street Address:	2320 Creve Coeur Mill Road Maryland Heights, MO 63043	Phone #:	314-974-6578
		E-Mail:	mark.haddock@rocksmithgeo.com
		Cc E-Mail:	
Customer Project #:			
Project Name:	AMEREN LCPA-CA	Invoice To:	Mark Haddock
		Invoice E-Mail:	mark.haddock@rocksmithgeo.com
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [ ] ET

County / State origin of sample(s): Missouri

Data Deliverables:
[ ] Level II [ ] Level III [ ] Level IV
[ ] EQUIS
[ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [ ] Yes [ ] No

Rush (Pre-approval required):
[ ] Same Day [ ] 1 Day [ ] 2 Day [ ] 3 Day [ ] Other _____

DW PWSID # or WW Permit # as applicable:

Date Results Requested:

Field Filtered (if applicable): [ ] Yes [ ] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Composite Start Date	Composite Start Time	Collected or Composite End Date	Collected or Composite End Time	# Cont.	Res. Chlorine Results	Res. Chlorine Units	App III and Cat/An Metals*	App IV Metals**	UWL Metals***	COD & TOC	Cl/F/SO4/TDS/Alkalinity	Radium 226/228	Total Organic Halogens				Sample Comment
L-MW-33(D)	WT																			
L-MW-34(D)	WT																			
L-MW-35(D)	WT	G			10/21/25	1327	6			✓	✓	✓	✓	✓	✓	✓				
L-S-1	WT	G			10/21/25	1416	6			✓	✓	✓	✓	✓	✓	✓				
L-TP-1D	WT	G			10/20/25	1350	6			✓	✓	✓	✓	✓	✓	✓				
L-TP-2M	WT	G			10/20/25	1127	6			✓	✓	✓	✓	✓	✓	✓				
L-TP-2D	WT	G			10/20/25	0957	6			✓	✓	✓	✓	✓	✓	✓				
L-TP-3M	WT																			
L-TP-3D	WT																			
L-TP-4D	WT																			

Specify Container Size **

Identify Container Preservative Type***

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) 90mL, (10) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only
Proj. Mgr: Jamie Church
AcctNum / Client ID:
Table #:
Profile / Template: 15857
Prelog / Bottle Ord. ID: EZ 3303640

Preservation non-conformance identified for sample.

Additional Instructions from Pace®:
App III and Cat/An Metals - EPA 200.7: B, Ca, Fe, Mg, Mn, K, Na
**App IV Metals - EPA 200.7 -Ba,Be,Co,Pb,Li,Mo and 200.8 Metals - Sb, As,Cd,Cr,Se,Tl +7470 Hg
***UWL Metals - 200.7: Al, Cu, Ni, Ag, Zn+ Hardness

Collected By:
(Printed Name) John Rasmussen
Signature:

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)	On Ice:
11	T-301	0.0	0.8	0.8	

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
	10/21/25 1600			
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Delivered by: [ ] In- Person [ ] Courier
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	[ ] FedEX [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: 2 of 4

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

ENV-FRM-CORQ-0019_v02_110123 ©

Pace® Location Requested (City/State):
Pace Analytical Kansas
9608 Loiret Blvd., Lenexa, KS 66219

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

60484431

Scan QR Code for instructions

Company Name:	Rocksmith Geoengineering, LLC.	Contact/Report To:	Mark Haddock
Street Address:	2320 Creve Coeur Mill Road Maryland Heights, MO 63043	Phone #:	314-974-6578
		E-Mail:	mark.haddock@rocksmithgeo.com
		Cc E-Mail:	
Customer Project #:			
Project Name:	AMEREN LCPA-CA	Invoice To:	Mark Haddock
		Invoice E-Mail:	mark.haddock@rocksmithgeo.com
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [ ] ET

County / State origin of sample(s): Missouri

Data Deliverables:
[ ] Level II [ ] Level III [ ] Level IV
[ ] EQUIS
[ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [ ] Yes [ ] No

Rush (Pre-approval required):
[ ] Same Day [ ] 1 Day [ ] 2 Day [ ] 3 Day [ ] Other _____

DW PWSID # or WW Permit # as applicable:

Date Results Requested:

Field Filtered (if applicable): [ ] Yes [ ] No
Analysis:

Specify Container Size **

Identify Container Preservative Type***

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) 90mL, (10) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only
Proj. Mgr: Jamie Church
AcctNum / Client ID:
Table #:
Profile / Template: 15857
Prelog / Bottle Ord. ID: EZ 3303640

Preservation non-conformance identified for sample.

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Composite Start Date	Composite Start Time	Collected or Composite End Date	Collected or Composite End Time	# Cont.	Res. Chlorine Results	Res. Chlorine Units	App III and Cat/An Metals*	App IV Metals**	UWL Metals***	COD & TOC	Cl/F/SO4/TDS/Alkalinity	Radium 226/228	Total Organic Halogens	Sample Comment
L-AM-1S	WT	G			10/20/25	1309	6			✓	✓	✓	✓	✓	✓	✓	
L-AM-1D	WT	G			10/20/25	1113	6			✓	✓	✓	✓	✓	✓	✓	
L-CA-DUP-1	WT	G			10/20/25	—	6			✓	✓	✓	✓	✓	✓	✓	
L-CA-DUP-2	WT	G			10/20/25	—	6			✓	✓	✓	✓	✓	✓	✓	
L-CA-DUP-3	WT	G			10/20/25	—	6			✓	✓	✓	✓	✓	✓	✓	
L-CA-FB-1	WT																
L-CA-FB-2	WT	G			10/20/25	1300	6			✓	✓	✓	✓	✓	✓	✓	
L-CA-FB-3	WT	G			10/21/25	1410	6			✓	✓	✓	✓	✓	✓	✓	
L-MS-1	WT																
L-MSD-1	WT																

Additional Instructions from Pace®:
App III and Cat/An Metals - EPA 200.7: B, Ca, Fe, Mg, Mn, K, Na
**App IV Metals - EPA 200.7 -Ba,Be,Co,Pb,Li,Mo and 200.8 Metals - Sb, As,Cd,Cr,Se,Tl +7470 Hg
***UWL Metals - 200.7: Al, Cu, Ni, Ag, Zn+ Hardness

Collected By: (Printed Name) John Ramsey
Signature:

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)	On Ice:
11	T-301	0.0	0.8	0.8	

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
	10/21/25 1600		10/22 0850
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

Tracking Number:

Delivered by: [ ] In- Person [ ] Courier
[ ] FedEx [ ] UPS [ ] Other

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

Pace® Location Requested (City/State):
Pace Analytical Kansas
9608 Loiret Blvd., Lenexa, KS 66219

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

6048443I

Scan QR Code for instructions

Company Name:	Rocksmith Geoengineering, LLC.	Contact/Report To:	Mark Haddock
Street Address:	2320 Creve Coeur Mill Road Maryland Heights, MO 63043	Phone #:	314-974-6578
		E-Mail:	mark.haddock@rocksmithgeo.com
		Cc E-Mail:	
Customer Project #:			
Project Name:	AMEREN LCPA-CA	Invoice To:	Mark Haddock
		Invoice E-Mail:	mark.haddock@rocksmithgeo.com
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [ ] ET

County / State origin of sample(s): Missouri

Data Deliverables:
[ ] Level II [ ] Level III [ ] Level IV
[ ] EQUIS
[ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [ ] Yes [ ] No

Rush (Pre-approval required):
[ ] Same Day [ ] 1 Day [ ] 2 Day [ ] 3 Day [ ] Other _____

DW PWSID # or WW Permit # as applicable:

Date Results Requested:

Field Filtered (if applicable): [ ] Yes [ ] No
Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Composite Start Date	Composite Start Time	Collected or Composite End Date	Collected or Composite End Time	# Cont.	Res. Chlorine Results	Res. Chlorine Units	App III and Cat/An Metals*	App IV Metals**	UWL Metals***	COD & TOC	Cl/F/SO4/TDS/Alkalinity	Radium 226/228	Total Organic Halogens	Sample Comment
L-MS-2	WT	G			10/20/25	1127	6			✓	✓	✓	✓	✓	✓	✓	Taken @ TP-21
L-MSD-2	WT	G			"	"	6			✓	✓	✓	✓	✓	✓	✓	"

Specify Container Size **

Identify Container Preservative Type***

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) 90mL, (10) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only

Proj. Mgr: Jamie Church
AcctNum / Client ID:
Table #:
Profile / Template: 15857
Prelog / Bottle Ord. ID: EZ 3303640

Preservation non-conformance identified for sample:

Additional Instructions from Pace®:
***App III and Cat/An Metals* - EPA 200.7: B, Ca, Fe, Mg, Mn, K, Na**
****App IV Metals - EPA 200.7 -Ba,Be,Co,Pb,Li,Mo and 200.8 Metals - Sb, As,Cd,Cr,Se,Tl +7470 Hg**
*****UWL Metals - 200.7: Al, Cu, Ni, Ag, Zn+ Hardness**

Collected By:
(Printed Name)
Signature:

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)	On Ice:
11	T-301	0.0	0.8	0.8	

	Date/Time:		Date/Time:	
Relinquished by/Company: (Signature)	10/21/25	Received by/Company: (Signature)	10/22 0850	Tracking Number:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Delivered by: [ ] In- Person [ ] Courier
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	[ ] FedEx [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: 4 of 4

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

ENV-FRM-CORQ-0019_v02_110123 ©

DC#_Title: ENV-FRM-LENE-0001 v07_Sample Container Count
Effective Date: 7/12/2024

1/4

Client: Rocksmith Geoeng

Profile/EZ # only print what you log.

Site:

Notes Append to 6a184431

COC Line Item	Matrix	VG9H	DG9H	DG9Q	VG9U	DG9U	DG9M	DG9B	BG1U	AG1H	AG1U	AG2U	AG3S	AG4U	AG5U	JGFU	WGKU	WGDU	BP1U	BP2U	BP3U	BP1N	BP3N	BP3F	BP3S	BP3B	BP3Z	WPDU	ZPLC	Other		
1	WT												2						-			2	-								
2	↓												↓						↓			↓	↓								
3	↓												↓						↓			↓	↓								
4																																
5	WT												↓						↓			↓	↓								
6																																
7																																
8																																
9	WT												↓						↓			↓	↓								
10	↓												↓						↓			↓	↓								
11																																
12																																

Container Codes

Glass			
DG9B	40mL bisulfate clear vial	WGKU	8oz clear soil jar
DG9H	40mL HCl amber voa vial	WGFU	4oz clear soil jar
DG9M	40mL MeOH clear vial	WG2U	2oz clear soil jar
DG9Q	40mL TSP amber vial	JGFU	4oz unpreserved amber wide
DG9S	40mL H2SO4 amber vial	AG0U	100mL unores amber glass
DG9T	40mL Na Thio amber vial	AG1H	1L HCl amber glass
DG9U	40mL amber unpreserved	AG1S	1L H2SO4 amber glass
VG9H	40mL HCl clear vial	AG1T	1L Na Thiosulfate clear/amber glass
VG9T	40mL Na Thio. clear vial	AG1U	1liter unpres amber glass
VG9U	40mL unpreserved clear vial	AG2N	500mL HNO3 amber glass
BG1S	1liter H2SO4 clear glass	AG2S	500mL H2SO4 amber glass
BG1U	1liter unpres glass	AG3S	250mL H2SO4 amber glass
BG3H	250mL HCL Clear glass	AG2U	500mL unpres amber glass
BG3U	250mL Unpres Clear glass	AG3U	250mL unpres amber glass
WGDU	16oz clear soil jar	AG4U	125mL unpres amber glass
		AG5U	100mL unpres amber glass

Plastic	
BP1B	1L NAOH plastic
BP1N	1L HNO3 plastic
BP1S	1L H2SO4 plastic
BP1U	1L unpreserved plastic
BP1Z	1L NaOH, Zn Acetate
BP2B	500mL NAOH plastic
BP2N	500mL HNO3 plastic
BP2S	500mL H2SO4 plastic
BP2U	500mL unpreserved plastic
BP2Z	500mL NaOH, Zn Acetate
BP3B	250mL NaOH plastic
BP3F	250mL HNO3 plastic - field filtered
BP3N	250mL HNO3 plastic
BP3U	250mL unpreserved plastic
BP3S	250mL H2SO4 plastic
BP3Z	250mL NaOH, Zn Acetate
BP4U	125mL unpreserved plastic
BP4N	125mL HNO3 plastic
BP4S	125mL H2SO4 plastic
WPDU	16oz unpresserved plstic

Misc.	
I	Wipe/Swab
SP5T	120mL Coliform Na Thiosulfate
ZPLC	Ziploc Bag
AF	Air Filter
C	Air Cassettes
R	Terracore Kit
U	Summa Can

Matrix	
WT	Water
SL	Solid
NAL	Non-aqueous Liquid
OL	OIL
WP	Wipe
DW	Drinking Water

Work Order Number: 6a184431

2/4

Client: Rocksmith Geoeng

Profile/EZ #

Site:

Notes

COC Line Item	Matrix	VG9H	DG9H	DG9Q	VG9U	DG9U	DG9M	DG9B	BG1U	AG1H	AG1U	AG2U	AG3S	AG4U	AG5U	JGFU	WGKU	WGDU	BP1U	BP2U	BP3U	BP1N	BP3N	BP3F	BP3S	BP3B	BP3Z	WPDU	ZPLC	Other		
1																																
2																																
3	WT												2						1			2	1										
4	↓												↓						↓			↓	↓										
5																																
6													6						3				3			(MS/MSD)						
7													2						1				-									
8																																
9																																
10																																
11																																
12																																

Container Codes

Glass			
DG9B	40mL bisulfate clear vial	WGKU	8oz clear soil jar
DG9H	40mL HCl amber voa vial	WGFU	4oz clear soil jar
DG9M	40mL MeOH clear vial	WG2U	2oz clear soil jar
DG9Q	40mL TSP amber vial	JGFU	4oz unpreserved amber wide
DG9S	40mL H2SO4 amber vial	AG0U	100mL unores amber glass
DG9T	40mL Na Thio amber vial	AG1H	1L HCl amber glass
DG9U	40mL amber unpreserved	AG1S	1L H2SO4 amber glass
VG9H	40mL HCl clear vial	AG1T	1L Na Thiosulfate clear/amber glass
VG9T	40mL Na Thio. clear vial	AG1U	1liter unpres amber glass
VG9U	40mL unpreserved clear vial	AG2N	500mL HNO3 amber glass
BG1S	1liter H2SO4 clear glass	AG2S	500mL H2SO4 amber glass
BG1U	1liter unpres glass	AG3S	250mL H2SO4 amber glass
BG3H	250mL HCL Clear glass	AG2U	500mL unpres amber glass
BG3U	250mL Unpres Clear glass	AG3U	250mL unpres amber glass
WGDU	16oz clear soil jar	AG4U	125mL unpres amber glass
		AG5U	100mL unpres amber glass

Plastic	
BP1B	1L NAOH plastic
BP1N	1L HNO3 plastic
BP1S	1L H2SO4 plastic
BP1U	1L unpreserved plastic
BP1Z	1L NaOH, Zn Acetate
BP2B	500mL NAOH plastic
BP2N	500mL HNO3 plastic
BP2S	500mL H2SO4 plastic
BP2U	500mL unpreserved plastic
BP2Z	500mL NaOH, Zn Acetate
BP3B	250mL NaOH plastic
BP3F	250mL HNO3 plastic - field filtered
BP3N	250mL HNO3 plastic
BP3U	250mL unpreserved plastic
BP3S	250mL H2SO4 plastic
BP3Z	250mL NaOH, Zn Acetate
BP4U	125mL unpreserved plastic
BP4N	125mL HNO3 plastic
BP4S	125mL H2SO4 plastic
WPDU	16oz unpresserved plstic

Misc.	
I	Wipe/Swab
SP5T	120mL Coliform Na Thiosulfate
ZPLC	Ziploc Bag
AF	Air Filter
C	Air Cassettes
R	Terracore Kit
U	Summa Can

Matrix	
WT	Water
SL	Solid
NAL	Non-aqueous Liquid
OL	OIL
WP	Wipe
DW	Drinking Water

Work Order Number: 6048443

3/4

Client: Rocksmith Geceng

Profile/EZ #:

Site:

Notes:

COC Line Item	Matrix	VG9H	DG9H	DG9Q	VG9U	DG9U	DG9M	DG9B	BG1U	AG1H	AG1U	AG2U	AG3S	AG4U	AG5U	JGFU	WGKU	WGDU	BP1U	BP2U	BP3U	BP1N	BP3N	BP3F	BP3S	BP3B	BP3Z	WPDU	ZPLC	Other		
1	WT												2						1			2	1									
2	↓												↓						↓			↓	↓									
3	↓												↓						↓			↓	↓									
4	↓												↓						↓			↓	↓									
5	↓												↓						↓			↓	↓									
6																																
7	↓												↓						↓			↓	↓									
8	↓												↓						↓			↓	↓									
9																																
10																																
11																																
12																																

Container Codes

Glass			
DG9B	40mL bisulfate clear vial	WGKU	8oz clear soil jar
DG9H	40mL HCl amber voa vial	WGFU	4oz clear soil jar
DG9M	40mL MeOH clear vial	WG2U	2oz clear soil jar
DG9Q	40mL TSP amber vial	JGFU	4oz unpreserved amber wide
DG9S	40mL H2SO4 amber vial	AG0U	100mL unores amber glass
DG9T	40mL Na Thio amber vial	AG1H	1L HCl amber glass
DG9U	40mL amber unpreserved	AG1S	1L H2SO4 amber glass
VG9H	40mL HCl clear vial	AG1T	1L Na Thiosulfate clear/amber glass
VG9T	40mL Na Thio. clear vial	AG1U	1liter unpres amber glass
VG9U	40mL unpreserved clear vial	AG2N	500mL HNO3 amber glass
BG1S	1liter H2SO4 clear glass	AG2S	500mL H2SO4 amber glass
BG1U	1liter unpres glass	AG3S	250mL H2SO4 amber glass
BG3H	250mL HCL Clear glass	AG2U	500mL unpres amber glass
BG3U	250mL Unpres Clear glass	AG3U	250mL unpres amber glass
WGDU	16oz clear soil jar	AG4U	125mL unpres amber glass
		AG5U	100mL unpres amber glass

Plastic	
BP1B	1L NAOH plastic
BP1N	1L HNO3 plastic
BP1S	1L H2SO4 plastic
BP1U	1L unpreserved plastic
BP1Z	1L NaOH, Zn Acetate
BP2B	500mL NAOH plastic
BP2N	500mL HNO3 plastic
BP2S	500mL H2SO4 plastic
BP2U	500mL unpreserved plastic
BP2Z	500mL NaOH, Zn Acetate
BP3B	250mL NaOH plastic
BP3F	250mL HNO3 plastic - field filtered
BP3N	250mL HNO3 plastic
BP3U	250mL unpreserved plastic
BP3S	250mL H2SO4 plastic
BP3Z	250mL NaOH, Zn Acetate
BP4U	125mL unpreserved plastic
BP4N	125mL HNO3 plastic
BP4S	125mL H2SO4 plastic
WPDU	16oz unpresserved plstic

Misc.	
I	Wipe/Swab
SP5T	120mL Coliform Na Thiosulfate
ZPLC	Ziploc Bag
AF	Air Filter
C	Air Cassettes
R	Terracore Kit
U	Summa Can

Matrix	
WT	Water
SL	Solid
NAL	Non-aqueous Liquid
OL	OIL
WP	Wipe
DW	Drinking Water

Work Order Number: 60484431

4/4

Client: Rocksmith Geoeng

Profile/EZ #

Site:

Notes

COC Line Item	Matrix	VG9H	DG9H	DG9Q	VG9U	DG9U	DG9M	DG9B	BG1U	AG1H	AG1U	AG2U	AG3S	AG4U	AG5U	JGFU	WGKU	WGDU	BP1U	BP2U	BP3U	BP1N	BP3N	BP3F	BP3S	BP3B	BP3Z	WPDU	ZPLC	Other		
1	WT																					2										
2	I																					2										
3																																
4																																
5																																
6																																
7																																
8																																
9																																
10																																
11																																
12																																

(Only log RAD)

Container Codes

Glass			
DG9B	40mL bisulfate clear vial	WGKU	8oz clear soil jar
DG9H	40mL HCl amber voa vial	WGFU	4oz clear soil jar
DG9M	40mL MeOH clear vial	WG2U	2oz clear soil jar
DG9Q	40mL TSP amber vial	JGFU	4oz unpreserved amber wide
DG9S	40mL H2SO4 amber vial	AG0U	100mL unores amber glass
DG9T	40mL Na Thio amber vial	AG1H	1L HCl amber glass
DG9U	40mL amber unpreserved	AG1S	1L H2SO4 amber glass
VG9H	40mL HCl clear vial	AG1T	1L Na Thiosulfate clear/amber glass
VG9T	40mL Na Thio. clear vial	AG1U	1liter unpres amber glass
VG9U	40mL unpreserved clear vial	AG2N	500mL HNO3 amber glass
BG1S	1liter H2SO4 clear glass	AG2S	500mL H2SO4 amber glass
BG1U	1liter unpres glass	AG3S	250mL H2SO4 amber glass
BG3H	250mL HCL Clear glass	AG2U	500mL unpres amber glass
BG3U	250mL Unpres Clear glass	AG3U	250mL unpres amber glass
WGDU	16oz clear soil jar	AG4U	125mL unpres amber glass
		AG5U	100mL unpres amber glass

Plastic	
BP1B	1L NAOH plastic
BP1N	1L HNO3 plastic
BP1S	1L H2SO4 plastic
BP1U	1L unpreserved plastic
BP1Z	1L NaOH, Zn Acetate
BP2B	500mL NAOH plastic
BP2N	500mL HNO3 plastic
BP2S	500mL H2SO4 plastic
BP2U	500mL unpreserved plastic
BP2Z	500mL NaOH, Zn Acetate
BP3B	250mL NaOH plastic
BP3F	250mL HNO3 plastic - field filtered
BP3N	250mL HNO3 plastic
BP3U	250mL unpreserved plastic
BP3S	250mL H2SO4 plastic
BP3Z	250mL NaOH, Zn Acetate
BP4U	125mL unpreserved plastic
BP4N	125mL HNO3 plastic
BP4S	125mL H2SO4 plastic
WPDU	16oz unpresserved plstic

Misc.	
I	Wipe/Swab
SP5T	120mL Coliform Na Thiosulfate
ZPLC	Ziploc Bag
AF	Air Filter
C	Air Cassettes
R	Terracore Kit
U	Summa Can

Matrix	
WT	Water
SL	Solid
NAL	Non-aqueous Liquid
OL	OIL
WP	Wipe
DW	Drinking Water

Work Order Number: 60484431

WO# : 60484431

60484431

Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-LENE-0009_Sample Condi		
	Revision: 3	Effective Date: 09/22/2025	Issued By: Lenexa

Client Name: Rocksmith Brewing

Courier: FedEx ☐ UPS ☐ VIA ☐ Clay ☐ PEX ☐ ECI ☐ Pace ☐ Xroads ☑ Client ☐ Other ☐

Tracking #: _____ Pace Shipping Label Used? Yes ☐ No ☑

Custody Seal on Cooler/Box Present: Yes ☑ No ☐ Seals intact: Yes ☑ No ☐ Cooling process has begun ☐

Packing Material: Bubble Wrap ☐ Bubble Bags ☑ Foam ☐ None ☐ Other ☐

Thermometer Used: T-301 **Type of Ice:** Wet ☑ Blue None

Cooler Temperature (°C): **As-read** 0.8 **Corr. Factor** 0.0 **Corrected** 0.8

Date and initials of person examining contents: PV 10/22/25

Temperature should be above freezing to 6°C

Chain of Custody present:	☑Yes ☐No ☐N/A	0.5/0.3/0.9/0.6/16.7
Chain of Custody relinquished:	☑Yes ☐No ☐N/A	15.4/14.0/2.1/14.3/13.5
Samples arrived within holding time:	☑Yes ☐No ☐N/A	
Short Hold Time analyses (<72hr):	☐Yes ☑No ☐N/A	
Rush Turn Around Time requested:	☐Yes ☑No ☐N/A	
Sufficient volume:	☑Yes ☐No ☐N/A	
Correct containers used:	☑Yes ☐No ☐N/A	
Pace containers used:	☑Yes ☐No ☐N/A	
Containers intact:	☑Yes ☐No ☐N/A	
Unpreserved 5035A / TX1005/1006 soils frozen in 48hrs?	☐Yes ☐No ☑N/A	
Filtered volume received for dissolved tests?	☐Yes ☑No ☐N/A	
Sample labels match COC: Date / time / ID / analyses	☑Yes ☐No ☐N/A	
Samples contain multiple phases? Matrix: WT	☐Yes ☑No ☐N/A	
Containers requiring pH preservation in compliance? (HNO_3, H_2SO_4, HCl<2; NaOH>9 Sulfide, NaOH>10 Cyanide) (Exceptions: VOA, Micro, O&G, KS TPH, Radium) **LOT#:** 96888	☑Yes ☐No ☐N/A	List sample IDs, volumes, lot #'s of preservative and the date/time added.
Cyanide water sample checks: Lead acetate strip turns dark? (Record only)	☐Yes ☐No	
Potassium iodide test strip turns blue/purple? (Preserve)	☐Yes ☐No	
Trip Blank present:	☐Yes ☐No ☑N/A	
Headspace in VOA vials (>6mm):	☐Yes ☐No ☑N/A	
Samples from USDA Regulated Area: State:	☐Yes ☐No ☑N/A	
Additional labels attached to 5035A / TX1005 vials in the field?	☐Yes ☐No ☑N/A	

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: _____

Pace® Location Requested (City/State):
Pace Analytical Kansas
9608 Loiret Blvd., Lenexa, KS 66219

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

60484431

Scan QR Code for instructions

Company Name:	Rocksmith Geoengineering, LLC.	Contact/Report To:	Mark Haddock
Street Address:	2320 Creve Coeur Mill Road Maryland Heights, MO 63043	Phone #:	314-974-6578
		E-Mail:	mark.haddock@rocksmithgeo.com
		Cc E-Mail:	
Customer Project #:			
Project Name:	AMEREN LCPA-CA	Invoice To:	Mark Haddock
		Invoice E-Mail:	mark.haddock@rocksmithgeo.com
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [ ] ET

County / State origin of sample(s): Missouri

Data Deliverables:
[ ] Level II [ ] Level III [ ] Level IV
[ ] EQUIS
[ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [ ] Yes [ ] No

Rush (Pre-approval required):
[ ] Same Day [ ] 1 Day [ ] 2 Day [ ] 3 Day [ ] Other _____

DW PWSID # or WW Permit # as applicable:

Date Results Requested:

Field Filtered (if applicable): [ ] Yes [ ] No
Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

Specify Container Size **

Identify Container Preservative Type***

Analysis Requested

Customer Sample ID	Matrix *	Comp / Grab	Composite Start Date	Composite Start Time	Collected or Composite End Date	Collected or Composite End Time	# Cont.	Res. Chlorine Results	Res. Chlorine Units	App III and Cat/An Metals*	App IV Metals**	UWL Metals***	COD & TOC	Cl/F/SO4/TDS/Alkalinity	Radium 226/228	Total Organic Halogens	Sample Comment	Preservation non-conformance identified for sample.
L-AMW-8	WT	G			10/21/25	1430	6			✓	✓	✓	✓	✓	✓	✓		
L-BMW-1S	WT	G			10/21/25	1106	6			✓	✓	✓	✓	✓	✓	✓		
L-BMW-2S	WT	G			10/21/25	0905	6			✓	✓	✓	✓	✓	✓	✓		
L-LMW-1S	WT																	
L-LMW-2S	WT	G			10/20/25	1510	6			✓	✓	✓	✓	✓	✓	✓		
L-LMW-4S	WT																	
L-LMW-7S	WT																	
L-LMW-8S	WT																	
L-MW-24	WT	G			10/21/25	1249	6			✓	✓	✓	✓	✓	✓	✓		
L-MW-26	WT	G			10/21/25	1202	6			✓	✓	✓	✓	✓	✓	✓		

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) 90mL, (10) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only
Proj. Mgr: Jamie Church
AcctNum / Client ID:
Table #:
Profile / Template: 15857
Prelog / Bottle Ord. ID: EZ 3303640

Additional Instructions from Pace®:
App III and Cat/An Metals - EPA 200.7: B, Ca, Fe, Mg, Mn, K, Na
**App IV Metals - EPA 200.7 -Ba,Be,Co,Pb,Li,Mo and 200.8 Metals - Sb, As,Cd,Cr,Se,Tl +7470 Hg
***UWL Metals - 200.7: Al, Cu, Ni, Ag, Zn+ Hardness

Collected By:
(Printed Name) John Rasmussen
Signature:

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)	On Ice:
11	T-301	0.0	0.8	0.8	

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
Rasmussen	10/21/25 1600		10/22 0850	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Delivered by: [ ] In- Person [ ] Courier
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	[ ] FedEX [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: 1 of 4

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

Pace® Location Requested (City/State):
Pace Analytical Kansas
9608 Loiret Blvd., Lenexa, KS 66219

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

60484431

Scan QR Code for instructions

Company Name:	Rocksmith Geoengineering, LLC.	Contact/Report To:	Mark Haddock
Street Address:	2320 Creve Coeur Mill Road Maryland Heights, MO 63043	Phone #:	314-974-6578
		E-Mail:	mark.haddock@rocksmithgeo.com
		Cc E-Mail:	
Customer Project #:			
Project Name:	AMEREN LCPA-CA	Invoice To:	Mark Haddock
		Invoice E-Mail:	mark.haddock@rocksmithgeo.com
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [ ] ET

County / State origin of sample(s): Missouri

Data Deliverables:
[ ] Level II [ ] Level III [ ] Level IV
[ ] EQUIS
[ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [ ] Yes [ ] No

Rush (Pre-approval required):
[ ] Same Day [ ] 1 Day [ ] 2 Day [ ] 3 Day [ ] Other _____

DW PWSID # or WW Permit # as applicable:

Date Results Requested:

Field Filtered (if applicable): [ ] Yes [ ] No
Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

Specify Container Size **

Identify Container Preservative Type***

Analysis Requested

Customer Sample ID	Matrix *	Comp / Grab	Composite Start Date	Composite Start Time	Collected or Composite End Date	Collected or Composite End Time	# Cont.	Res. Chlorine Results	Res. Chlorine Units	App III and Cat/An Metals*	App IV Metals**	UWL Metals***	COD & TOC	Cl/F/SO4/TDS/Alkalinity	Radium 226/228	Total Organic Halogens	Sample Comment	Preservation non-conformance identified for sample.
L-MW-33(D)	WT																	
L-MW-34(D)	WT																	
L-MW-35(D)	WT	G			10/21/25	1327	6			✓	✓	✓	✓	✓	✓	✓		
L-S-1	WT	G			10/21/25	1416	6			✓	✓	✓	✓	✓	✓	✓		
L-TP-1D	WT	G			10/20/25	1350	6			✓	✓	✓	✓	✓	✓	✓		
L-TP-2M	WT	G			10/20/25	1127	6			✓	✓	✓	✓	✓	✓	✓		
L-TP-2D	WT	G			10/20/25	0957	6			✓	✓	✓	✓	✓	✓	✓		
L-TP-3M	WT																	
L-TP-3D	WT																	
L-TP-4D	WT																	

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) 90mL, (10) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only
Proj. Mgr: Jamie Church
AcctNum / Client ID:
Table #:
Profile / Template: 15857
Prelog / Bottle Ord. ID: EZ 3303640

Additional Instructions from Pace®:
App III and Cat/An Metals - EPA 200.7: B, Ca, Fe, Mg, Mn, K, Na
**App IV Metals - EPA 200.7 -Ba,Be,Co,Pb,Li,Mo and 200.8 Metals - Sb, As,Cd,Cr,Se,Tl +7470 Hg
***UWL Metals - 200.7: Al, Cu, Ni, Ag, Zn+ Hardness

Collected By:
(Printed Name) John Rasmussen
Signature:

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)	On Ice:
11	T-301	0.0	0.8	0.8	

Relinquished by/Company: (Signature)	Date/Time: 10/21/25 1600	Received by/Company: (Signature)	Date/Time:	Tracking Number:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Delivered by: [ ] In- Person [ ] Courier
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	[ ] FedEX [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: 2 of 4

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

ENV-FRM-CORQ-0019_v02_110123 ©

Pace® Location Requested (City/State):
Pace Analytical Kansas
9608 Loiret Blvd., Lenexa, KS 66219

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

60484431

Scan QR Code for instructions

Company Name:	Rocksmith Geoengineering, LLC.	Contact/Report To:	Mark Haddock
Street Address:	2320 Creve Coeur Mill Road Maryland Heights, MO 63043	Phone #:	314-974-6578
		E-Mail:	mark.haddock@rocksmithgeo.com
		Cc E-Mail:	
Customer Project #:			
Project Name:	AMEREN LCPA-CA	Invoice To:	Mark Haddock
		Invoice E-Mail:	mark.haddock@rocksmithgeo.com
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [ ] ET

County / State origin of sample(s): Missouri

Data Deliverables:
[ ] Level II [ ] Level III [ ] Level IV
[ ] EQUIS
[ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [ ] Yes [ ] No

Rush (Pre-approval required):
[ ] Same Day [ ] 1 Day [ ] 2 Day [ ] 3 Day [ ] Other _____

DW PWSID # or WW Permit # as applicable:

Date Results Requested:

Field Filtered (if applicable): [ ] Yes [ ] No
Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

Specify Container Size **

Identify Container Preservative Type***

Analysis Requested

Customer Sample ID	Matrix *	Comp / Grab	Composite Start Date	Composite Start Time	Collected or Composite End Date	Collected or Composite End Time	# Cont.	Res. Chlorine Results	Res. Chlorine Units	App III and Cat/An Metals*	App IV Metals**	UWL Metals***	COD & TOC	Cl/F/SO4/TDS/Alkalinity	Radium 226/228	Total Organic Halogens	Sample Comment
L-AM-1S	WT	G			10/20/25	1309	6			✓	✓	✓	✓	✓	✓	✓	
L-AM-1D	WT	G			10/20/25	1113	6			✓	✓	✓	✓	✓	✓	✓	
L-CA-DUP-1	WT	G			10/20/25	—	6			✓	✓	✓	✓	✓	✓	✓	
L-CA-DUP-2	WT	G			10/20/25	—	6			✓	✓	✓	✓	✓	✓	✓	
L-CA-DUP-3	WT	G			10/20/25	—	6			✓	✓	✓	✓	✓	✓	✓	
L-CA-FB-1	WT																
L-CA-FB-2	WT	G			10/20/25	1300	6			✓	✓	✓	✓	✓	✓	✓	
L-CA-FB-3	WT	G			10/21/25	1410	6			✓	✓	✓	✓	✓	✓	✓	
L-MS-1	WT																
L-MSD-1	WT																

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) 90mL, (10) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only
Proj. Mgr: Jamie Church
AcctNum / Client ID:
Table #:
Profile / Template: 15857
Prelog / Bottle Ord. ID: EZ 3303640

Preservation non-conformance identified for sample.

Additional Instructions from Pace®:
App III and Cat/An Metals - EPA 200.7: B, Ca, Fe, Mg, Mn, K, Na
**App IV Metals - EPA 200.7 -Ba,Be,Co,Pb,Li,Mo and 200.8 Metals - Sb, As,Cd,Cr,Se,Tl +7470 Hg
***UWL Metals - 200.7: Al, Cu, Ni, Ag, Zn+ Hardness

Collected By: (Printed Name) John Ramsey
Signature:

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)	On Ice:
11	T-301	0.0	0.8	0.8	

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Delivered by: [ ] In- Person [ ] Courier
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	[ ] FedEx [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: 3 of 4

Relinquished by: 10/21/25 1600
Received by: 10/22 0850

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

ENV-FRM-CORQ-0019_v02_110123 ©

Pace® Location Requested (City/State):
Pace Analytical Kansas
9608 Loiret Blvd., Lenexa, KS 66219

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

6048443I

Scan QR Code for instructions

Company Name:	Rocksmith Geoengineering, LLC.	Contact/Report To:	Mark Haddock
Street Address:	2320 Creve Coeur Mill Road Maryland Heights, MO 63043	Phone #:	314-974-6578
		E-Mail:	mark.haddock@rocksmithgeo.com
		Cc E-Mail:	
Customer Project #:			
Project Name:	AMEREN LCPA-CA	Invoice To:	Mark Haddock
		Invoice E-Mail:	mark.haddock@rocksmithgeo.com
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [ ] ET

County / State origin of sample(s): Missouri

Data Deliverables:
[ ] Level II [ ] Level III [ ] Level IV
[ ] EQUIS
[ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [ ] Yes [ ] No

Rush (Pre-approval required):
[ ] Same Day [ ] 1 Day [ ] 2 Day [ ] 3 Day [ ] Other _____

DW PWSID # or WW Permit # as applicable:

Date Results Requested:

Field Filtered (if applicable): [ ] Yes [ ] No
Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

Specify Container Size **

Identify Container Preservative Type***

Analysis Requested

Customer Sample ID	Matrix *	Comp / Grab	Composite Start Date	Composite Start Time	Collected or Composite End Date	Collected or Composite End Time	# Cont.	Res. Chlorine Results	Res. Chlorine Units	App III and Cat/An Metals*	App IV Metals**	UWL Metals***	COD & TOC	Cl/F/SO4/TDS/Alkalinity	Radium 226/228	Total Organic Halogens	Sample Comment
L-MS-2	WT	G			10/20/25	1127	6			✓	✓	✓	✓	✓	✓	✓	Taken @ TP-21
L-MSD-2	WT	G			"	"	6			✓	✓	✓	✓	✓	✓	✓	"

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) 90mL, (10) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only

Proj. Mgr: Jamie Church
AcctNum / Client ID:
Table #:
Profile / Template: 15857
Prelog / Bottle Ord. ID: EZ 3303640

Preservation non-conformance identified for sample:

Additional Instructions from Pace®:
***App III and Cat/An Metals* - EPA 200.7: B, Ca, Fe, Mg, Mn, K, Na**
****App IV Metals - EPA 200.7 -Ba,Be,Co,Pb,Li,Mo and 200.8 Metals - Sb, As,Cd,Cr,Se,Tl +7470 Hg**
*****UWL Metals - 200.7: Al, Cu, Ni, Ag, Zn+ Hardness**

Collected By:
(Printed Name)
Signature:

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)	On Ice:
11	T-301	0.0	0.8	0.8	

	Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
1		10/21/25		10/22 0850
2	Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
3	Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
4	Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

Tracking Number:

Delivered by: [ ] In- Person [ ] Courier
[ ] FedEX [ ] UPS [ ] Other

Page: 4 of 4

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

DC#_Title: ENV-FRM-LENE-0001 v07_Sample Container Count
Effective Date: 7/12/2024

1/4

Client: Rocksmith Geoeng

Profile/EZ # only print what you log.

Site:

Notes Append to 6a184431

COC Line Item	Matrix	VG9H	DG9H	DG9Q	VG9U	DG9U	DG9M	DG9B	BG1U	AG1H	AG1U	AG2U	AG3S	AG4U	AG5U	JGFU	WGKU	WGDU	BP1U	BP2U	BP3U	BP1N	BP3N	BP3F	BP3S	BP3B	BP3Z	WPDU	ZPLC	Other		
1	WT												2						-			2	-									
2	↓												↓						↓			↓	↓									
3	↓												↓						↓			↓	↓									
4																																
5	WT												↓						↓			↓	↓									
6																																
7																																
8																																
9	WT												↓						↓			↓	↓									
10	↓												↓						↓			↓	↓									
11																																
12																																

Container Codes

Glass			
DG9B	40mL bisulfate clear vial	WGKU	8oz clear soil jar
DG9H	40mL HCl amber voa vial	WGFU	4oz clear soil jar
DG9M	40mL MeOH clear vial	WG2U	2oz clear soil jar
DG9Q	40mL TSP amber vial	JGFU	4oz unpreserved amber wide
DG9S	40mL H2SO4 amber vial	AG0U	100mL unores amber glass
DG9T	40mL Na Thio amber vial	AG1H	1L HCl amber glass
DG9U	40mL amber unpreserved	AG1S	1L H2SO4 amber glass
VG9H	40mL HCl clear vial	AG1T	1L Na Thiosulfate clear/amber glass
VG9T	40mL Na Thio. clear vial	AG1U	1liter unpres amber glass
VG9U	40mL unpreserved clear vial	AG2N	500mL HNO3 amber glass
BG1S	1liter H2SO4 clear glass	AG2S	500mL H2SO4 amber glass
BG1U	1liter unpres glass	AG3S	250mL H2SO4 amber glass
BG3H	250mL HCL Clear glass	AG2U	500mL unpres amber glass
BG3U	250mL Unpres Clear glass	AG3U	250mL unpres amber glass
WGDU	16oz clear soil jar	AG4U	125mL unpres amber glass
		AG5U	100mL unpres amber glass

Plastic	
BP1B	1L NAOH plastic
BP1N	1L HNO3 plastic
BP1S	1L H2SO4 plastic
BP1U	1L unpreserved plastic
BP1Z	1L NaOH, Zn Acetate
BP2B	500mL NAOH plastic
BP2N	500mL HNO3 plastic
BP2S	500mL H2SO4 plastic
BP2U	500mL unpreserved plastic
BP2Z	500mL NaOH, Zn Acetate
BP3B	250mL NaOH plastic
BP3F	250mL HNO3 plastic - field filtered
BP3N	250mL HNO3 plastic
BP3U	250mL unpreserved plastic
BP3S	250mL H2SO4 plastic
BP3Z	250mL NaOH, Zn Acetate
BP4U	125mL unpreserved plastic
BP4N	125mL HNO3 plastic
BP4S	125mL H2SO4 plastic
WPDU	16oz unpresserved plstic

Misc.	
I	Wipe/Swab
SP5T	120mL Coliform Na Thiosulfate
ZPLC	Ziploc Bag
AF	Air Filter
C	Air Cassettes
R	Terracore Kit
U	Summa Can

Matrix	
WT	Water
SL	Solid
NAL	Non-aqueous Liquid
OL	OIL
WP	Wipe
DW	Drinking Water

Work Order Number: 6a184431

2/4

Client: Rocksmith Geoeng

Profile/EZ #

Site:

Notes

COC Line Item	Matrix	VG9H	DG9H	DG9Q	VG9U	DG9U	DG9M	DG9B	BG1U	AG1H	AG1U	AG2U	AG3S	AG4U	AG5U	JGFU	WGKU	WGDU	BP1U	BP2U	BP3U	BP1N	BP3N	BP3F	BP3S	BP3B	BP3Z	WPDU	ZPLC	Other		
1																																
2																																
3	WT												2						1			2	1										
4	↓												↓						↓			↓	↓										
5																																
6													6						3				3			(MS/MSD)						
7													2						1				-									
8																																
9																																
10																																
11																																
12																																

Container Codes

Glass			
DG9B	40mL bisulfate clear vial	WGKU	8oz clear soil jar
DG9H	40mL HCl amber voa vial	WGFU	4oz clear soil jar
DG9M	40mL MeOH clear vial	WG2U	2oz clear soil jar
DG9Q	40mL TSP amber vial	JGFU	4oz unpreserved amber wide
DG9S	40mL H2SO4 amber vial	AG0U	100mL unores amber glass
DG9T	40mL Na Thio amber vial	AG1H	1L HCl amber glass
DG9U	40mL amber unpreserved	AG1S	1L H2SO4 amber glass
VG9H	40mL HCl clear vial	AG1T	1L Na Thiosulfate clear/amber glass
VG9T	40mL Na Thio. clear vial	AG1U	1liter unpres amber glass
VG9U	40mL unpreserved clear vial	AG2N	500mL HNO3 amber glass
BG1S	1liter H2SO4 clear glass	AG2S	500mL H2SO4 amber glass
BG1U	1liter unpres glass	AG3S	250mL H2SO4 amber glass
BG3H	250mL HCL Clear glass	AG2U	500mL unpres amber glass
BG3U	250mL Unpres Clear glass	AG3U	250mL unpres amber glass
WGDU	16oz clear soil jar	AG4U	125mL unpres amber glass
		AG5U	100mL unpres amber glass

Plastic	
BP1B	1L NAOH plastic
BP1N	1L HNO3 plastic
BP1S	1L H2SO4 plastic
BP1U	1L unpreserved plastic
BP1Z	1L NaOH, Zn Acetate
BP2B	500mL NAOH plastic
BP2N	500mL HNO3 plastic
BP2S	500mL H2SO4 plastic
BP2U	500mL unpreserved plastic
BP2Z	500mL NaOH, Zn Acetate
BP3B	250mL NaOH plastic
BP3F	250mL HNO3 plastic - field filtered
BP3N	250mL HNO3 plastic
BP3U	250mL unpreserved plastic
BP3S	250mL H2SO4 plastic
BP3Z	250mL NaOH, Zn Acetate
BP4U	125mL unpreserved plastic
BP4N	125mL HNO3 plastic
BP4S	125mL H2SO4 plastic
WPDU	16oz unpresserved plstic

Misc.	
I	Wipe/Swab
SP5T	120mL Coliform Na Thiosulfate
ZPLC	Ziploc Bag
AF	Air Filter
C	Air Cassettes
R	Terracore Kit
U	Summa Can

Matrix	
WT	Water
SL	Solid
NAL	Non-aqueous Liquid
OL	OIL
WP	Wipe
DW	Drinking Water

Work Order Number: 6048443

3/4

Client: Rocksmith Geceng

Profile/EZ #:

Site:

Notes:

COC Line Item	Matrix	VG9H	DG9H	DG9Q	VG9U	DG9U	DG9M	DG9B	BG1U	AG1H	AG1U	AG2U	AG3S	AG4U	AG5U	JGFU	WGKU	WGDU	BP1U	BP2U	BP3U	BP1N	BP3N	BP3F	BP3S	BP3B	BP3Z	WPDU	ZPLC	Other		
1	WT												2						1			2	1									
2	↓												↓						↓			↓	↓									
3	↓												↓						↓			↓	↓									
4	↓												↓						↓			↓	↓									
5	↓												↓						↓			↓	↓									
6																																
7	↓												↓						↓			↓	↓									
8	↓												↓						↓			↓	↓									
9																																
10																																
11																																
12																																

Container Codes

Glass			
DG9B	40mL bisulfate clear vial	WGKU	8oz clear soil jar
DG9H	40mL HCl amber voa vial	WGFU	4oz clear soil jar
DG9M	40mL MeOH clear vial	WG2U	2oz clear soil jar
DG9Q	40mL TSP amber vial	JGFU	4oz unpreserved amber wide
DG9S	40mL H2SO4 amber vial	AG0U	100mL unores amber glass
DG9T	40mL Na Thio amber vial	AG1H	1L HCl amber glass
DG9U	40mL amber unpreserved	AG1S	1L H2SO4 amber glass
VG9H	40mL HCl clear vial	AG1T	1L Na Thiosulfate clear/amber glass
VG9T	40mL Na Thio. clear vial	AG1U	1liter unpres amber glass
VG9U	40mL unpreserved clear vial	AG2N	500mL HNO3 amber glass
BG1S	1liter H2SO4 clear glass	AG2S	500mL H2SO4 amber glass
BG1U	1liter unpres glass	AG3S	250mL H2SO4 amber glass
BG3H	250mL HCL Clear glass	AG2U	500mL unpres amber glass
BG3U	250mL Unpres Clear glass	AG3U	250mL unpres amber glass
WGDU	16oz clear soil jar	AG4U	125mL unpres amber glass
		AG5U	100mL unpres amber glass

Plastic	
BP1B	1L NAOH plastic
BP1N	1L HNO3 plastic
BP1S	1L H2SO4 plastic
BP1U	1L unpreserved plastic
BP1Z	1L NaOH, Zn Acetate
BP2B	500mL NAOH plastic
BP2N	500mL HNO3 plastic
BP2S	500mL H2SO4 plastic
BP2U	500mL unpreserved plastic
BP2Z	500mL NaOH, Zn Acetate
BP3B	250mL NaOH plastic
BP3F	250mL HNO3 plastic - field filtered
BP3N	250mL HNO3 plastic
BP3U	250mL unpreserved plastic
BP3S	250mL H2SO4 plastic
BP3Z	250mL NaOH, Zn Acetate
BP4U	125mL unpreserved plastic
BP4N	125mL HNO3 plastic
BP4S	125mL H2SO4 plastic
WPDU	16oz unpresserved plstic

Misc.	
I	Wipe/Swab
SP5T	120mL Coliform Na Thiosulfate
ZPLC	Ziploc Bag
AF	Air Filter
C	Air Cassettes
R	Terracore Kit
U	Summa Can

Matrix	
WT	Water
SL	Solid
NAL	Non-aqueous Liquid
OL	OIL
WP	Wipe
DW	Drinking Water

Work Order Number: 60484431

4/4

Client: Rocksmith Geoeng

Profile/EZ #:

Site:

Notes

COC Line Item	Matrix	VG9H	DG9H	DG9Q	VG9U	DG9U	DG9M	DG9B	BG1U	AG1H	AG1U	AG2U	AG3S	AG4U	AG5U	JGFU	WGKU	WGDU	BP1U	BP2U	BP3U	BP1N	BP3N	BP3F	BP3S	BP3B	BP3Z	WPDU	ZPLC	Other		
1	WT																					2										
2	I																					2										
3																																
4																																
5																																
6																																
7																																
8																																
9																																
10																																
11																																
12																																

(Only log RAD)

Container Codes

Glass			
DG9B	40mL bisulfate clear vial	WGKU	8oz clear soil jar
DG9H	40mL HCl amber voa vial	WGFU	4oz clear soil jar
DG9M	40mL MeOH clear vial	WG2U	2oz clear soil jar
DG9Q	40mL TSP amber vial	JGFU	4oz unpreserved amber wide
DG9S	40mL H2SO4 amber vial	AG0U	100mL unores amber glass
DG9T	40mL Na Thio amber vial	AG1H	1L HCl amber glass
DG9U	40mL amber unpreserved	AG1S	1L H2SO4 amber glass
VG9H	40mL HCl clear vial	AG1T	1L Na Thiosulfate clear/amber glass
VG9T	40mL Na Thio. clear vial	AG1U	1liter unpres amber glass
VG9U	40mL unpreserved clear vial	AG2N	500mL HNO3 amber glass
BG1S	1liter H2SO4 clear glass	AG2S	500mL H2SO4 amber glass
BG1U	1liter unpres glass	AG3S	250mL H2SO4 amber glass
BG3H	250mL HCL Clear glass	AG2U	500mL unpres amber glass
BG3U	250mL Unpres Clear glass	AG3U	250mL unpres amber glass
WGDU	16oz clear soil jar	AG4U	125mL unpres amber glass
		AG5U	100mL unpres amber glass

Plastic	
BP1B	1L NAOH plastic
BP1N	1L HNO3 plastic
BP1S	1L H2SO4 plastic
BP1U	1L unpreserved plastic
BP1Z	1L NaOH, Zn Acetate
BP2B	500mL NAOH plastic
BP2N	500mL HNO3 plastic
BP2S	500mL H2SO4 plastic
BP2U	500mL unpreserved plastic
BP2Z	500mL NaOH, Zn Acetate
BP3B	250mL NaOH plastic
BP3F	250mL HNO3 plastic - field filtered
BP3N	250mL HNO3 plastic
BP3U	250mL unpreserved plastic
BP3S	250mL H2SO4 plastic
BP3Z	250mL NaOH, Zn Acetate
BP4U	125mL unpreserved plastic
BP4N	125mL HNO3 plastic
BP4S	125mL H2SO4 plastic
WPDU	16oz unpresserved plstic

Misc.	
I	Wipe/Swab
SP5T	120mL Coliform Na Thiosulfate
ZPLC	Ziploc Bag
AF	Air Filter
C	Air Cassettes
R	Terracore Kit
U	Summa Can

Matrix	
WT	Water
SL	Solid
NAL	Non-aqueous Liquid
OL	OIL
WP	Wipe
DW	Drinking Water

Work Order Number: 60484431

WO# : 60484431

60484431

DC#_Title: ENV-FRM-LENE-0009_Sample Con		
Revision: 3	Effective Date: 09/22/2025	Issued By: Lenexa

Client Name: Rocksmith Geoeng

Courier: FedEx ☐ UPS ☐ VIA ☐ Clay ☐ PEX ☐ ECI ☐ Pace ☐ Xroads ☑ Client ☐ Other ☐

Tracking #: _____ Pace Shipping Label Used? Yes ☐ No ☑

Custody Seal on Cooler/Box Present: Yes ☑ No ☐ Seals intact: Yes ☑ No ☐ Cooling process has begun ☐

Packing Material: Bubble Wrap ☐ Bubble Bags ☑ Foam ☐ None ☐ Other ☐

Thermometer Used: T-361 **Type of Ice:** (Wet) Blue None

Cooler Temperature (°C): As-read 1.2/12.3 Corr. Factor 0.0 Corrected 1.2/12.3

Date and initials of person examining contents: R 10/23/25

Temperature should be above freezing to 6°C

Chain of Custody present:	☑Yes ☐No ☐N/A	
Chain of Custody relinquished:	☑Yes ☐No ☐N/A	
Samples arrived within holding time:	☑Yes ☐No ☐N/A	
Short Hold Time analyses (<72hr):	☐Yes ☑No ☐N/A	
Rush Turn Around Time requested:	☐Yes ☑No ☐N/A	
Sufficient volume:	☑Yes ☐No ☐N/A	
Correct containers used:	☑Yes ☐No ☐N/A	
Pace containers used:	☑Yes ☐No ☐N/A	
Containers intact:	☑Yes ☐No ☐N/A	
Unpreserved 5035A / TX1005/1006 soils frozen in 48hrs?	☐Yes ☐No ☑N/A	
Filtered volume received for dissolved tests?	☐Yes ☐No ☑N/A	
Sample labels match COC: Date / time / ID / analyses	☑Yes ☐No ☐N/A	
Samples contain multiple phases? Matrix: WT	☐Yes ☑No ☐N/A	
Containers requiring pH preservation in compliance? (HNO_3, H_2SO_4, HCl<2; NaOH>9 Sulfide, NaOH>10 Cyanide) (Exceptions: VOA, Micro, O&G, KS TPH, Radium) LOT#: 96888	☑Yes ☐No ☐N/A	List sample IDs, volumes, lot #'s of preservative and the date/time added.
Cyanide water sample checks: Lead acetate strip turns dark? (Record only)	☐Yes ☐No	
Potassium iodide test strip turns blue/purple? (Preserve)	☐Yes ☐No	
Trip Blank present:	☐Yes ☐No ☑N/A	
Headspace in VOA vials (>6mm):	☐Yes ☐No ☑N/A	
Samples from USDA Regulated Area: State:	☐Yes ☐No ☑N/A	
Additional labels attached to 5035A / TX1005 vials in the field?	☐Yes ☐No ☑N/A	

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: _____

Pace® Location Requested (City/State):
Pace Analytical Kansas
9608 Loiret Blvd., Lenexa, KS 66219

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

60484431

Scan QR Code for instructions

Company Name:	Rocksmith Geoengineering, LLC.	Contact/Report To:	Mark Haddock
Street Address:	2320 Creve Coeur Mill Road Maryland Heights, MO 63043	Phone #:	314-974-6578
		E-Mail:	mark.haddock@rocksmithgeo.com
		Cc E-Mail:	
Customer Project #:			
Project Name:	AMEREN LCPA-CA	Invoice To:	Mark Haddock
		Invoice E-Mail:	mark.haddock@rocksmithgeo.com
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [ ] ET

County / State origin of sample(s): Missouri

Data Deliverables:
[ ] Level II [ ] Level III [ ] Level IV
[ ] EQUIS
[ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [ ] Yes [ ] No

Rush (Pre-approval required):
[ ] Same Day [ ] 1 Day [ ] 2 Day [ ] 3 Day [ ] Other _____

DW PWSID # or WW Permit # as applicable:

Date Results Requested:

Field Filtered (if applicable): [ ] Yes [ ] No
Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Composite Start Date	Composite Start Time	Collected or Composite End Date	Collected or Composite End Time	# Cont.	Res. Chlorine Results	Res. Chlorine Units	App III and Cat/An Metals*	App IV Metals**	UWL Metals***	COD & TOC	Cl/F/SO4/TDS/Alkalinity	Radium 226/228	Total Organic Halogens				Sample Comment
Specify Container Size **										3	3	2	3	1	1	3				
Identify Container Preservative Type***										2	2	2	3	1	2	3				
L-AMW-8	WT																			
L-BMW-1S	WT																			
L-BMW-2S	WT																			
L-LMW-1S	WT																			
L-LMW-2S	WT																			
L-LMW-4S	WT	G			10-22-25	0748	6			✓	✓	✓	✓	✓	✓	✓				
L-LMW-7S	WT																			
L-LMW-8S	WT																			
L-MW-24	WT																			
L-MW-26	WT																			

Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) 90mL, (10) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only
Proj. Mgr: Jamie Church
AcctNum / Client ID:
Table #:
Profile / Template: 15857
Prelog / Bottle Ord. ID: EZ 3303640

Preservation non-conformance identified for sample.

Additional Instructions from Pace®:
App III and Cat/An Metals - EPA 200.7: B, Ca, Fe, Mg, Mn, K, Na
**App IV Metals - EPA 200.7 -Ba,Be,Co,Pb,Li,Mo and 200.8 Metals - Sb, As,Cd,Cr,Se,Tl +7470 Hg
***UWL Metals - 200.7: Al, Cu, Ni, Ag, Zn+ Hardness

Collected By: (Printed Name) David Quick
Signature:

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)	On Ice:
2	T-301	0.0	1.2 / 12.3	1.2 / 12.3	

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Rocksmith David Quick			10/23/25 0800
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

Tracking Number:

Delivered by: [ ] In- Person [ ] Courier
[ ] FedEX [ ] UPS [ ] Other

Page: of

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

Client: Rocksmith Geoeng

Profile/EZ # only print what you log.

Site:

Notes Append to 60484431

COC Line Item	Matrix	VG9H	DG9H	DG9Q	VG9U	DG9U	DG9M	DG9B	BG1U	AG1H	AG1U	AG2U	AG3S	AG4U	AG5U	JGFU	WGKU	WGDU	BP1U	BP2U	BP3U	BP1N	BP3N	BP3F	BP3S	BP3B	BP3Z	WPDU	ZPLC	Other		
1																																
2																																
3																																
4																																
5																																
6	WT												2						1			2	1									
7																																
8																																
9																																
10																																
11																																
12																																

Container Codes

Glass			
DG9B	40mL bisulfate clear vial	WGKU	8oz clear soil jar
DG9H	40mL HCl amber voa vial	WGFU	4oz clear soil jar
DG9M	40mL MeOH clear vial	WG2U	2oz clear soil jar
DG9Q	40mL TSP amber vial	JGFU	4oz unpreserved amber wide
DG9S	40mL H2SO4 amber vial	AG0U	100mL unores amber glass
DG9T	40mL Na Thio amber vial	AG1H	1L HCl amber glass
DG9U	40mL amber unpreserved	AG1S	1L H2SO4 amber glass
VG9H	40mL HCl clear vial	AG1T	1L Na Thiosulfate clear/amber glass
VG9T	40mL Na Thio. clear vial	AG1U	1liter unpres amber glass
VG9U	40mL unpreserved clear vial	AG2N	500mL HNO3 amber glass
BG1S	1liter H2SO4 clear glass	AG2S	500mL H2SO4 amber glass
BG1U	1liter unpres glass	AG3S	250mL H2SO4 amber glass
BG3H	250mL HCL Clear glass	AG2U	500mL unpres amber glass
BG3U	250mL Unpres Clear glass	AG3U	250mL unpres amber glass
WGDU	16oz clear soil jar	AG4U	125mL unpres amber glass
		AG5U	100mL unpres amber glass

Plastic	
BP1B	1L NAOH plastic
BP1N	1L HNO3 plastic
BP1S	1L H2SO4 plastic
BP1U	1L unpreserved plastic
BP1Z	1L NaOH, Zn Acetate
BP2B	500mL NAOH plastic
BP2N	500mL HNO3 plastic
BP2S	500mL H2SO4 plastic
BP2U	500mL unpreserved plastic
BP2Z	500mL NaOH, Zn Acetate
BP3B	250mL NaOH plastic
BP3F	250mL HNO3 plastic - field filtered
BP3N	250mL HNO3 plastic
BP3U	250mL unpreserved plastic
BP3S	250mL H2SO4 plastic
BP3Z	250mL NaOH, Zn Acetate
BP4U	125mL unpreserved plastic
BP4N	125mL HNO3 plastic
BP4S	125mL H2SO4 plastic
WPDU	16oz unpresserved plstic

Misc.	
I	Wipe/Swab
SP5T	120mL Coliform Na Thiosulfate
ZPLC	Ziploc Bag
AF	Air Filter
C	Air Cassettes
R	Terracore Kit
U	Summa Can

Matrix	
WT	Water
SL	Solid
NAL	Non-aqueous Liquid
OL	OIL
WP	Wipe
DW	Drinking Water

Work Order Number: 60484431

Revised Received via Email 10-24-25 MB

Internal Transfer Chain of Custody

Pace

☐ Rush Multiplier____X
☐ Samples Pre-Logged into eCOC

State Of Origin: MO
Cert. Needed: ☐ Yes ☐ No
Owner Received Date: 10/18/2025 Results Requested By: 11/3/2025

Workorder: 60484431 Workorder Name: AMEREN LCPA-CA

Report To

Jamie Church
Pace Analytical Kansas
9608 Loiret Blvd.
Lenexa, KS 66219
Phone 314-838-7223

Subcontract To

Pace Analytical Pittsburgh
1638 Roseytown Road
Suites 2,3, & 4
Greensburg, PA 15601
Phone (724)850-5600

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers HNO3						Requested Analysis Radium 226	Radium 228											LAB USE ONLY
1	L-LMW-1S	PS	10/17/2025 11:45	60484431001	Water	2						X	X											001
2	L-LMW-7S	PS	10/17/2025 12:20	60484431002	Water	2						X	X											002
3	L-LMW-8S	PS	10/17/2025 12:41	60484431003	Water	2						X	X											003
4	L-MW-33(D)	PS	10/17/2025 11:35	60484431004	Water	2						X	X											004
5	L-MW-34(D)	PS	10/17/2025 10:30	60484431005	Water	2						X	X											005
6	L-TP-3M	RQS	10/17/2025 12:24	60484431006	Water	2						X	X											006
7	L-TP-3D	PS	10/17/2025 13:25	60484431007	Water	2						X	X											007
8	L-TP-4D	PS	10/17/2025 09:26	60484431008	Water	2						X	X											008
9	L-CA-FB-1	PS	10/17/2025 10:47	60484431009	Water	2						X	X											009
10	L-MS-1	PS	10/17/2025 12:24	60484431010	Water	2						X	X											010 ~~00~~ MB 10/25/25
11	L-MSD-1	PS	10/17/2025 12:24	60484431011	Water	2						X	X											011
12	L-AMW-8	PS	10/21/2025 14:30	60484431012	Water	2						X	X											012
13	L-BMW-1S	PS	10/21/2025 11:06	60484431013	Water	2						X	X											013
14	L-BMW-2S	PS	10/21/2025 09:05	60484431014	Water	2						X	X											014
15	L-LMW-2S	PS	10/20/2025 15:10	60484431015	Water	2						X	X											015
16	L-MW-24	PS	10/21/2025 12:49	60484431016	Water	2						X	X											016
17	L-MW-26	PS	10/21/2025 12:02	60484431017	Water	2						X	X											017
18	L-MW-35(D)	PS	10/21/2025 13:27	60484431018	Water	2						X	X											018
19	L-S-1	PS	10/21/2025 14:16	60484431019	Water	2						X	X											019

WO# : 30821452

30821452

Internal Transfer Chain of Custody

☐ Rush Multiplier_____X
☐ Samples Pre-Logged into eCOC

State Of Origin: MO
Cert. Needed: ☐ Yes ☐ No

Workorder: 60484431 Workorder Name: AMEREN LCPA-CA

Owner Received Date: 10/18/2025 Results Requested By: 11/3/2025

Report To	Subcontract To
Jamie Church Pace Analytical Kansas 9608 Loiret Blvd. Lenexa, KS 66219 Phone 314-838-7223	Pace Analytical Pittsburgh 1638 Roseytown Road Suites 2,3, & 4 Greensburg, PA 15601 Phone (724)850-5600

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers HNO3						Requested Analysis Radium 226	Radium 228											LAB USE ONLY
20	L-TP-1D	PS	10/20/2025 13:50	60484431020	Water	2						X	X											020
21	L-TP-2M	RQS	10/20/2025 11:27	60484431021	Water	2						X	X											021
22	L-TP-2D	PS	10/20/2025 09:57	60484431022	Water	2						X	X											022
23	L-AM-1S	PS	10/20/2025 13:09	60484431023	Water	2						X	X											023
24	L-AM-1D	PS	10/20/2025 11:13	60484431024	Water	2						X	X											024
25	L-CA-DUP-1	PS	10/20/2025 00:00	60484431025	Water	2						X	X											025
26	L-CA-DUP-2	PS	10/20/2025 00:00	60484431026	Water	2						X	X											026
27	L-CA-DUP-3	PS	10/20/2025 00:00	60484431027	Water	2						X	X											027
28	L-CA-FB-2	PS	10/20/2025 13:00	60484431028	Water	2						X	X											028
29	L-CA-FB-3	PS	10/21/2025 14:10	60484431029	Water	2						X	X											029
30	L-MS-2	PS	10/20/2025 11:27	60484431030	Water	2						X	X											030
31	L-MSD-2	PS	10/20/2025 11:27	60484431031	Water	2						X	X											031
32	L-LMW-4S	PS	10/22/2025 09:48	60484431032	Water	2						X	X											032

WO# : 30821452

PM: CMC Due Date: 11/14/25
CLIENT: PACE_GO_LEKS

Transfers	Released By	Date/Time	Received By	Date/Time
1			Matthew Smith	10/24/25 950
2				
3				

Comments

Note: Parent sample for MS/MSD (010/011) is 006. Parent sample for MS/MSD (030/031) is 021.

Location: 60-R01-S3B

Cooler Temperature on Receipt ___ °C	Custody Seal Y or (N)	Received on Ice Y or (N)	Samples Intact (Y) or N

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

WO# : 30821452

PM: CMC Due Date: 11/14/25

CLIENT: PACE_60_LEKS

DC#_Title: ENV-FRM-GBUR-0088 v09_Sample Condi[illegible] Receipt

Greensburg

WO#: 30821452

Effective Date: 06/24/2025

PM: CMC Due Date: 11/14/25

CLIENT: PACE_60_LEKS

Client Name: Pace KS **Project #:**

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other

Tracking Number: 4453 8938 9631

Initial / Date

Examined By: MS 10/25/25

Labeled By: ~~PS 10/27/25~~ MS 10/27/25 MS 10/28/25

Temped By: —

Custody Seal on Cooler/Box Present: ☐ Yes ☑ No **Seals Intact:** ☐ Yes ☑ No

Therm. Used: — **Type of Ice:** Wet Blue ~~None~~

Cooler Temp: Observed Temp — °C Correction Factor: — °C Final Temp: — °C

Temp should be above freezing to 6°C

Comments:	Yes	No	NA	pH paper Lot# 10043241 / D.P.D. Residual Chlorine Lot # —
Chain of Custody Present	✓			1.
Chain of Custody Filled Out:	✓			2.
-Were client corrections present on COC		✓		
Chain of Custody Relinquished		✓		3.
Sampler Name & Signature on COC:		✓		4.
Sample Labels match COC:		✓		5. ~~Time on~~ Date on bottles sample 016 = 10/20/25 MS 10/27/25 017 = 10/20/25 018 = 10/20/25 019 = 10/20/25
-Includes date/time/ID Matrix:	WT			
Samples Arrived within Hold Time:	✓			6.
Short Hold Time Analysis (<72hr remaining):		✓		7.
Rush Turn Around Time Requested:		✓		8.
Sufficient Volume:	✓			9.
Correct Containers Used:	✓			10.
-Pace Containers Used	✓			
Containers Intact:	✓			11.
Orthophosphate field filtered:			✓	12.
Hex Cr Aqueous samples field filtered:			✓	13.
Organic Samples checked for dechlorination			✓	14:
Filtered volume received for dissolved tests: **Cr6+, Orthophosphate, DOC, Metals**			✓	15:
All containers checked for preservation: exceptions: VOA, coliform, TOC, O&G, TOX, LL Hg, Radon, non-aqueous matrix	✓			16. pH < 2
All containers meet method preservation requirements:	✓			Initial when completed MS / Date/Time of Preservation / Lot# of added Preservative
8260C/D: Headspace in VOA Vials (> 6mm)			✓	17.
624.1: Headspace in VOA Vials (0mm)			✓	18.
Radon: Headspace in RAD Vials (0mm)			✓	19.
Trip Blank Present:			✓	Trip blank custody seal present? YES or NO
Rad Samples Screened <.05 mrem/hr.	✓			Initial when completed MS / Date: 10/25/25 / Survey Meter SN: 2504[illegible]380

Comments:

Note: For NC compliance samples with discrepancies, a copy of this form must be sent to the DEHNR Certification office.
PM Review is documented electronically in LIMS through the SRF Review schedule in the Workorder Edit Screen.

Memorandum

December 17, 2025

To:	Project File Rocksmith Geoengineering, LLC	**Project Number:**	23007-25
CC:	Mark Haddock, Jeffrey Ingram		
From:	Jack Rasmussen	**Email:**	Jack.Rasmussen@Rocksmithgeo.com
RE:	**Data Validation Summary, Labadie Energy Center – LCPA-CA – Data Package 60484431**		

The following is a summary of instances where quality control criteria in the functional guidelines were not met and data qualification was required:

- When a compound was analyzed outside of hold time, the sample result was qualified as an estimate (J for detects, UJ for non-detects).
- When a duplicate criterion was not met, the associated sample result was qualified as an estimate (J for detects, UJ for non-detects).
- When a compound was detected in a blank (i.e. method, field), and the blank comparison criterion was not met, associated sample results were qualified as estimates (J) or non-detects (U).

QA LEVEL II - INORGANIC DATA EVALUATION CHECKLIST

Company Name: Rocksmith Geoengineering
Project Manager: J. Ingram
Project Name: Ameren LCPA-CA
Project Number: 23007-25
Reviewer: J. Rasmussen
Validation Date: 12/17/2025

Laboratory: Pace Analytical
SDG #: 60484431
Analytical Method (type and no.): EPA 200.7/200.8/7470 (Total Metals); SM 2320B (Alkalinity); SM 2540C (TDS); EPA 300.0 (Anions);
Matrix: ☐ Air ☐ Soil/Sed. ■ Water ☐ Waste ☐ EPA 903.1/904.0 (Radium 226+228)
Sample Names L-LMW-2S, L-TP-2M, L-TP-2D, L-AMW-8, L-CA-FB-1, L-LMW-4S, L-MW-33(D), L-S-1, L-LMW-8S, L-LMW-7S, L-TP-3M, L-TP-3D, L-CA-DUP-1, L-CA-DUP-2, L-CA-DUP-3, L-MS-1, L-MSD-1, L-BMW-1S, L-BMW-2S, L-LMW-1S, L-MW-24, L-MW-26, L-MW-34(D), L-MW-35(D), L-TP-1D, L-TP-4D, L-AM-1S, L-AM-1D, L-CA-FB-2, L-CA-FB-3, L-MS-2, L-MSD-2

NOTE: Please provide calculation in Comment areas or on the back (if on the back please indicate in comment areas).

Field Information	YES	NO	NA	COMMENTS
a) Sampling dates noted?	x			10/17/2025-10/22/2025
b) Sampling team indicated?	x			JTR/JDQ/VAH
c) Sample location noted?	x			
d) Sample depth indicated (Soils)?			x	
e) Sample type indicated (grab/composite)?	x			Grab
f) Field QC noted?	x			See Notes
g) Field parameters collected (note types)?	x			pH, Spec Cond, Turb, Temp, DO, ORP
h) Field Calibration within control limits?	x			
i) Notations of unacceptable field conditions/performances from field logs or field notes?		x		
j) Does the laboratory narrative indicate deficiencies?			x	No lab narrative.

Note Deficiencies:

Chain-of-Custody (COC)	YES	NO	NA	COMMENTS
a) Was the COC properly completed?	x			
b) Was the COC signed by both field and laboratory personnel?	x			
c) Were samples received in good condition?	x			

General (reference QAPP or Method)	YES	NO	NA	COMMENTS
a) Were hold times met for sample pretreatment?	x			
b) Were hold times met for sample analysis?	x			
c) Were the correct preservatives used?	x			
d) Was the correct method used?	x			
e) Were appropriate reporting limits achieved?	x			
f) Were any sample dilutions noted?	x			See Notes
g) Were any matrix problems noted?		x		

QA LEVEL II - INORGANIC DATA EVALUATION CHECKLIST

Blanks	**YES**	**NO**	**NA**	**COMMENTS**
a) Were analytes detected in the method blank(s)?	x			See Notes
b) Were analytes detected in the field blank(s)?	x			See Notes
c) Were analytes detected in the equipment blank(s)?			x	
d) Were analytes detected in the trip blank(s)?			x	

Laboratory Control Sample (LCS)	**YES**	**NO**	**NA**	**COMMENTS**
a) Was a LCS analyzed once per SDG?	x			
b) Were the proper analytes included in the LCS?	x			
c) Was the LCS accuracy criteria met?	x			

Duplicates	**YES**	**NO**	**NA**	**COMMENTS**
a) Were field duplicates collected (note original and duplicate sample names)?	x			See Notes
b) Were field dup. precision criteria met (note RPD)?		x		See Notes
c) Were lab duplicates analyzed (note original and duplicate samples)?	x			
d) Were lab dup. precision criteria met (note RPD)?		x		See Notes

Blind Standards	**YES**	**NO**	**NA**	**COMMENTS**
a) Was a blind standard used (indicate name, analytes included and concentrations)?			x	
b) Was the %D within control limits?			x	

Matrix Spike/Matrix Spike Duplicate (MS/MSD)	**YES**	**NO**	**NA**	**COMMENTS**
a) Was MS accuracy criteria met?		x		See Notes
Recovery could not be calculated since sample contained high concentration of analyte?			x	
b) Was MSD accuracy criteria met?		x		See Notes
Recovery could not be calculated since sample contained high concentration of analyte?			x	
c) Were MS/MSD precision criteria met?		x		See Notes

Comments/Notes:

General:

Alkalinity, sulfate and chloride diluted in some samples, no qualification necessary.

QA LEVEL IV - INORGANIC DATA EVALUATION CHECKLIST

Comments/Notes:

Method Blanks:

3776415: Barium (0.90 J), associated with sample -1032. Result > RL and 10x blank, no qualification necessary.

Field Blanks:

L-CA-FB-1 @ L-MW-34(D): Total dissolved solids (TDS) (300).

TDS result > RL and < 10x blank, result qualified as an estimate.

L-CA-FB-2 @ L-AM-1S: No analytes detected.

L-CA-FB-3 @ L-S-1: No analytes detected.

Duplicates:

L-CA-DUP-1 @ L-TP-2D: Radium-226 detected in parent sample and non-detect in duplicate, results qualified as estimates.

L-CA-DUP-2 @ L-AM-1D: Radium-228 detected in duplicate and non-detect in parent sample, results qualified as estimates.

RPD exceeds control limit of 20% for sulfate (22%), results qualified as estimates.

L-CA-DUP-3 @ L-TP-1D: RPDs within precision criteria.

MS/MSD:

3774090: MS recovery low for calcium, associated with sample -005. Result qualified as estimate.

3775518/3775519: MS and MSD recovery low for calcium, RPD within limits. Associated with sample -022, result qualified as an estimate.

3776417/3776418: MS and MSD recovery high for both potassium and sodium, RPD within limits. Associated with unrelated sample.

3776419: MS recovery low for calcium and sodium, associated with unrelated sample.

QA LEVEL IV - INORGANIC DATA EVALUATION CHECKLIST

Data Qualification:

Sample Name	Constituent(s)	Result	Qualifier	Reason
L-MW-34(D)	TDS	675	J	Detected in field blank, result > RL and < 10x blank
L-TP-3M	Alkalinity	276	J	Lab duplicate RPD exceeds limit
L-CA-DUP-2	Radium-228	1.03	J	Detected in field duplicate and non-detect in parent sample
L-AM-1D	"	0.892	UJ	"
L-MW-34(D)	Calcium	115000	J-	MS recovery low
L-TP-2D	"	105000	J-	MS and MSD recovery low, RPD okay
L-CA-DUP-2	Sulfate	312	J	Field duplicate RPD exceeds 20%
L-AM-1D	"	827	J	"
L-CA-DUP-1	Radium-226	1.09	UJ	Detected in parent sample and non-detect in field duplicate
L-TP-2D	"	1.08	J	"

Signature: _____ Date: 12/17/2025

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

December 23, 2025

Mark Haddock
Rocksmith Geoengineering, LLC.
2320 Creve Coeur Mill Road
Maryland Heights, MO 63043

RE: Project: AMEREN LCPA-VERIFICATION
Pace Project No.: 60487252

Dear Mark Haddock:

Enclosed are the analytical results for sample(s) received by the laboratory on December 09, 2025. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Kansas City

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Jamie Church
jamie.church@pacelabs.com
314-838-7223
Project Manager

Enclosures

cc: Jeffrey Ingram, Rocksmith Geoengineering, LLC.
Lisa Meyer, Ameren
Grant Morey, Rocksmith Geoengineering, LLC.
Austin Nieman, Ameren

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

CERTIFICATIONS

Project: AMEREN LCPA-VERIFICATION
Pace Project No.: 60487252

Pace Analytical Services Kansas

9608 Loiret Boulevard, Lenexa, KS 66219
EPA Lab Code: KS00021
Arkansas Certification #: 88-00679
Illinois Certification #: 200030
Colorado Division of Oil and Public Safety
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Oklahoma Certification #: 9205
Texas Certification #: T104704407
Utah Certification #: KS0002125-15
UDSA_CA : #KS-SC-DOM-25-01

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

SAMPLE SUMMARY

Project: AMEREN LCPA-VERIFICATION
Pace Project No.: 60487252

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60487252001	**L-UMW-1D**	Water	12/08/25 10:08	12/09/25 07:44
60487252002	**L-UMW-2D**	Water	12/08/25 11:06	12/09/25 07:44
60487252003	**L-UMW-4D**	Water	12/08/25 11:06	12/09/25 07:44
60487252004	**L-UMW-DUP-1**	Water	12/08/25 00:00	12/09/25 07:44
60487252005	**L-UMW-FB-1**	Water	12/08/25 10:17	12/09/25 07:44

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

SAMPLE ANALYTE COUNT

Project: AMEREN LCPA-VERIFICATION
Pace Project No.: 60487252

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60487252001	**L-UMW-1D**	EPA 200.7	ARMN	1	PASI-K
		EPA 300.0	GTS	1	PASI-K
60487252002	**L-UMW-2D**	EPA 200.7	ARMN	1	PASI-K
		EPA 300.0	GTS	1	PASI-K
60487252003	**L-UMW-4D**	EPA 200.7	ARMN	1	PASI-K
		EPA 300.0	GTS	1	PASI-K
60487252004	**L-UMW-DUP-1**	EPA 200.7	ARMN	1	PASI-K
		EPA 300.0	GTS	1	PASI-K
60487252005	**L-UMW-FB-1**	EPA 200.7	ARMN	1	PASI-K
		EPA 300.0	GTS	1	PASI-K

PASI-K = Pace Analytical Services - Kansas City

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA-VERIFICATION
Pace Project No.: 60487252

Sample: L-UMW-1D **Lab ID: 60487252001** Collected: 12/08/25 10:08 Received: 12/09/25 07:44 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City								
Calcium	**159000**	ug/L	200	45.3	1	12/10/25 13:17	12/16/25 11:48	7440-70-2	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City								
Fluoride	**<0.16**	mg/L	0.20	0.16	1		12/20/25 17:49	16984-48-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA-VERIFICATION
Pace Project No.: 60487252

Sample: L-UMW-2D **Lab ID: 60487252002** Collected: 12/08/25 11:06 Received: 12/09/25 07:44 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City								
Calcium	**121000**	ug/L	200	45.3	1	12/10/25 13:17	12/16/25 11:56	7440-70-2	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City								
Fluoride	**<0.16**	mg/L	0.20	0.16	1		12/20/25 18:01	16984-48-8	M1

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA-VERIFICATION
Pace Project No.: 60487252

Sample: L-UMW-4D **Lab ID: 60487252003** Collected: 12/08/25 11:06 Received: 12/09/25 07:44 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City								
Calcium	**61800**	ug/L	200	45.3	1	12/10/25 13:17	12/16/25 12:01	7440-70-2	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City								
Fluoride	**0.30**	mg/L	0.20	0.16	1		12/20/25 19:02	16984-48-8	M1

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA-VERIFICATION
Pace Project No.: 60487252

Sample: L-UMW-DUP-1 **Lab ID: 60487252004** Collected: 12/08/25 00:00 Received: 12/09/25 07:44 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City								
Calcium	**60400**	ug/L	200	45.3	1	12/10/25 13:17	12/16/25 12:07	7440-70-2	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City								
Fluoride	**0.43**	mg/L	0.20	0.16	1		12/20/25 19:38	16984-48-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: AMEREN LCPA-VERIFICATION
Pace Project No.: 60487252

Sample: L-UMW-FB-1 **Lab ID: 60487252005** Collected: 12/08/25 10:17 Received: 12/09/25 07:44 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City								
Calcium	**141J**	ug/L	200	45.3	1	12/10/25 13:17	12/16/25 12:08	7440-70-2	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City								
Fluoride	**<0.16**	mg/L	0.20	0.16	1		12/20/25 19:50	16984-48-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: AMEREN LCPA-VERIFICATION
Pace Project No.: 60487252

QC Batch: 958106
QC Batch Method: EPA 200.7
Analysis Method: EPA 200.7
Analysis Description: 200.7 Metals, Total
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60487252001, 60487252002, 60487252003, 60487252004, 60487252005

METHOD BLANK: 3797151 Matrix: Water
Associated Lab Samples: 60487252001, 60487252002, 60487252003, 60487252004, 60487252005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	ug/L	<45.3	200	45.3	12/16/25 11:34	

LABORATORY CONTROL SAMPLE: 3797152

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	ug/L	10000	10400	104	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3797153 3797154

Parameter	Units	60487238001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	ug/L	82400	10000	10000	90800	91400	84	90	70-130	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3797160 3797161

Parameter	Units	60487252002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	ug/L	121000	10000	10000	133000	133000	115	116	70-130	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3797162 3797163

Parameter	Units	60487252003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	ug/L	61800	10000	10000	72300	71500	106	97	70-130	1	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: AMEREN LCPA-VERIFICATION
Pace Project No.: 60487252

QC Batch: 959320
QC Batch Method: EPA 300.0
Analysis Method: EPA 300.0
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60487252001, 60487252002, 60487252003, 60487252004, 60487252005

METHOD BLANK: 3801996 Matrix: Water
Associated Lab Samples: 60487252001, 60487252002, 60487252003, 60487252004, 60487252005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Fluoride	mg/L	<0.16	0.20	0.16	12/20/25 14:11	

LABORATORY CONTROL SAMPLE: 3801997

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Fluoride	mg/L	2.5	2.5	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3801998 3801999

Parameter	Units	60487238001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Fluoride	mg/L	<0.16	2.5	2.5	3.5	3.4	133	130	80-120	2	15	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3802000 3802001

Parameter	Units	60487252002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Fluoride	mg/L	<0.16	2.5	2.5	3.4	3.4	132	130	80-120	1	15	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3802002 3802003

Parameter	Units	60487252003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Fluoride	mg/L	0.30	2.5	2.5	3.5	3.5	127	127	80-120	0	15	M1

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALIFIERS

Project: AMEREN LCPA-VERIFICATION
Pace Project No.: 60487252

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: AMEREN LCPA-VERIFICATION
Pace Project No.: 60487252

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60487252001	**L-UMW-1D**	EPA 200.7	958106	EPA 200.7	958142
60487252002	**L-UMW-2D**	EPA 200.7	958106	EPA 200.7	958142
60487252003	**L-UMW-4D**	EPA 200.7	958106	EPA 200.7	958142
60487252004	**L-UMW-DUP-1**	EPA 200.7	958106	EPA 200.7	958142
60487252005	**L-UMW-FB-1**	EPA 200.7	958106	EPA 200.7	958142
60487252001	**L-UMW-1D**	EPA 300.0	959320		
60487252002	**L-UMW-2D**	EPA 300.0	959320		
60487252003	**L-UMW-4D**	EPA 300.0	959320		
60487252004	**L-UMW-DUP-1**	EPA 300.0	959320		
60487252005	**L-UMW-FB-1**	EPA 300.0	959320		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-LENE-0009_Sample	
	Revision: 3	Effective Date: 09/22/2025

WO# : 60487252

60487252

Client Name: Rocksmith Geoengineering, LLC

Courier: FedEx ☐ UPS ☐ VIA ☐ Clay ☐ PEX ☐ ECI ☐ Pace ☐ Xroads ☑ Client ☐ Other ☐

Tracking #: _____ Pace Shipping Label Used? Yes ☑ No ☐

Custody Seal on Cooler/Box Present: Yes ☑ No ☐ Seals intact: Yes ☑ No ☐ Cooling process has begun ☐

Packing Material: Bubble Wrap ☐ Bubble Bags ☐ Foam ☐ None ☐ Other ☑ ZPLC

Thermometer Used: T301 **Type of Ice:** (Wet) Blue None

Cooler Temperature (°C): As-read 1.1 Corr. Factor 0.0 Corrected 1.1 0.9

Date and initials of person examining contents: SA 12/9/25

Temperature should be above freezing to 6°C 0.9

Chain of Custody present:	☑Yes ☐No ☐N/A	
Chain of Custody relinquished:	☑Yes ☐No ☐N/A	
Samples arrived within holding time:	☑Yes ☐No ☐N/A	
Short Hold Time analyses (<72hr):	☐Yes ☑No ☐N/A	
Rush Turn Around Time requested:	☐Yes ☑No ☐N/A	
Sufficient volume:	☑Yes ☐No ☐N/A	
Correct containers used:	☑Yes ☐No ☐N/A	
Pace containers used:	☑Yes ☐No ☐N/A	
Containers intact:	☑Yes ☐No ☐N/A	
Unpreserved 5035A / TX1005/1006 soils frozen in 48hrs?	☐Yes ☐No ☑N/A	
Filtered volume received for dissolved tests?	☐Yes ☐No ☑N/A	
Sample labels match COC: Date / time / ID / analyses	☑Yes ☐No ☐N/A	
Samples contain multiple phases? Matrix: WT	☐Yes ☑No ☐N/A	
Containers requiring pH preservation in compliance? (HNO3, H2SO4, HCl<2; NaOH>9 Sulfide, NaOH>10 Cyanide) (Exceptions: VOA, Micro, O&G, KS TPH, Radium) LOT#: 88727	☑Yes ☐No ☐N/A	List sample IDs, volumes, lot #'s of preservative and the date/time added.
Cyanide water sample checks: Lead acetate strip turns dark? (Record only)	☐Yes ☐No	
Potassium iodide test strip turns blue/purple? (Preserve)	☐Yes ☐No	
Trip Blank present:	☐Yes ☐No ☑N/A	
Headspace in VOA vials (>6mm):	☐Yes ☐No ☑N/A	
Samples from USDA Regulated Area: State:	☐Yes ☐No ☑N/A	
Additional labels attached to 5035A / TX1005 vials in the field?	☐Yes ☐No ☑N/A	

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: _____

Pace Analytical
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

Section A — **Required** Client Information:

Company:	Rocksmith Geoengineering, LLC
Address:	5233 Roanoke Drive
	St. Charles, MO 63304
Email To:	mark.haddock@rocksmithgeo.com
Pho 314-974-5678	Fax
Requested Due Date/TAT:	Standard

Section B — **Required** Project Information:

Report To:	Mark Haddock
Copy To:	Jeffery Ingram, Grant Morey
Purchase Order No.:	COC #1
Project Name:	Ameren LCPA - Verification Sampling
Project Number:	

Section C — Invoice Information:

Attention:	
Company Name:	Rocksmith
Address:	
Pace Quote Reference:	Jamie Church
Pace Project Manager:	
Pace Profile #:	15856, line 1

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER

UST RCRA O _____

Site Location STATE: MO

Section D — **Required** Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW WT
WATER	WW P
WASTE WATER	SL OL
PRODUCT	WP AR
SOIL/SOLID	OT TS
OIL	

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRA DATE	COLLECTED COMPOSITE END/GRA TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Y/N	Analysis Test: Calcium	Fluoride	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
																		N	N	N		60487252
1	L-UMW-1D	WT	G			12/8/25		1008	2	X		X						X	X			
2	L-UMW-2D	WT	G					1106	2	X		X						X	X			
3	L-UMW-4D	WT	G					1106	2	X		X						X	X			
4	L-UMW-MS-1	WT	G					1106	2	X		X						X	X			Collected @ L-UMW-4D
5	L-UMW-MSD-1	WT	G					1106	2	X		X						X	X			
6	L-UMW-DUP-1	WT	G						2	X		X						X	X			
7	L-UMW-FB-1	WT	G					1017	2	X		X						X	X			
8		WT	G																			
9		WT	G																			
10		WT	G																			
11		WT	G																			
12		WT	G																			

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Daniel Quick/RSG	12-8-25	1390	JAPace	12/9/25	0744	1.1 Y Y Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Daniel Quick

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 12-8-25

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

Client: Rocksmith Geoengineering, LLC

Profile/EZ # 15856, line 1

Site: Amgen LCPA - verification sampling

Notes samples 2, 4, 5 should be logged as 1 sample

COC Line Item	Matrix	VG9H	DG9H	DG9Q	VG9U	DG9U	DG9M	DG9B	BG1U	AG1H	AG1U	AG2U	AG3S	AG4U	AG5U	JGFU	WGKU	WGDU	BP1U	BP2U	BP3U	BP1N	BP3N	BP3F	BP3S	BP3B	BP3Z	WPDU	ZPLC	Other		
1	WT																				1		1									
2	WT																			1	2		3 MS/MSD									
3	WT																				1		1									
4																																
5																																
6	WT																				1		1									
7	WT																				1		1									
8																																
9																																
10																																
11																																
12																																

Container Codes

Glass			
DG9B	40mL bisulfate clear vial	WGKU	8oz clear soil jar
DG9H	40mL HCl amber voa vial	WGFU	4oz clear soil jar
DG9M	40mL MeOH clear vial	WG2U	2oz clear soil jar
DG9Q	40mL TSP amber vial	JGFU	4oz unpreserved amber wide
DG9S	40mL H2SO4 amber vial	AG0U	100mL unores amber glass
DG9T	40mL Na Thio amber vial	AG1H	1L HCl amber glass
DG9U	40mL amber unpreserved	AG1S	1L H2SO4 amber glass
VG9H	40mL HCl clear vial	AG1T	1L Na Thiosulfate clear/amber glass
VG9T	40mL Na Thio. clear vial	AG1U	1liter unpres amber glass
VG9U	40mL unpreserved clear vial	AG2N	500mL HNO3 amber glass
BG1S	1liter H2SO4 clear glass	AG2S	500mL H2SO4 amber glass
BG1U	1liter unpres glass	AG3S	250mL H2SO4 amber glass
BG3H	250mL HCL Clear glass	AG2U	500mL unpres amber glass
BG3U	250mL Unpres Clear glass	AG3U	250mL unpres amber glass
WGDU	16oz clear soil jar	AG4U	125mL unpres amber glass
		AG5U	100mL unpres amber glass

Plastic	
BP1B	1L NAOH plastic
BP1N	1L HNO3 plastic
BP1S	1L H2SO4 plastic
BP1U	1L unpreserved plastic
BP1Z	1L NaOH, Zn Acetate
BP2B	500mL NAOH plastic
BP2N	500mL HNO3 plastic
BP2S	500mL H2SO4 plastic
BP2U	500mL unpreserved plastic
BP2Z	500mL NaOH, Zn Acetate
BP3B	250mL NaOH plastic
BP3F	250mL HNO3 plastic - field filtered
BP3N	250mL HNO3 plastic
BP3U	250mL unpreserved plastic
BP3S	250mL H2SO4 plastic
BP3Z	250mL NaOH, Zn Acetate
BP4U	125mL unpreserved plastic
BP4N	125mL HNO3 plastic
BP4S	125mL H2SO4 plastic
WPDU	16oz unpresserved plstic

Misc.	
I	Wipe/Swab
SP5T	120mL Coliform Na Thiosulfate
ZPLC	Ziploc Bag
AF	Air Filter
C	Air Cassettes
R	Terracore Kit
U	Summa Can

Matrix	
WT	Water
SL	Solid
NAL	Non-aqueous Liquid
OL	OIL
WP	Wipe
DW	Drinking Water

Work Order Number: 60487252

Memorandum

December 29, 2025

To:	Project File Rocksmith Geoengineering, LLC	**Project Number:**	23007-25
CC:	Mark Haddock, Jeffrey Ingram		
From:	Valerie Hurt	**Email:**	Valerie.Hurt@Rocksmithgeo.com
RE:	**Data Validation Summary, Labadie Energy Center – LCPA – Data Package 60487252**		

The following is a summary of instances where quality control criteria in the functional guidelines were not met, and data qualification was required:

- When a matrix spike/matrix spike duplicate (MS/MSD) criterion was not met, the associated sample result was qualified as an estimate (J, J+ for estimates based high, and J- for estimates based low).

QA LEVEL II - INORGANIC DATA EVALUATION CHECKLIST

Company Name: Rocksmith Geoengineering
Project Manager: J. Ingram
Project Name: Ameren LCPA - Verification sampling
Project Number: 23007-25
Reviewer: V. Hurt
Validation Date: 12/29/2025

Laboratory: Pace Analytical
SDG #: 60487252
Analytical Method (type and no.): EPA 300.0 (Anions), EPA 200.7 (Metals)
Matrix: ☐ Air ☐ Soil/Sed. ■ Water ☐ Waste ☐ _____
Sample Names L-UMW-1D, L-UMW-2D, L-UMW-4D, L-UMW-DUP-1, L-UMW-FB-1

NOTE: Please provide calculation in Comment areas or on the back (if on the back please indicate in comment areas).

Field Information	YES	NO	NA	COMMENTS
a) Sampling dates noted?	x			12/08/25
b) Sampling team indicated?	x			JTR/JDQ
c) Sample location noted?	x			
d) Sample depth indicated (Soils)?			x	
e) Sample type indicated (grab/composite)?	x			Grab
f) Field QC noted?	x			See Notes
g) Field parameters collected (note types)?	x			pH, Spec Cond, Turb, Temp, DO, ORP
h) Field Calibration within control limits?	x			
i) Notations of unacceptable field conditions/performances from field logs or field notes?		x		
j) Does the laboratory narrative indicate deficiencies?			x	No lab narrative.

Note Deficiencies: _____

Chain-of-Custody (COC)	YES	NO	NA	COMMENTS
a) Was the COC properly completed?	x			
b) Was the COC signed by both field and laboratory personnel?	x			
c) Were samples received in good condition?	x			

General (reference QAPP or Method)	YES	NO	NA	COMMENTS
a) Were hold times met for sample pretreatment?	x			
b) Were hold times met for sample analysis?	x			
c) Were the correct preservatives used?	x			
d) Was the correct method used?	x			
e) Were appropriate reporting limits achieved?	x			
f) Were any sample dilutions noted?		x		
g) Were any matrix problems noted?		x		

QA LEVEL II - INORGANIC DATA EVALUATION CHECKLIST

Blanks	YES	NO	NA	COMMENTS
a) Were analytes detected in the method blank(s)?	☐	☒	☐	
b) Were analytes detected in the field blank(s)?	☒	☐	☐	See Notes
c) Were analytes detected in the equipment blank(s)?	☐	☐	☒	
d) Were analytes detected in the trip blank(s)?	☐	☐	☒	

Laboratory Control Sample (LCS)	YES	NO	NA	COMMENTS
a) Was a LCS analyzed once per SDG?	☒	☐	☐	
b) Were the proper analytes included in the LCS?	☒	☐	☐	
c) Was the LCS accuracy criteria met?	☒	☐	☐	

Duplicates	YES	NO	NA	COMMENTS
a) Were field duplicates collected (note original and duplicate sample names)?	☒	☐	☐	L-UMW-DUP-1 @ L-UMW-4D
b) Were field dup. precision criteria met (note RPD)?	☒	☐	☐	
c) Were lab duplicates analyzed (note original and duplicate samples)?	☒	☐	☐	
d) Were lab dup. precision criteria met (note RPD)?	☒	☐	☐	

Blind Standards	YES	NO	NA	COMMENTS
a) Was a blind standard used (indicate name, analytes included and concentrations)?	☐	☐	☒	
b) Was the %D within control limits?	☐	☐	☒	

Matrix Spike/Matrix Spike Duplicate (MS/MSD)	YES	NO	NA	COMMENTS
a) Was MS accuracy criteria met?	☐	☒	☐	See Notes
Recovery could not be calculated since sample contained high concentration of analyte?	☐	☐	☒	
b) Was MSD accuracy criteria met?	☐	☒	☐	See Notes
Recovery could not be calculated since sample contained high concentration of analyte?	☐	☐	☒	
c) Were MS/MSD precision criteria met?	☐	☒	☐	See Notes

Comments/Notes:

QA LEVEL IV - INORGANIC DATA EVALUATION CHECKLIST

Comments/Notes:

Field Blanks:

L-UMW-FB-1 @ L-UMW-1D: Calcium (141J), parent result > RL and 10x blank, no qualification necessary.

MS/MSD:

3801998/3801999: MS/MSD % recovery high for fluoride, RPD OK. Associated with an unrelated sample, no qualification necessary.

3802000/3802001: MS/MSD % recovery high for fluoride, RPD OK. Associated with sample -002, result is non-detect, no qualification necessary.

3802002/3802003: MS/MSD % recovery high, RPD OK. Associated with sample -003, result qualified as estimate.

QA LEVEL IV - INORGANIC DATA EVALUATION CHECKLIST

Data Qualification:

Sample Name	Constituent(s)	Result	Qualifier	Reason
L-UMW-4D	Fluoride	0.30	J+	MS/MSD recoveries high

Signature: _____ Date: 12/29/2025

Appendix B

October - November 2024 Assessment Monitoring Statistical Evaluation

Memorandum

March 21, 2025

To:	Bill Kutosky – Ameren Missouri	**Project Number:**	23007-24
CC:	Ameren Missouri - Susan Knowles, Craig Giesmann, Lisa Meyer, Austin Nieman		
From:	Rocksmith Geoengineering - Mark Haddock, P.E., R.G., Jeff Ingram, R.G., Grant Morey, Amanda Derhake, PhD, P.E.	**Email:**	jeff.ingram@rocksmithgeo.com
RE:	**Assessment Monitoring Statistical Evaluation – LCPA Surface Impoundment Labadie Energy Center, Franklin County, Missouri**		

1.0 INTRODUCTION

This Technical Memorandum provides the results of the Assessment Monitoring Statistical Evaluation for the October-November 2024 sampling event at the LCPA Surface Impoundment at the Labadie Energy Center located in Franklin County, Missouri. Included in the memorandum is a summary of constituents that are present at a Statistically Significant Level (SSL), a list of site-specific Groundwater Protection Standards (Table 1), and the Sanitas Technologies™ (Sanitas) statistical software output for each of the Appendix IV parameters (**Appendix A** and **Appendix B**).

2.0 STATISTICAL EVALUATION

The Appendix IV constituents were evaluated for SSLs using the methods and procedures outlined in the Statistical Analysis Plan (SAP). In addition to outliers noted in previous Assessment Monitoring statistical evaluations, the following outliers were removed from the dataset prior to the calculation of confidence limits:

- Lead
    - L-UMW-7D at 6.8 J micrograms per liter (µg/L) on 4/15/2021: result is statistically higher than other lead values at the same monitoring well. This higher result is not consistent with previous or subsequent lead results at the well and is an outlier.
    - L-UMW-9D at 7.4 J µg/L on 4/19/2021: result is statistically higher than other lead values at the same monitoring well. This higher result is not consistent with previous or subsequent lead results at the well and is an outlier.

An analysis of the outliers removed from the dataset to date was completed. No previously identified outliers were added back into the dataset prior to the calculation of confidence limits in **Appendix A** and trending confidence bands in **Appendix B**.

Based on the results from the confidence interval and trend analysis, SSLs identified in the statistical evaluation for the June 2024 sampling event remain. SSLs at the LCPA Surface Impoundment as of the October-November 2024 sampling event are as follows:

- Molybdenum at L-UMW-3D(R), L-UMW-4D, L-UMW-5D, L-UMW-6D, and L-UMW-7D

3.0 CLOSING

Rocksmith appreciates this opportunity to provide hydrogeological and engineering support services to Ameren. If you have any questions or comments regarding the information provided, please contact the undersigned.

Sincerely,

Rocksmith Geoengineering, LLC



Jeff Ingram, R.G.
Senior Geologist, Partner



Amanda Derhake, PhD, P.E.
Principal Engineer, Senior Partner

Attachments

Tables

Table 1 – LCPA Groundwater Protection Standards

Appendices

Appendix A – Sanitas Confidence Interval Statistical Output

Appendix B – Sanitas Trending Confidence Bands Statistical Output

Tables

Table 1 - LCPA Groundwater Protection Standards
LCPA Surface Impoundment
Labadie Energy Center, Franklin County, MO

Parameter	Units	MCL or Health Based GWPS	Site GWPS	Value to Return to Detection Monitoring [6]
Antimony	µg/L	6	6	DQR
Arsenic	µg/L	10	44.2	44.2
Barium	µg/L	2000	2000	1290
Beryllium	µg/L	4	4	DQR
Cadmium	µg/L	5	5	DQR
Chromium	µg/L	100	100	DQR
Cobalt	µg/L	6	6	DQR
Fluoride	mg/L	4	4	0.3074
Lead	µg/L	15	15	DQR
Lithium	µg/L	40	47.4	47.4
Mercury	µg/L	2	2	DQR
Molybdenum	µg/L	100	100	DQR
Radium 226 + 228	pCi/L	5	5	4.14
Selenium	µg/L	50	50	DQR
Thallium	µg/L	2	2	DQR

Notes:
1. µg/L - micrograms per liter.
2. mg/L - milligrams per liter.
3. pCi/L - picocuries per liter.
4. MCL - Maximum Contaminant Level. MCLs from United States Environmental Protection Agency (USEPA) 2012 Edition of the Drinking Water Standards and Health Advisories. Updated January 9, 2023 at http://water.epa.gov/drink/contaminants/index.cfm.
5. Health Based Groundwater Protection Standards (GWPS) were adoped for Appendix IV parameters without an MCL (i.e. cobalt, lithium, molybdenum, and lead). Information available at https://www.epa.gov/coalash/coal-ash-rule.
6. Values were calculated using statistical methods outlined for Detection Monitoring and are used for returning to Detection Monitoring based on available data to date.
7. DQR - Double Quantification Rule. If all baseline data are less than the Practical Quantitation Limit (PQL), then the DQR will be used. More information on the DQR is provided in the Statistical Analysis Plan.
8. Site GWPS is either the MCL/Health Based GWPS or based on background levels (calculated as described in the Statistical Analysis Plan for Assessment Monitoring), whichever is higher.
9. GWPS and background values calculated using results through May 2023 from monitoring wells BMW-1D and BMW-2D.

ROCKSMITH GEOENGINEERING

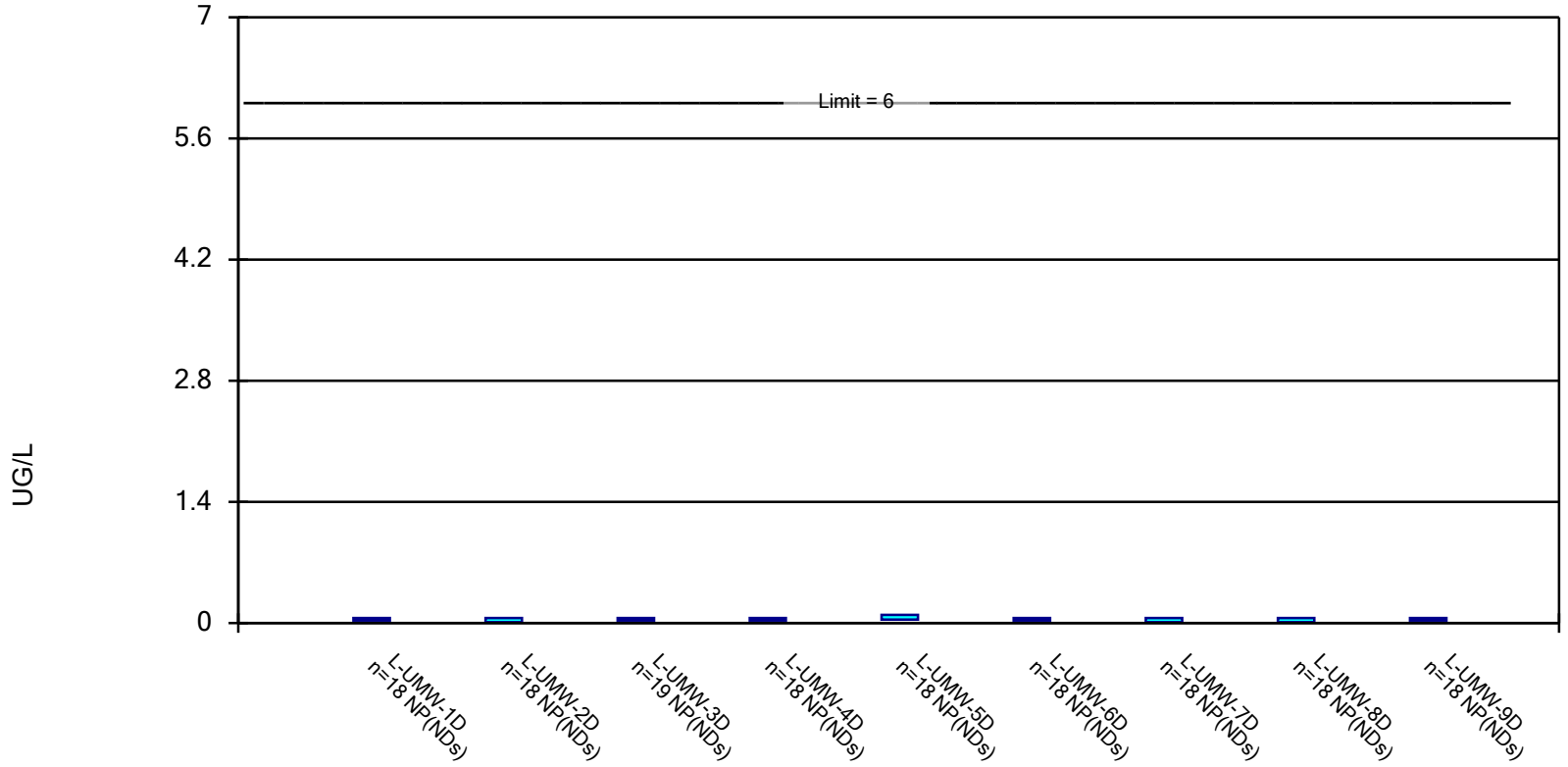
Prepared by: GTM
Checked by: JSI
Reviewed by: MNH

Appendix A
Sanitas Confidence Interval Statistical Output

Sanitas™ v.10.0.24 Software licensed to Rocksmith Geoengineering. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



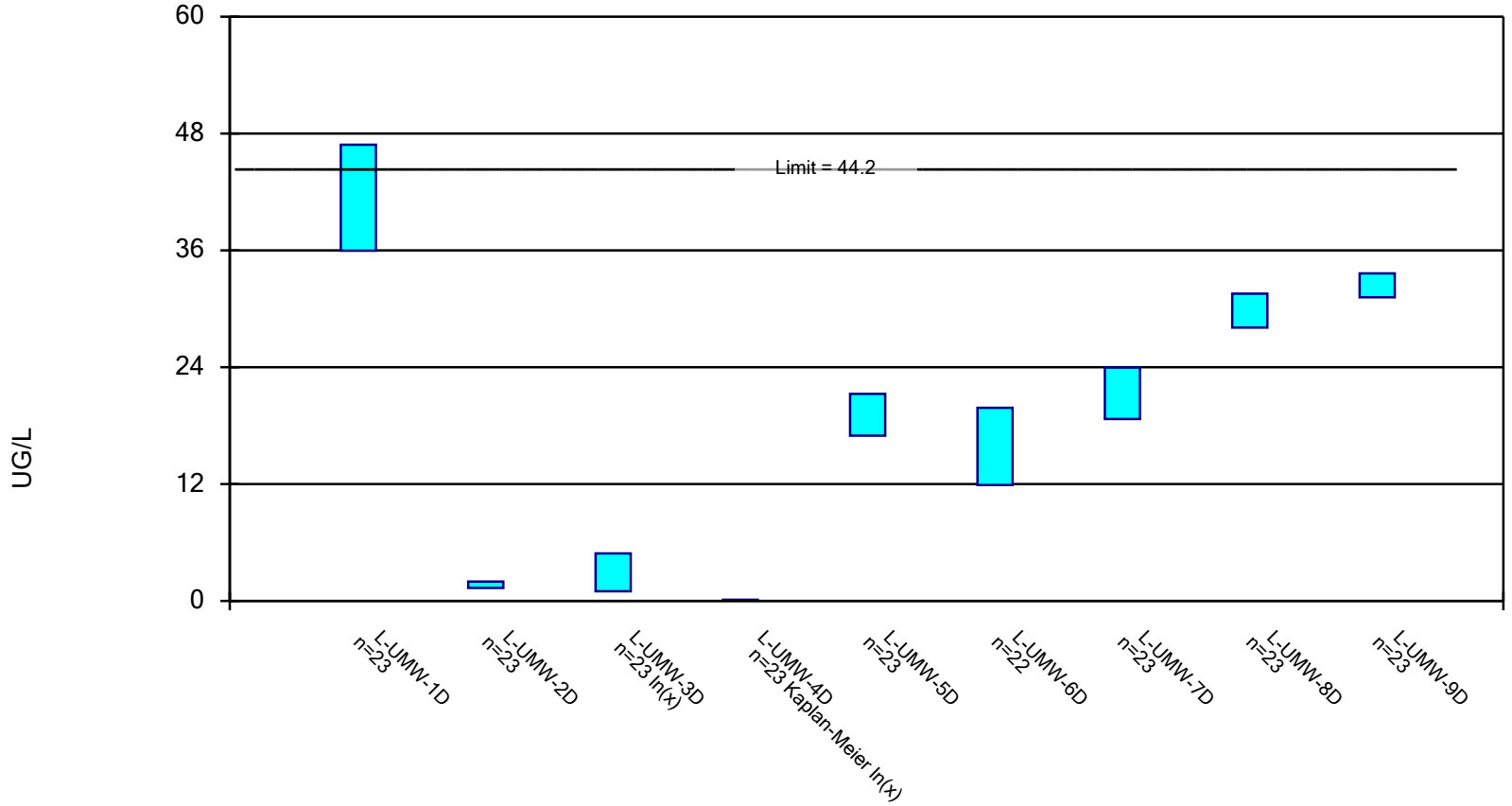
Constituent: ANTIMONY, TOTAL Analysis Run 3/17/2025 11:15 AM View: Assessment Monitoring

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.24 Software licensed to Rocksmith Geoengineering. UG

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



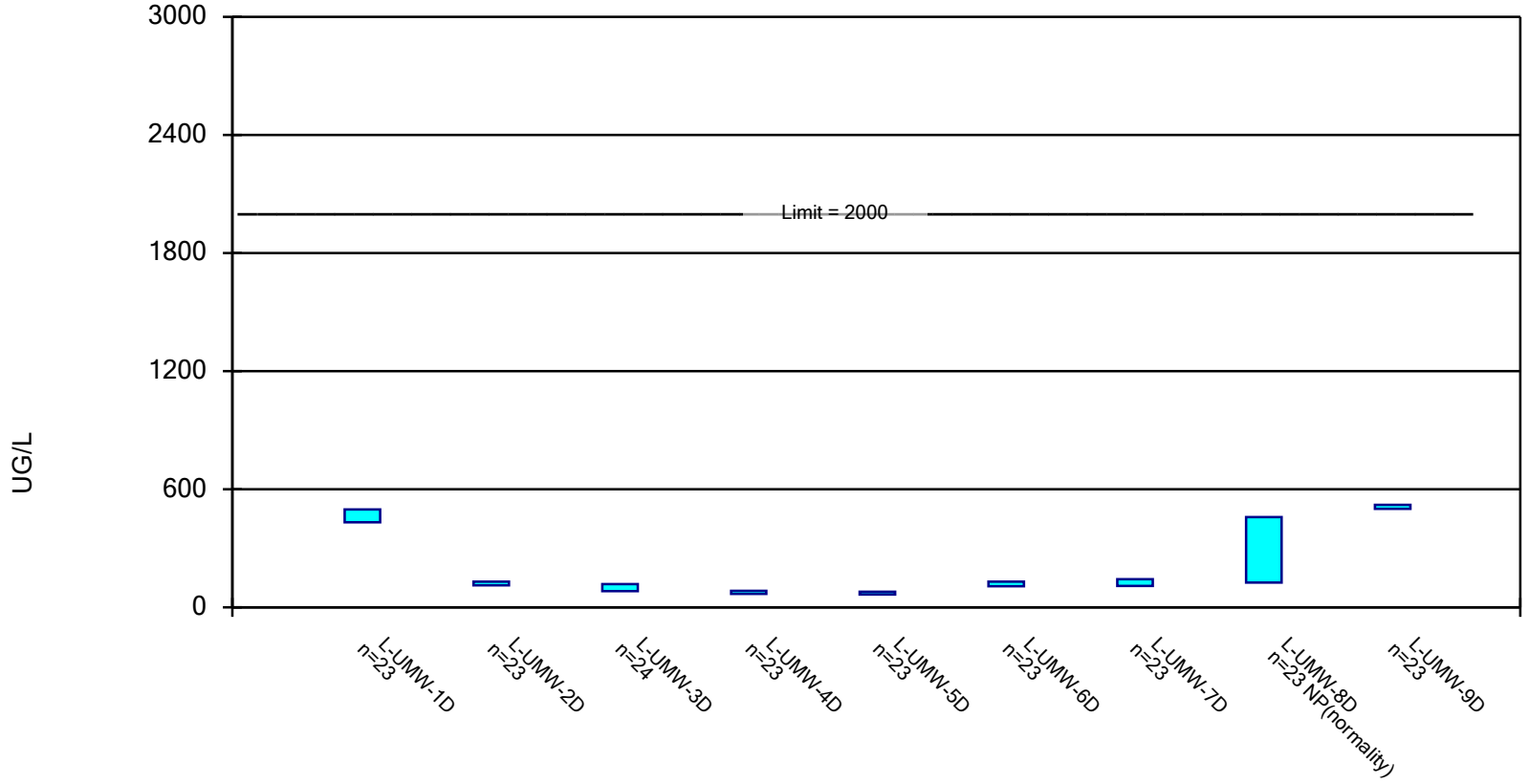
Constituent: ARSENIC, TOTAL Analysis Run 3/17/2025 11:15 AM View: Assessment Monitoring

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.24 Software licensed to Rocksmith Geoengineering. UG

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.



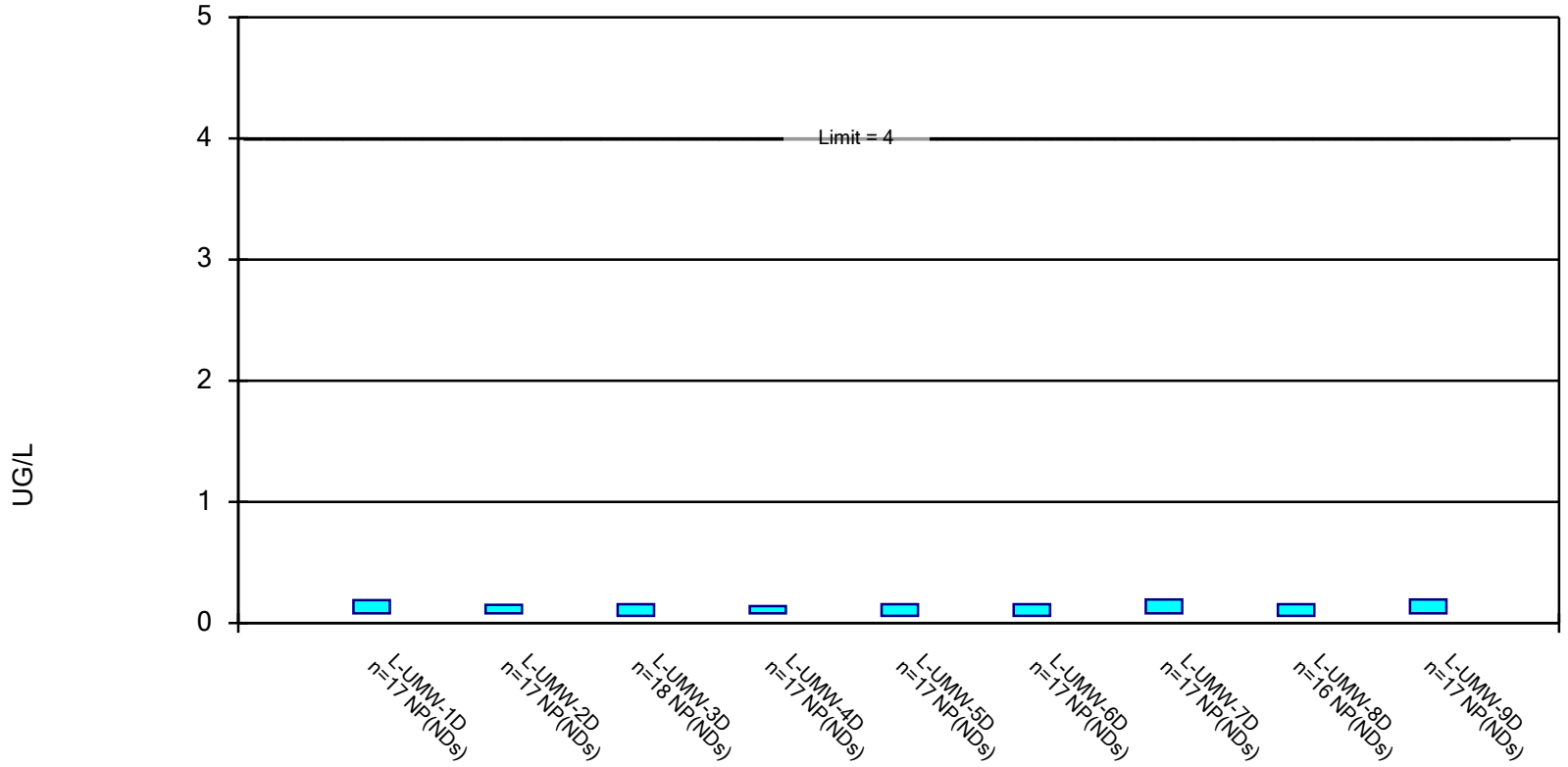
Constituent: BARIUM, TOTAL Analysis Run 3/17/2025 11:15 AM View: Assessment Monitoring

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.24 Software licensed to Rocksmith Geoengineering. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



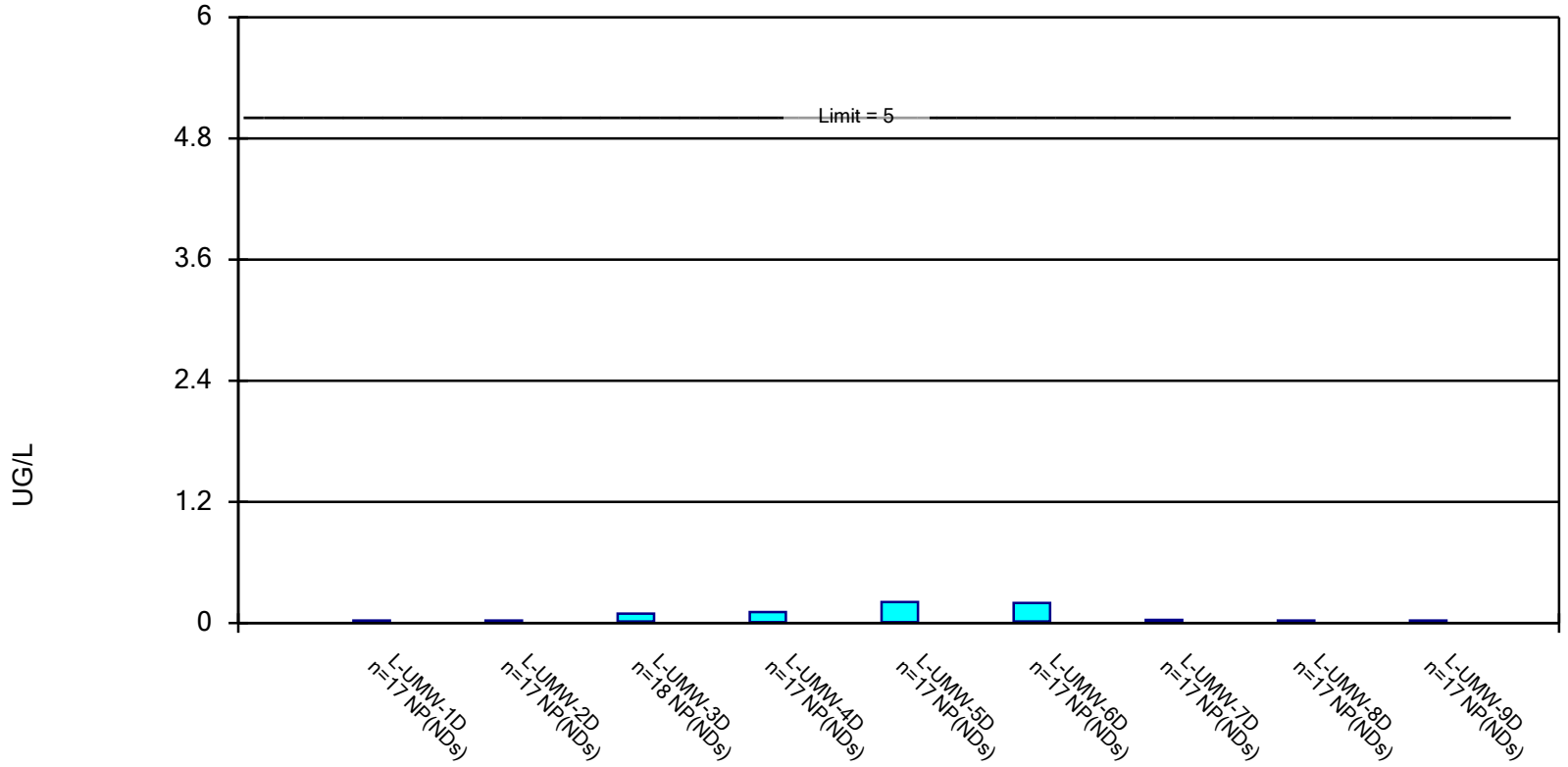
Constituent: BERYLLIUM, TOTAL Analysis Run 3/17/2025 11:15 AM View: Assessment Monitoring

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.24 Software licensed to Rocksmith Geoengineering. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



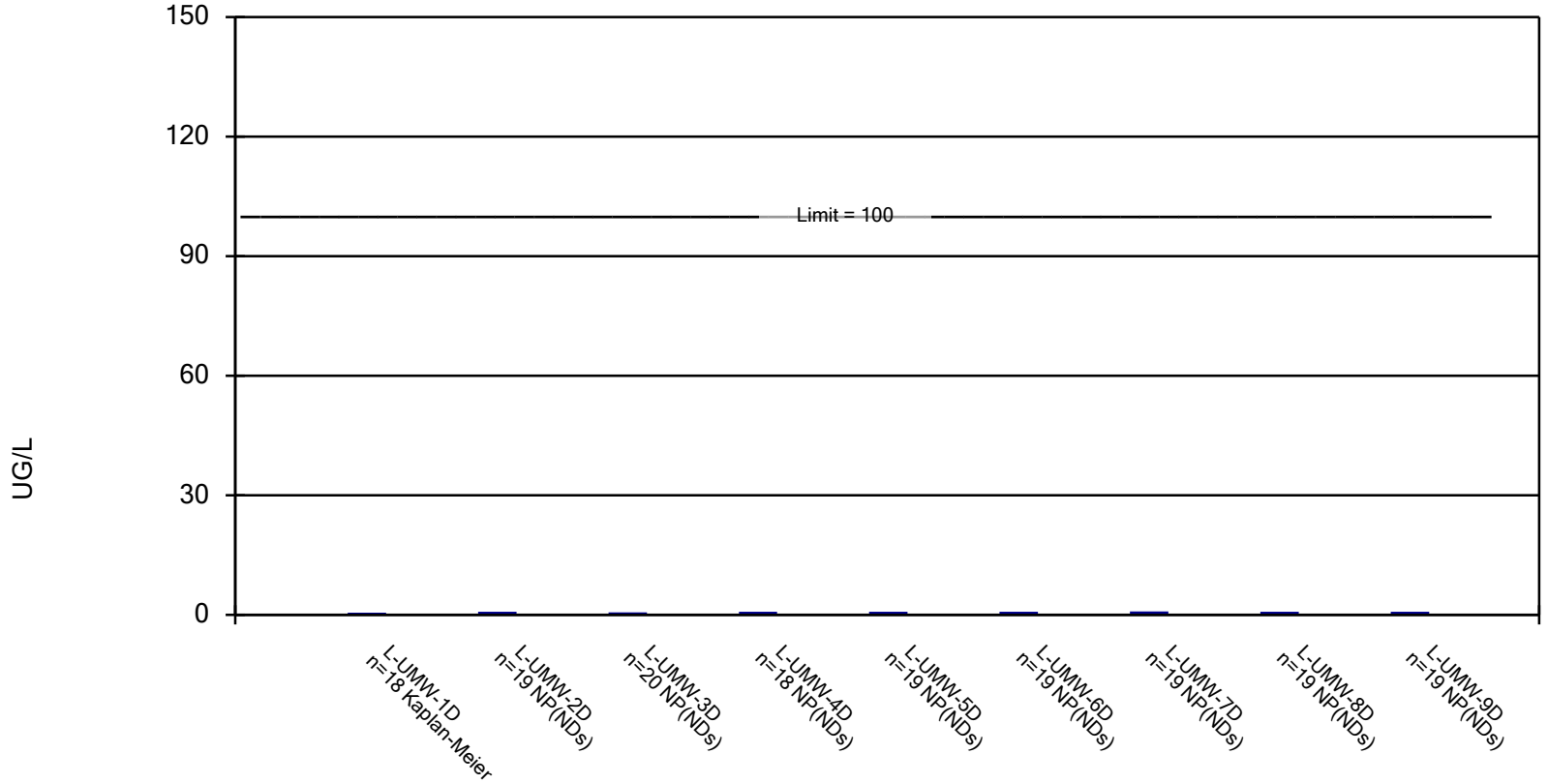
Constituent: CADMIUM, TOTAL Analysis Run 3/17/2025 11:15 AM View: Assessment Monitoring

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.24 Software licensed to Rocksmith Geoengineering. UG

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.



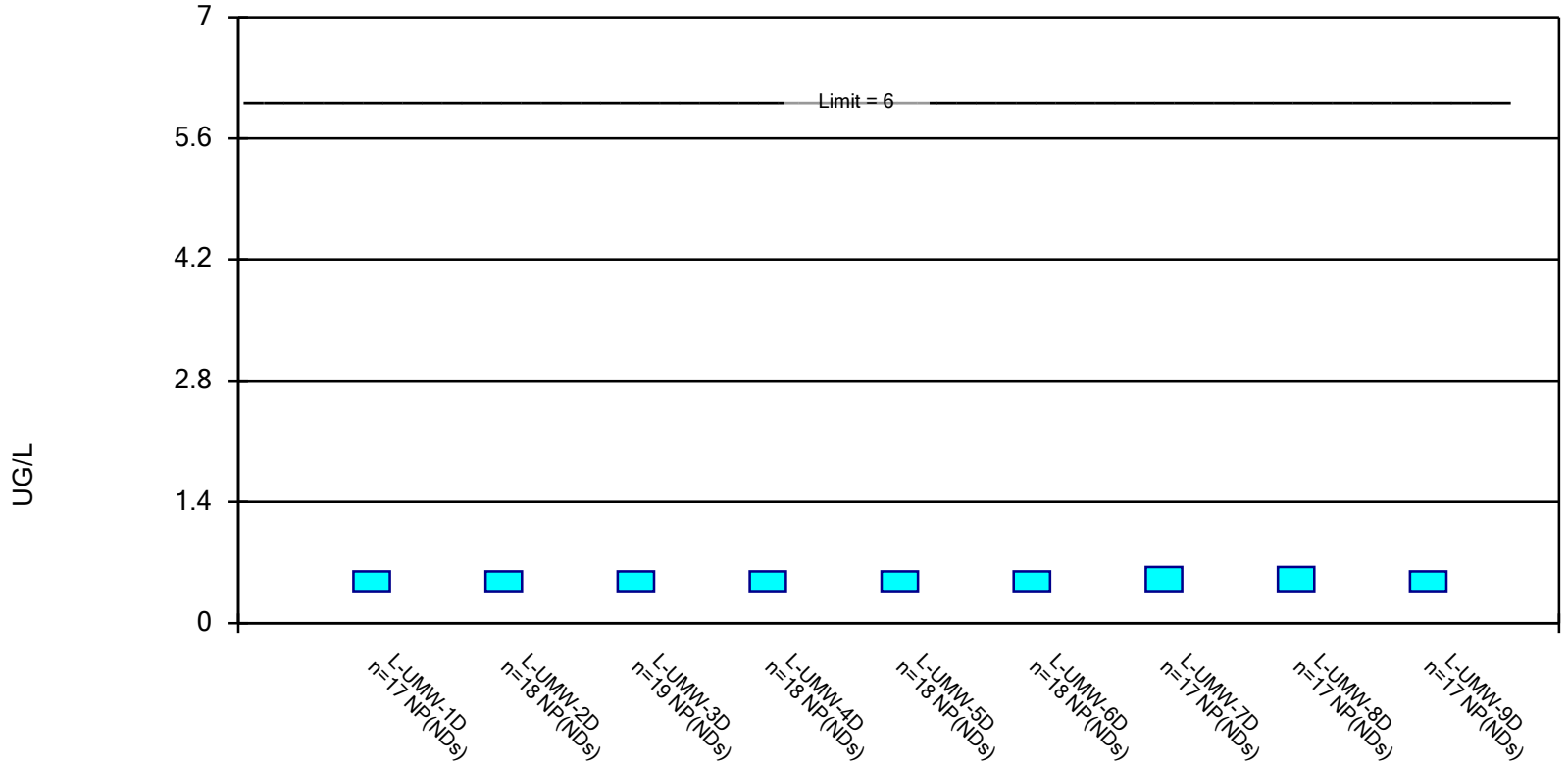
Constituent: CHROMIUM, TOTAL Analysis Run 3/17/2025 11:15 AM View: Assessment Monitoring

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.24 Software licensed to Rocksmith Geoengineering. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



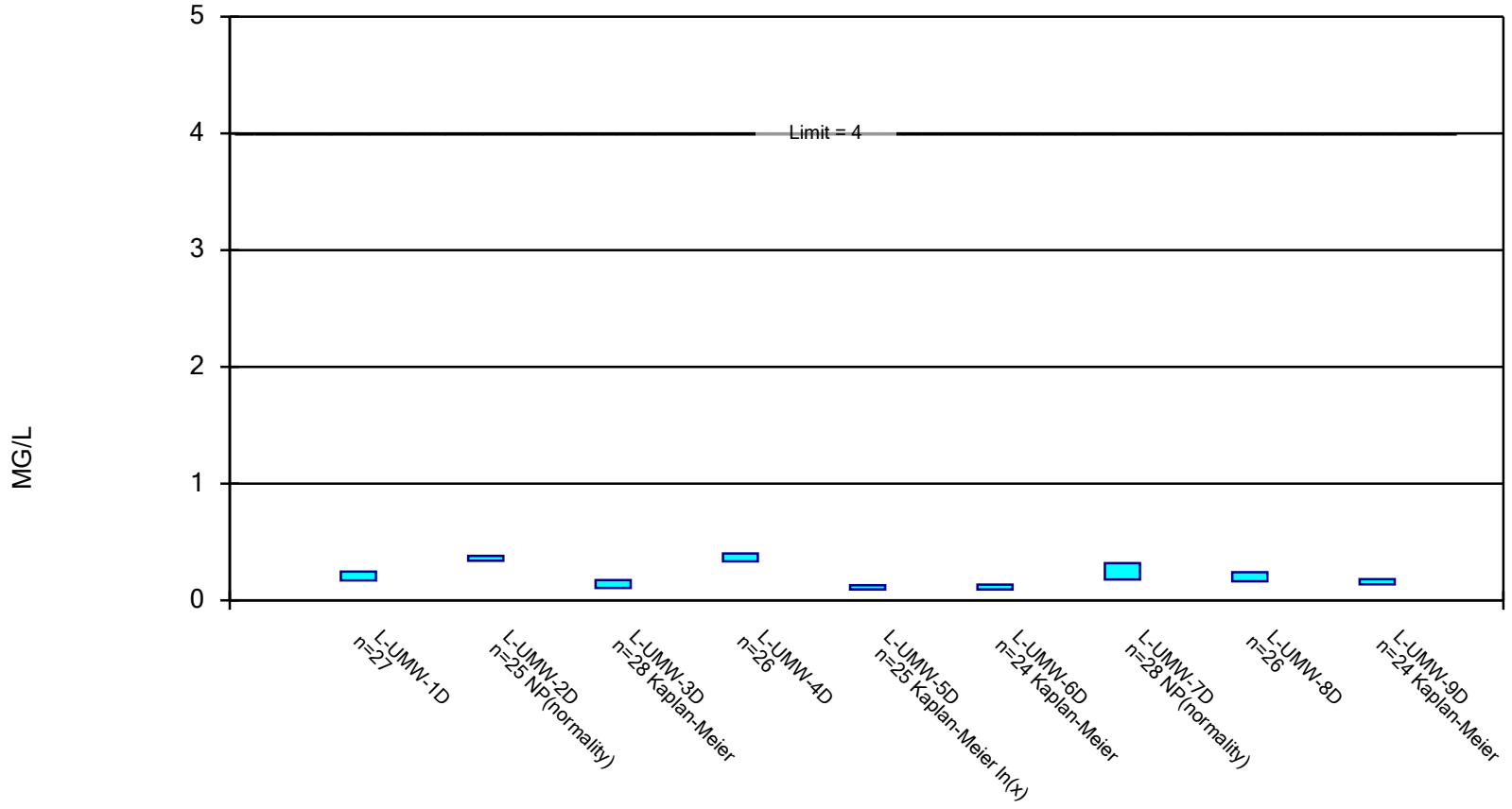
Constituent: COBALT, TOTAL Analysis Run 3/17/2025 11:15 AM View: Assessment Monitoring

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.24 Software licensed to Rocksmith Geoengineering. UG

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.



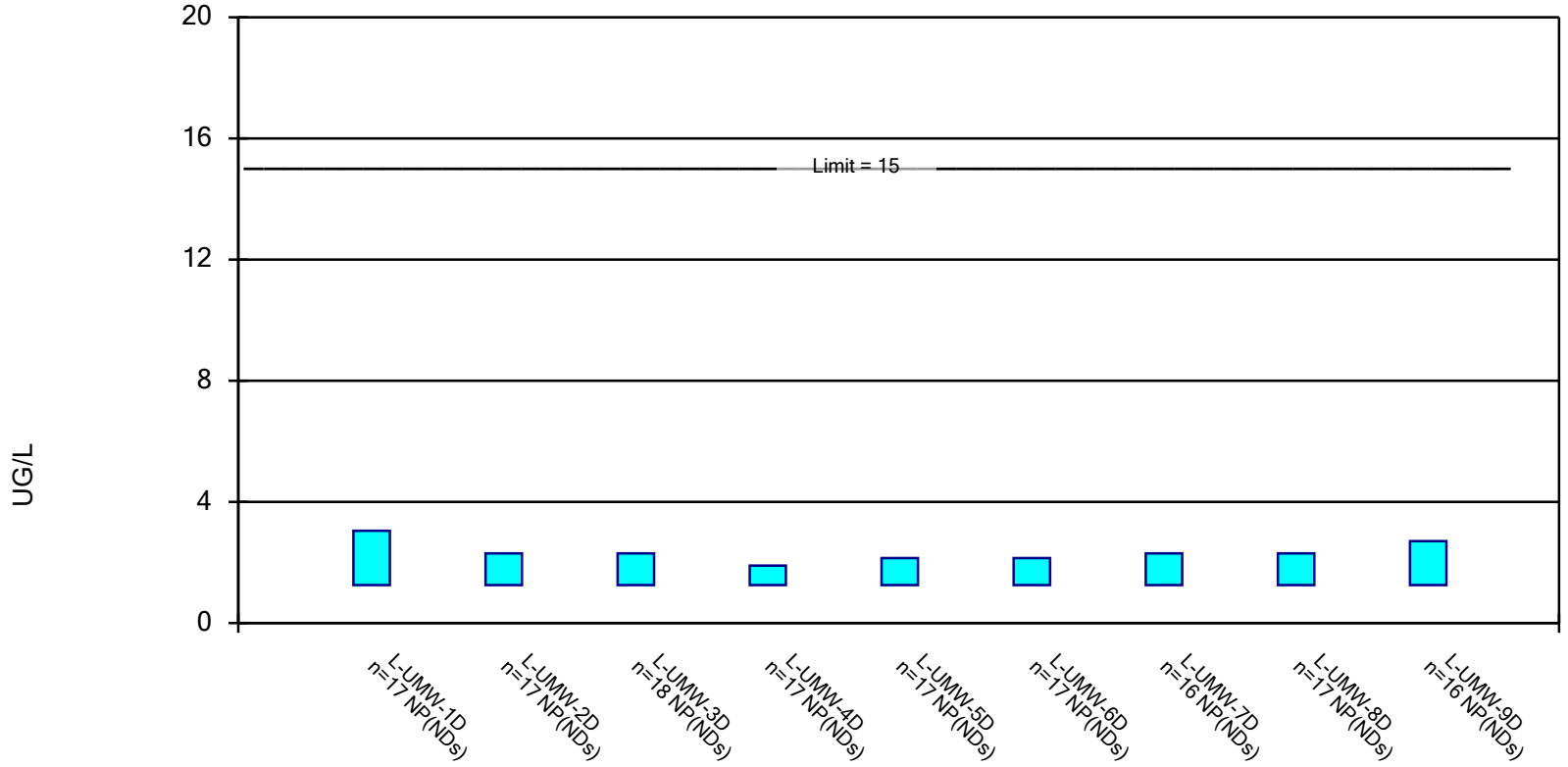
Constituent: FLUORIDE, TOTAL Analysis Run 3/17/2025 11:15 AM View: Assessment Monitoring

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.24 Software licensed to Rocksmith Geoengineering. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



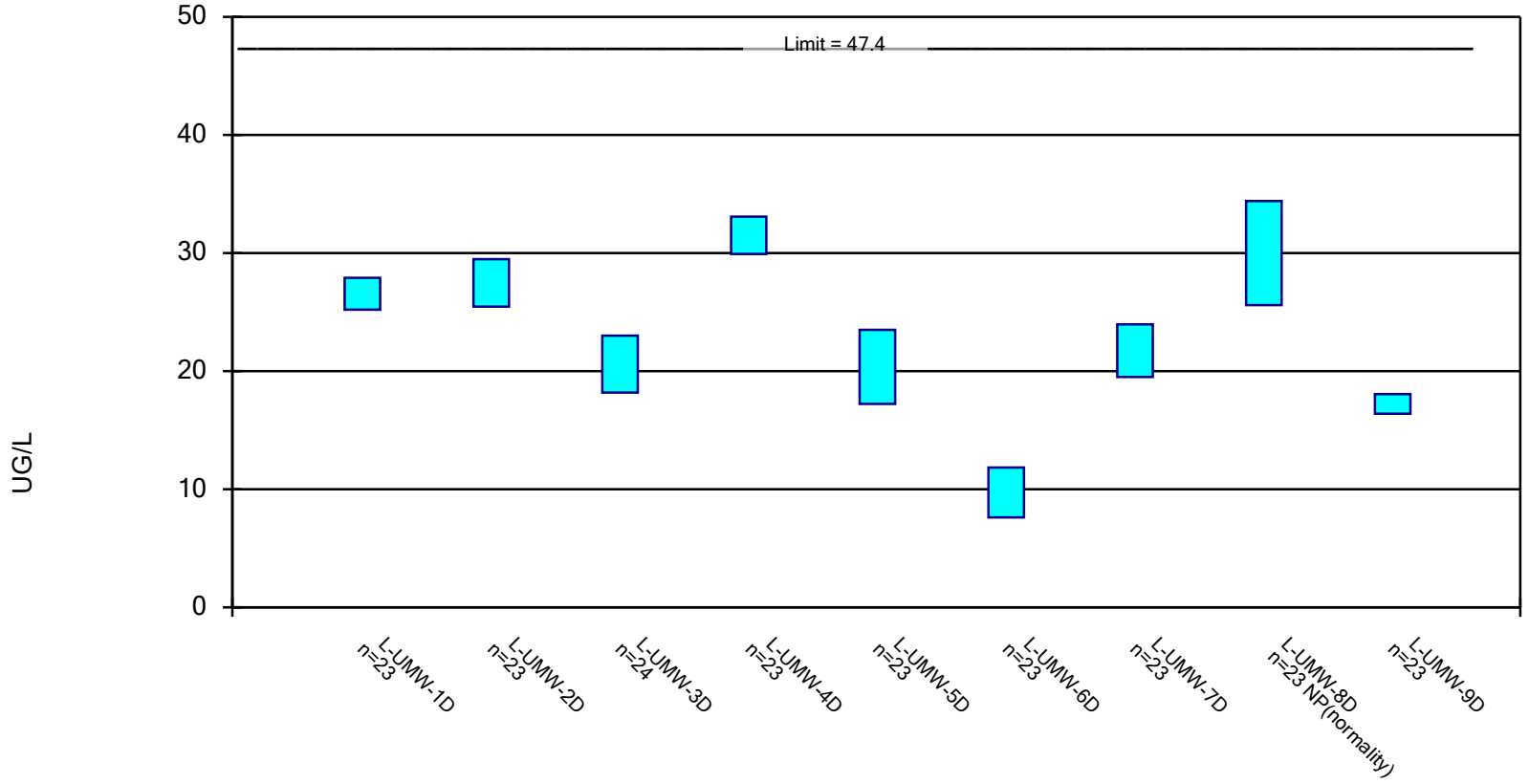
Constituent: LEAD, TOTAL Analysis Run 3/17/2025 11:15 AM View: Assessment Monitoring

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.24 Software licensed to Rocksmith Geoengineering. UG

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.



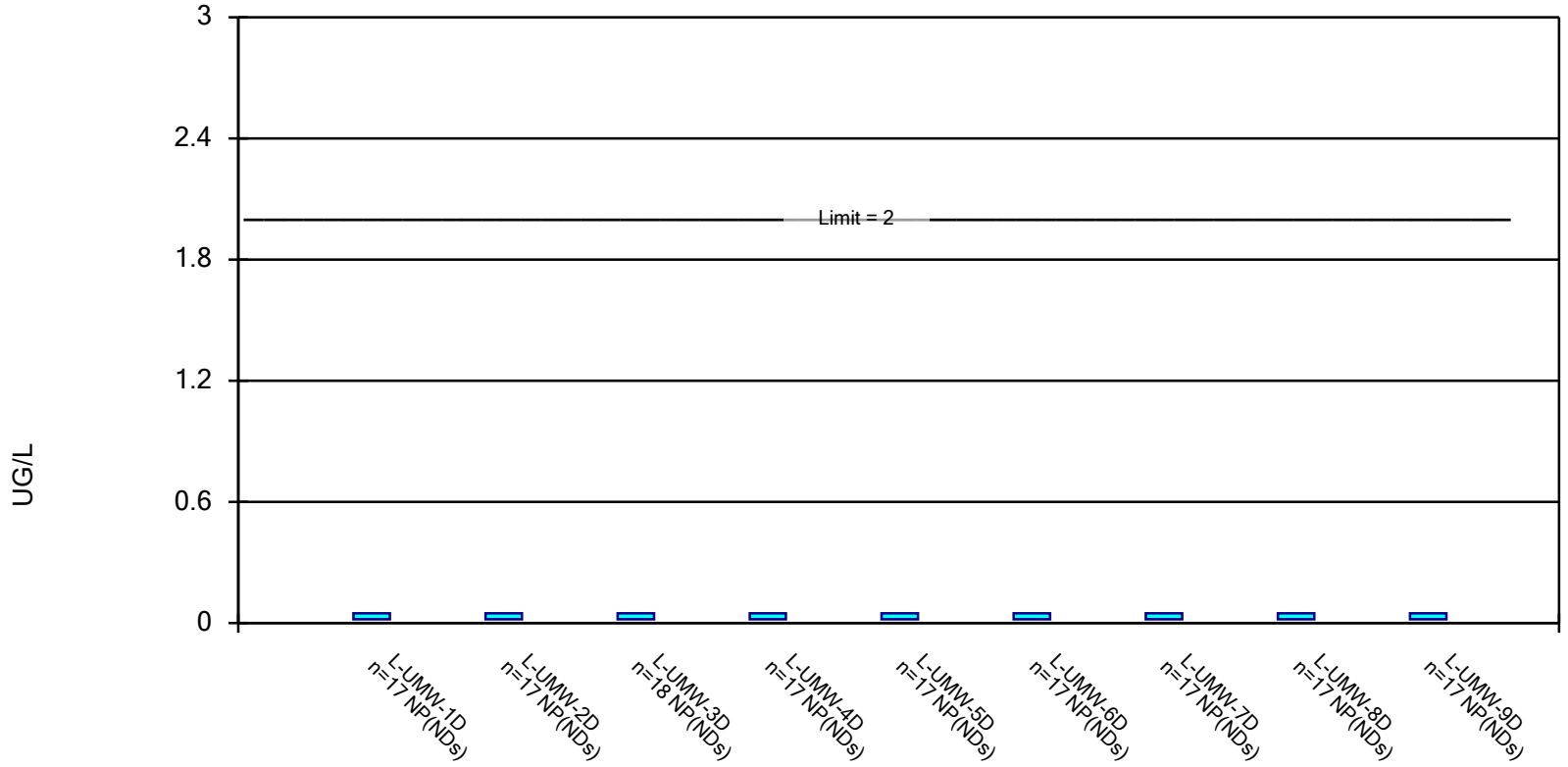
Constituent: LITHIUM, TOTAL Analysis Run 3/17/2025 11:15 AM View: Assessment Monitoring

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.24 Software licensed to Rocksmith Geoengineering. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



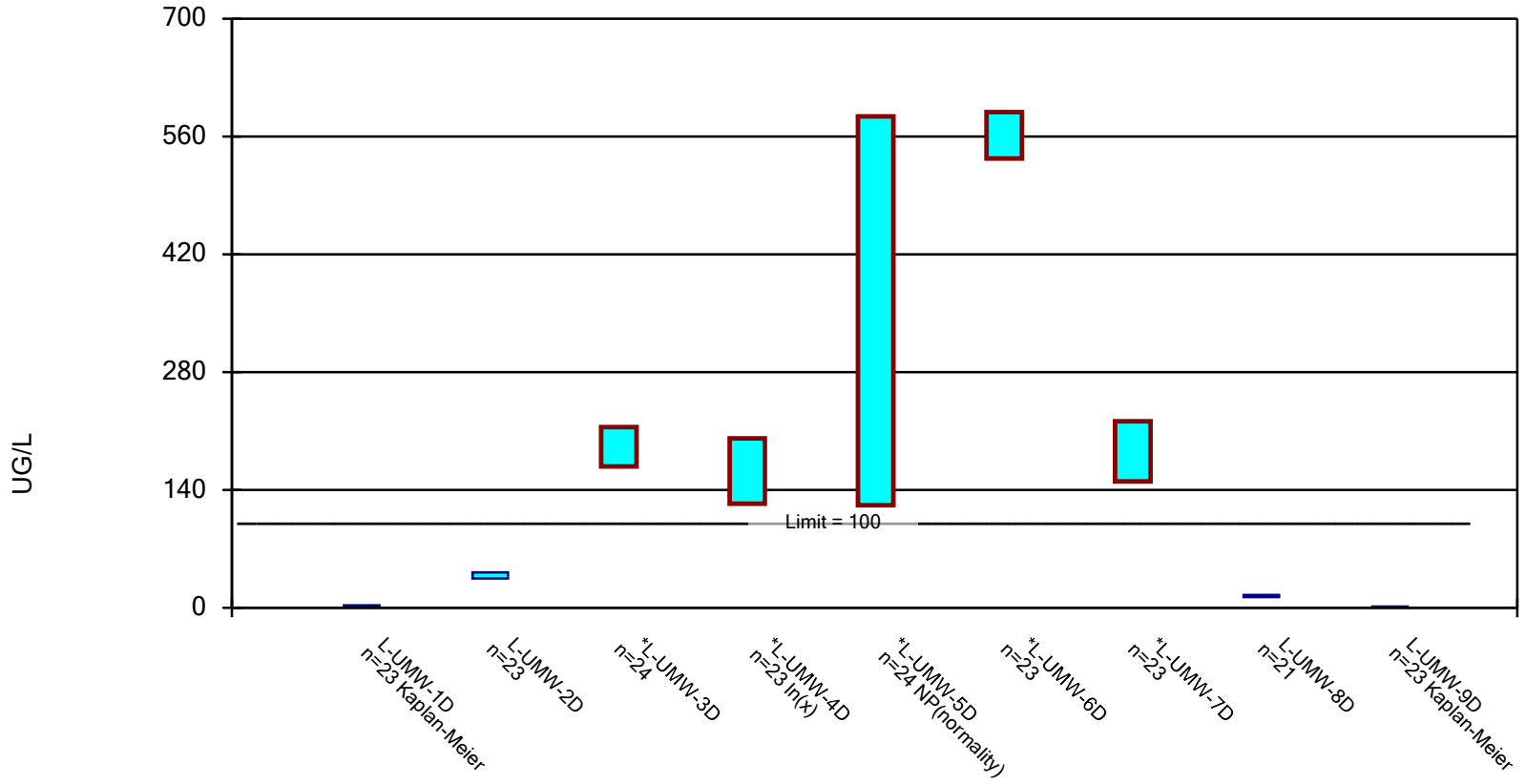
Constituent: MERCURY, TOTAL Analysis Run 3/17/2025 11:15 AM View: Assessment Monitoring

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.24 Software licensed to Rocksmith Geoengineering. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



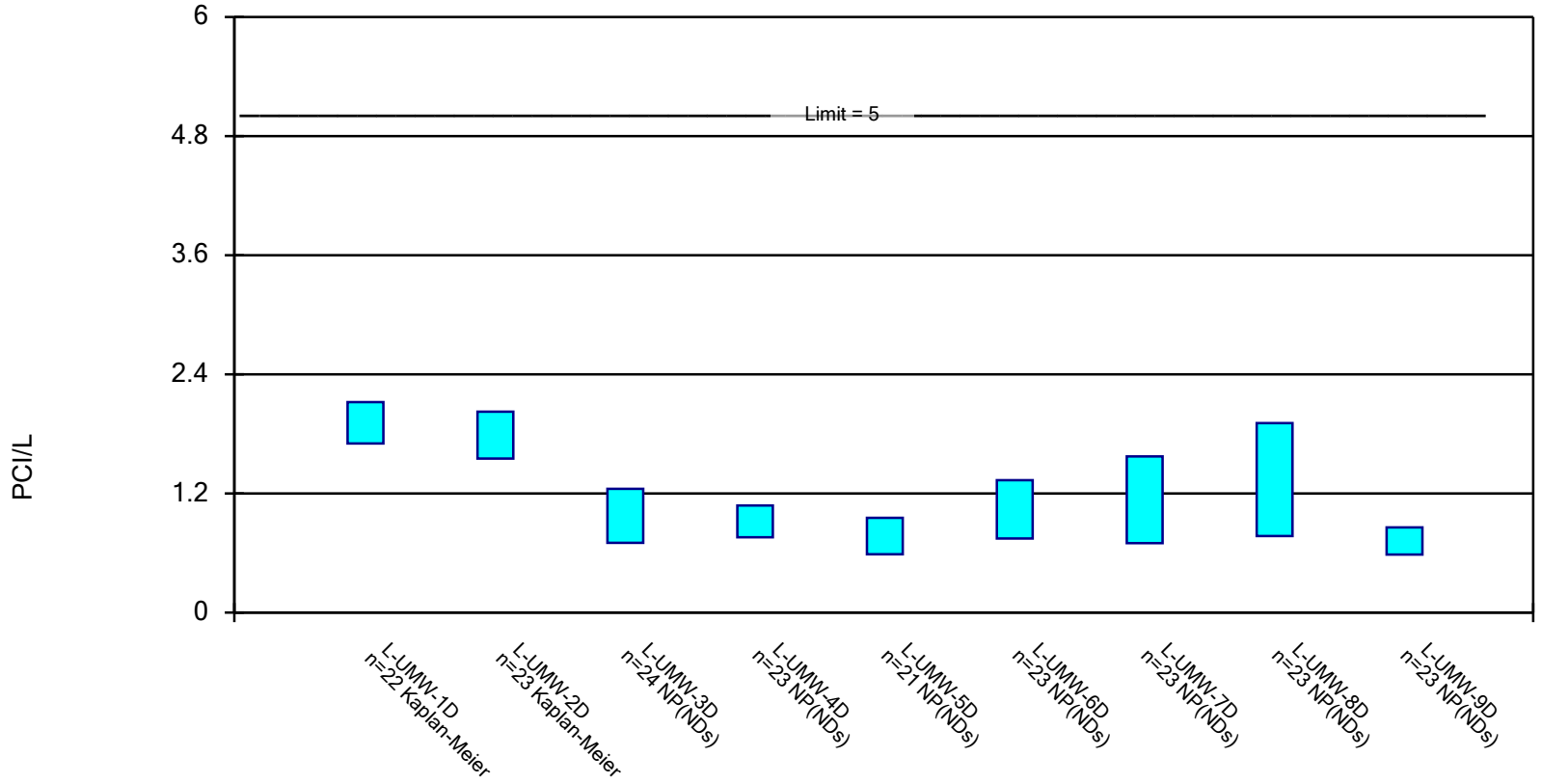
Constituent: MOLYBDENUM, TOTAL Analysis Run 3/17/2025 11:15 AM View: Assessment Monitoring

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.24 Software licensed to Rocksmith Geoengineering. UG

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.

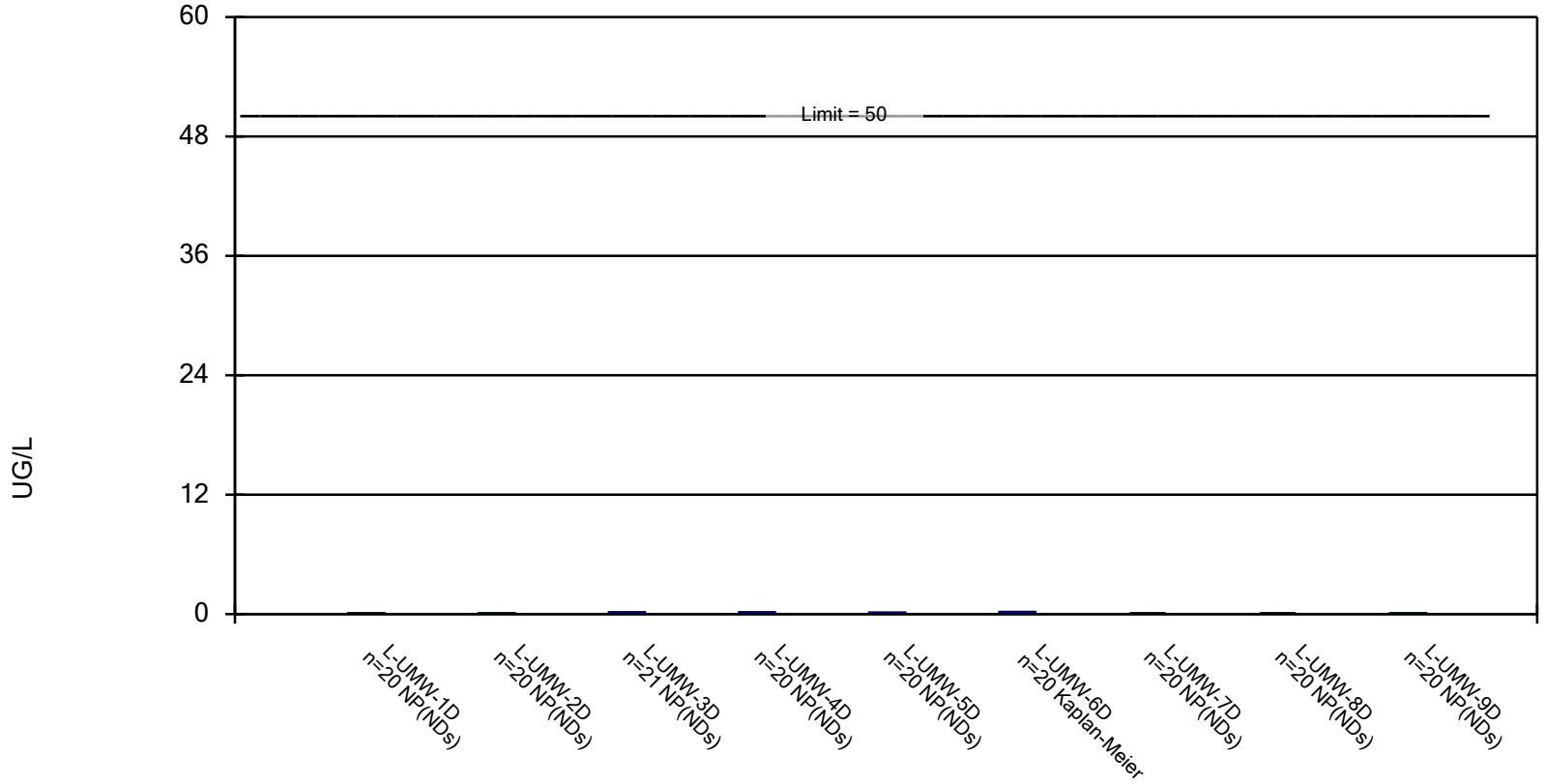


Constituent: Radium [226 + 228] Analysis Run 3/17/2025 11:15 AM View: Assessment Monitoring

Labadie E.C. Client: Ameren Data: LEC DATA

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.



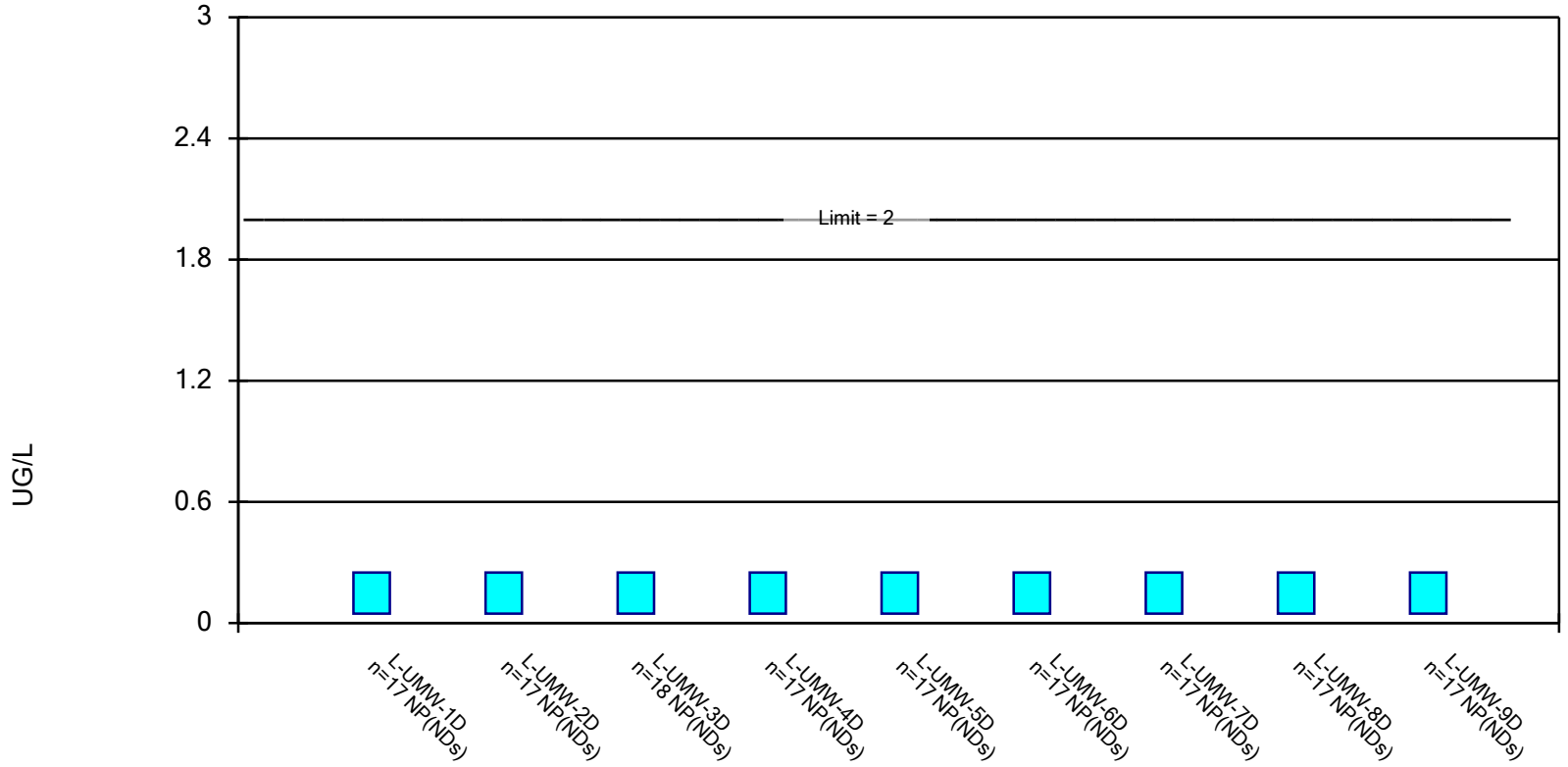
Constituent: SELENIUM, TOTAL Analysis Run 3/17/2025 11:15 AM View: Assessment Monitoring

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.24 Software licensed to Rocksmith Geoengineering. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: THALLIUM, TOTAL Analysis Run 3/17/2025 11:15 AM View: Assessment Monitoring

Labadie E.C. Client: Ameren Data: LEC DATA

Confidence Interval

Labadie E.C. Client: Ameren Data: LEC DATA Printed 3/17/2025, 11:16 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
ANTIMONY, TOTAL (UG/L)	L-UMW-1D	0.06	0.029	6	No	18	88.89	No	0.01	NP (NDs)
ANTIMONY, TOTAL (UG/L)	L-UMW-2D	0.06	0.013	6	No	18	100	No	0.01	NP (NDs)
ANTIMONY, TOTAL (UG/L)	L-UMW-3D	0.06	0.029	6	No	19	89.47	No	0.01	NP (NDs)
ANTIMONY, TOTAL (UG/L)	L-UMW-4D	0.06	0.029	6	No	18	94.44	No	0.01	NP (NDs)
ANTIMONY, TOTAL (UG/L)	L-UMW-5D	0.094	0.039	6	No	18	66.67	No	0.01	NP (NDs)
ANTIMONY, TOTAL (UG/L)	L-UMW-6D	0.06	0.029	6	No	18	94.44	No	0.01	NP (NDs)
ANTIMONY, TOTAL (UG/L)	L-UMW-7D	0.06	0.013	6	No	18	100	No	0.01	NP (NDs)
ANTIMONY, TOTAL (UG/L)	L-UMW-8D	0.06	0.013	6	No	18	100	No	0.01	NP (NDs)
ANTIMONY, TOTAL (UG/L)	L-UMW-9D	0.06	0.029	6	No	18	94.44	No	0.01	NP (NDs)
ARSENIC, TOTAL (UG/L)	L-UMW-1D	46.86	35.95	44.2	No	23	0	No	0.01	Param.
ARSENIC, TOTAL (UG/L)	L-UMW-2D	2.006	1.349	44.2	No	23	0	No	0.01	Param.
ARSENIC, TOTAL (UG/L)	L-UMW-3D	4.88	0.9973	44.2	No	23	4.348	ln(x)	0.01	Param.
ARSENIC, TOTAL (UG/L)	L-UMW-4D	0.1379	0.09892	44.2	No	23	34.78	ln(x)	0.01	Param.
ARSENIC, TOTAL (UG/L)	L-UMW-5D	21.27	16.98	44.2	No	23	0	No	0.01	Param.
ARSENIC, TOTAL (UG/L)	L-UMW-6D	19.84	11.91	44.2	No	22	0	No	0.01	Param.
ARSENIC, TOTAL (UG/L)	L-UMW-7D	23.97	18.68	44.2	No	23	0	No	0.01	Param.
ARSENIC, TOTAL (UG/L)	L-UMW-8D	31.54	28.07	44.2	No	23	0	No	0.01	Param.
ARSENIC, TOTAL (UG/L)	L-UMW-9D	33.64	31.19	44.2	No	23	0	No	0.01	Param.
BARIUM, TOTAL (UG/L)	L-UMW-1D	498.1	432.3	2000	No	23	0	No	0.01	Param.
BARIUM, TOTAL (UG/L)	L-UMW-2D	130.6	112.3	2000	No	23	0	No	0.01	Param.
BARIUM, TOTAL (UG/L)	L-UMW-3D	117.7	82.78	2000	No	24	0	No	0.01	Param.
BARIUM, TOTAL (UG/L)	L-UMW-4D	84.34	68.22	2000	No	23	0	No	0.01	Param.
BARIUM, TOTAL (UG/L)	L-UMW-5D	78.98	65.59	2000	No	23	0	No	0.01	Param.
BARIUM, TOTAL (UG/L)	L-UMW-6D	130.7	107.7	2000	No	23	0	No	0.01	Param.
BARIUM, TOTAL (UG/L)	L-UMW-7D	143.4	108.5	2000	No	23	0	No	0.01	Param.
BARIUM, TOTAL (UG/L)	L-UMW-8D	458	126	2000	No	23	0	No	0.01	NP (normality)
BARIUM, TOTAL (UG/L)	L-UMW-9D	520.3	500.2	2000	No	23	0	No	0.01	Param.
BERYLLIUM, TOTAL (UG/L)	L-UMW-1D	0.19	0.08	4	No	17	88.24	No	0.01	NP (NDs)
BERYLLIUM, TOTAL (UG/L)	L-UMW-2D	0.15	0.08	4	No	17	94.12	No	0.01	NP (NDs)
BERYLLIUM, TOTAL (UG/L)	L-UMW-3D	0.155	0.06	4	No	18	100	No	0.01	NP (NDs)
BERYLLIUM, TOTAL (UG/L)	L-UMW-4D	0.14	0.08	4	No	17	94.12	No	0.01	NP (NDs)
BERYLLIUM, TOTAL (UG/L)	L-UMW-5D	0.155	0.06	4	No	17	100	No	0.01	NP (NDs)
BERYLLIUM, TOTAL (UG/L)	L-UMW-6D	0.155	0.06	4	No	17	100	No	0.01	NP (NDs)
BERYLLIUM, TOTAL (UG/L)	L-UMW-7D	0.195	0.08	4	No	17	82.35	No	0.01	NP (NDs)
BERYLLIUM, TOTAL (UG/L)	L-UMW-8D	0.155	0.06	4	No	16	100	No	0.01	NP (NDs)
BERYLLIUM, TOTAL (UG/L)	L-UMW-9D	0.195	0.08	4	No	17	88.24	No	0.01	NP (NDs)
CADMIUM, TOTAL (UG/L)	L-UMW-1D	0.0265	0.009	5	No	17	100	No	0.01	NP (NDs)
CADMIUM, TOTAL (UG/L)	L-UMW-2D	0.0265	0.009	5	No	17	100	No	0.01	NP (NDs)
CADMIUM, TOTAL (UG/L)	L-UMW-3D	0.094	0.0145	5	No	18	55.56	No	0.01	NP (NDs)
CADMIUM, TOTAL (UG/L)	L-UMW-4D	0.11	0.009	5	No	17	76.47	No	0.01	NP (NDs)
CADMIUM, TOTAL (UG/L)	L-UMW-5D	0.21	0.009	5	No	17	70.59	No	0.01	NP (NDs)
CADMIUM, TOTAL (UG/L)	L-UMW-6D	0.2	0.0145	5	No	17	58.82	No	0.01	NP (NDs)
CADMIUM, TOTAL (UG/L)	L-UMW-7D	0.031	0.009	5	No	17	82.35	No	0.01	NP (NDs)
CADMIUM, TOTAL (UG/L)	L-UMW-8D	0.0265	0.009	5	No	17	100	No	0.01	NP (NDs)
CADMIUM, TOTAL (UG/L)	L-UMW-9D	0.0265	0.009	5	No	17	100	No	0.01	NP (NDs)
CHROMIUM, TOTAL (UG/L)	L-UMW-1D	0.2653	0.1124	100	No	18	50	No	0.01	Param.
CHROMIUM, TOTAL (UG/L)	L-UMW-2D	0.47	0.039	100	No	19	57.89	No	0.01	NP (NDs)
CHROMIUM, TOTAL (UG/L)	L-UMW-3D	0.31	0.11	100	No	20	70	No	0.01	NP (NDs)
CHROMIUM, TOTAL (UG/L)	L-UMW-4D	0.49	0.11	100	No	18	66.67	No	0.01	NP (NDs)
CHROMIUM, TOTAL (UG/L)	L-UMW-5D	0.5	0.067	100	No	19	73.68	No	0.01	NP (NDs)

Confidence Interval

Labadie E.C. Client: Ameren Data: LEC DATA Printed 3/17/2025, 11:16 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
CHROMIUM, TOTAL (UG/L)	L-UMW-6D	0.5	0.079	100	No	19	63.16	No	0.01	NP (NDs)
CHROMIUM, TOTAL (UG/L)	L-UMW-7D	0.56	0.11	100	No	19	52.63	No	0.01	NP (NDs)
CHROMIUM, TOTAL (UG/L)	L-UMW-8D	0.5	0.064	100	No	19	63.16	No	0.01	NP (NDs)
CHROMIUM, TOTAL (UG/L)	L-UMW-9D	0.5	0.064	100	No	19	63.16	No	0.01	NP (NDs)
COBALT, TOTAL (UG/L)	L-UMW-1D	0.6	0.36	6	No	17	100	No	0.01	NP (NDs)
COBALT, TOTAL (UG/L)	L-UMW-2D	0.6	0.36	6	No	18	100	No	0.01	NP (NDs)
COBALT, TOTAL (UG/L)	L-UMW-3D	0.6	0.36	6	No	19	100	No	0.01	NP (NDs)
COBALT, TOTAL (UG/L)	L-UMW-4D	0.6	0.36	6	No	18	100	No	0.01	NP (NDs)
COBALT, TOTAL (UG/L)	L-UMW-5D	0.6	0.36	6	No	18	100	No	0.01	NP (NDs)
COBALT, TOTAL (UG/L)	L-UMW-6D	0.6	0.36	6	No	18	100	No	0.01	NP (NDs)
COBALT, TOTAL (UG/L)	L-UMW-7D	0.65	0.36	6	No	17	100	No	0.01	NP (NDs)
COBALT, TOTAL (UG/L)	L-UMW-8D	0.65	0.36	6	No	17	94.12	No	0.01	NP (NDs)
COBALT, TOTAL (UG/L)	L-UMW-9D	0.6	0.36	6	No	17	100	No	0.01	NP (NDs)
FLUORIDE, TOTAL (MG/L)	L-UMW-1D	0.2453	0.1717	4	No	27	14.81	No	0.01	Param.
FLUORIDE, TOTAL (MG/L)	L-UMW-2D	0.38	0.34	4	No	25	24	No	0.01	NP (normality)
FLUORIDE, TOTAL (MG/L)	L-UMW-3D	0.1741	0.1057	4	No	28	39.29	No	0.01	Param.
FLUORIDE, TOTAL (MG/L)	L-UMW-4D	0.4013	0.3334	4	No	26	0	No	0.01	Param.
FLUORIDE, TOTAL (MG/L)	L-UMW-5D	0.1308	0.09244	4	No	25	36	ln(x)	0.01	Param.
FLUORIDE, TOTAL (MG/L)	L-UMW-6D	0.1345	0.0946	4	No	24	37.5	No	0.01	Param.
FLUORIDE, TOTAL (MG/L)	L-UMW-7D	0.32	0.18	4	No	28	17.86	No	0.01	NP (normality)
FLUORIDE, TOTAL (MG/L)	L-UMW-8D	0.2411	0.1628	4	No	26	7.692	No	0.01	Param.
FLUORIDE, TOTAL (MG/L)	L-UMW-9D	0.1808	0.1374	4	No	24	16.67	No	0.01	Param.
LEAD, TOTAL (UG/L)	L-UMW-1D	3.05	1.25	15	No	17	76.47	No	0.01	NP (NDs)
LEAD, TOTAL (UG/L)	L-UMW-2D	2.3	1.25	15	No	17	82.35	No	0.01	NP (NDs)
LEAD, TOTAL (UG/L)	L-UMW-3D	2.3	1.25	15	No	18	83.33	No	0.01	NP (NDs)
LEAD, TOTAL (UG/L)	L-UMW-4D	1.9	1.25	15	No	17	100	No	0.01	NP (NDs)
LEAD, TOTAL (UG/L)	L-UMW-5D	2.15	1.25	15	No	17	88.24	No	0.01	NP (NDs)
LEAD, TOTAL (UG/L)	L-UMW-6D	2.15	1.25	15	No	17	88.24	No	0.01	NP (NDs)
LEAD, TOTAL (UG/L)	L-UMW-7D	2.3	1.25	15	No	16	87.5	No	0.01	NP (NDs)
LEAD, TOTAL (UG/L)	L-UMW-8D	2.3	1.25	15	No	17	82.35	No	0.01	NP (NDs)
LEAD, TOTAL (UG/L)	L-UMW-9D	2.7	1.25	15	No	16	68.75	No	0.01	NP (NDs)
LITHIUM, TOTAL (UG/L)	L-UMW-1D	27.9	25.2	47.4	No	23	0	No	0.01	Param.
LITHIUM, TOTAL (UG/L)	L-UMW-2D	29.49	25.47	47.4	No	23	0	No	0.01	Param.
LITHIUM, TOTAL (UG/L)	L-UMW-3D	23.01	18.19	47.4	No	24	0	No	0.01	Param.
LITHIUM, TOTAL (UG/L)	L-UMW-4D	33.07	29.91	47.4	No	23	0	No	0.01	Param.
LITHIUM, TOTAL (UG/L)	L-UMW-5D	23.49	17.24	47.4	No	23	0	No	0.01	Param.
LITHIUM, TOTAL (UG/L)	L-UMW-6D	11.83	7.623	47.4	No	23	4.348	No	0.01	Param.
LITHIUM, TOTAL (UG/L)	L-UMW-7D	23.95	19.51	47.4	No	23	4.348	No	0.01	Param.
LITHIUM, TOTAL (UG/L)	L-UMW-8D	34.4	25.6	47.4	No	23	0	No	0.01	NP (normality)
LITHIUM, TOTAL (UG/L)	L-UMW-9D	18.06	16.39	47.4	No	23	0	No	0.01	Param.
MERCURY, TOTAL (UG/L)	L-UMW-1D	0.048	0.0195	2	No	17	100	No	0.01	NP (NDs)
MERCURY, TOTAL (UG/L)	L-UMW-2D	0.048	0.0195	2	No	17	100	No	0.01	NP (NDs)
MERCURY, TOTAL (UG/L)	L-UMW-3D	0.048	0.0195	2	No	18	100	No	0.01	NP (NDs)
MERCURY, TOTAL (UG/L)	L-UMW-4D	0.048	0.0195	2	No	17	100	No	0.01	NP (NDs)
MERCURY, TOTAL (UG/L)	L-UMW-5D	0.048	0.0195	2	No	17	100	No	0.01	NP (NDs)
MERCURY, TOTAL (UG/L)	L-UMW-6D	0.048	0.0195	2	No	17	100	No	0.01	NP (NDs)
MERCURY, TOTAL (UG/L)	L-UMW-7D	0.048	0.0195	2	No	17	100	No	0.01	NP (NDs)
MERCURY, TOTAL (UG/L)	L-UMW-8D	0.048	0.0195	2	No	17	100	No	0.01	NP (NDs)
MERCURY, TOTAL (UG/L)	L-UMW-9D	0.048	0.0195	2	No	17	100	No	0.01	NP (NDs)
MOLYBDENUM, TOTAL (UG/L)	L-UMW-1D	3.079	1.369	100	No	23	21.74	No	0.01	Param.

Confidence Interval

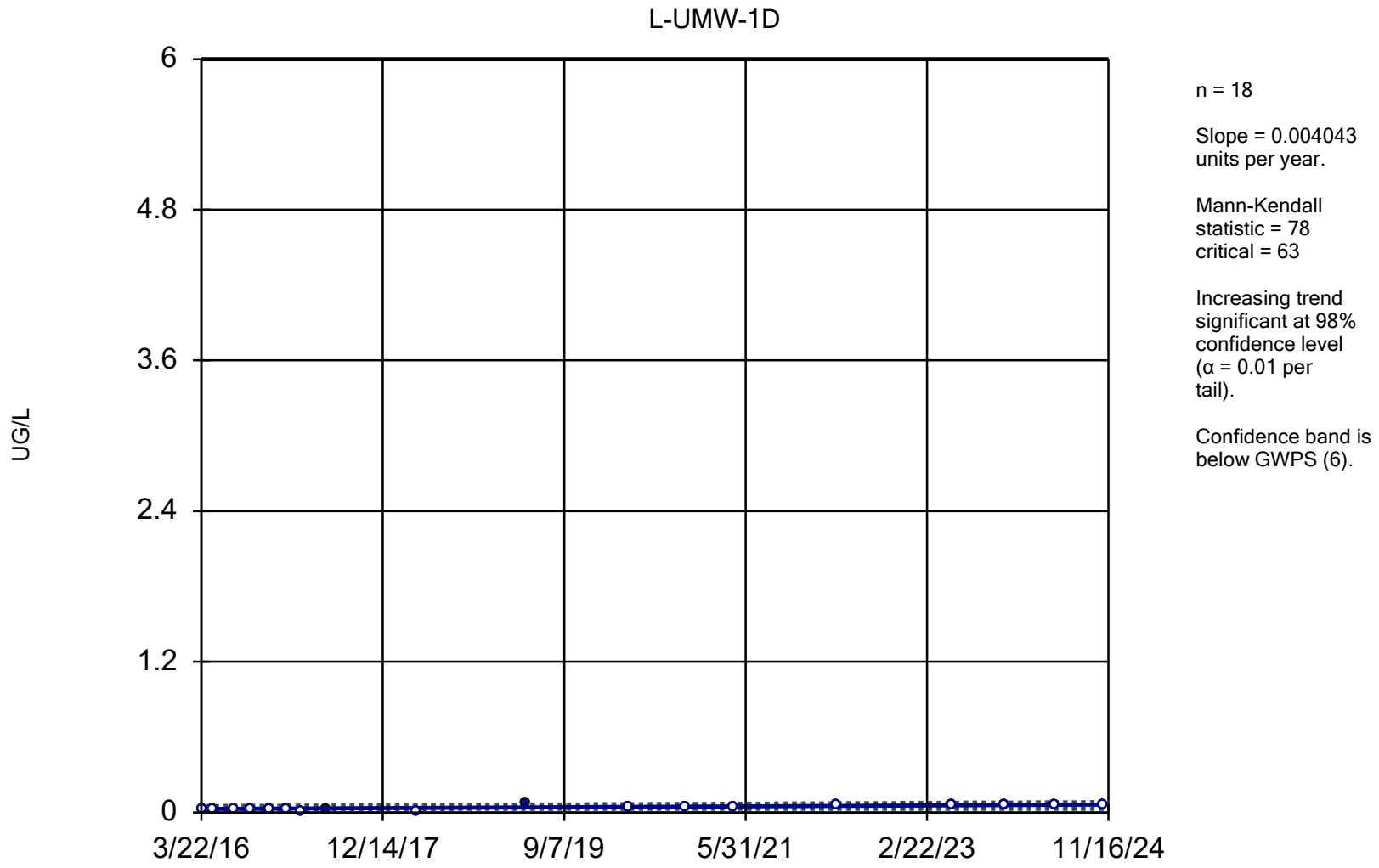
Labadie E.C. Client: Ameren Data: LEC DATA Printed 3/17/2025, 11:16 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
MOLYBDENUM, TOTAL (UG/L)	L-UMW-2D	41.96	35.03	100	No	23	0	No	0.01	Param.
MOLYBDENUM, TOTAL (UG/L)	**L-UMW-3D**	**214.6**	**167.7**	**100**	**Yes**	**24**	**0**	**No**	**0.01**	**Param.**
MOLYBDENUM, TOTAL (UG/L)	**L-UMW-4D**	**201.3**	**123.7**	**100**	**Yes**	**23**	**0**	**ln(x)**	**0.01**	**Param.**
MOLYBDENUM, TOTAL (UG/L)	**L-UMW-5D**	**584**	**122**	**100**	**Yes**	**24**	**0**	**No**	**0.01**	**NP (normality)**
MOLYBDENUM, TOTAL (UG/L)	**L-UMW-6D**	**589**	**533.9**	**100**	**Yes**	**23**	**0**	**No**	**0.01**	**Param.**
MOLYBDENUM, TOTAL (UG/L)	**L-UMW-7D**	**221.4**	**150**	**100**	**Yes**	**23**	**0**	**No**	**0.01**	**Param.**
MOLYBDENUM, TOTAL (UG/L)	L-UMW-8D	15.28	12.7	100	No	21	0	No	0.01	Param.
MOLYBDENUM, TOTAL (UG/L)	L-UMW-9D	1.498	0.8523	100	No	23	43.48	No	0.01	Param.
Radium [226 + 228] (PCI/L)	L-UMW-1D	2.122	1.703	5	No	22	18.18	No	0.01	Param.
Radium [226 + 228] (PCI/L)	L-UMW-2D	2.025	1.552	5	No	23	30.43	No	0.01	Param.
Radium [226 + 228] (PCI/L)	L-UMW-3D	1.248	0.704	5	No	24	75	No	0.01	NP (NDs)
Radium [226 + 228] (PCI/L)	L-UMW-4D	1.077	0.76	5	No	23	73.91	No	0.01	NP (NDs)
Radium [226 + 228] (PCI/L)	L-UMW-5D	0.956	0.588	5	No	21	100	No	0.01	NP (NDs)
Radium [226 + 228] (PCI/L)	L-UMW-6D	1.334	0.746	5	No	23	60.87	No	0.01	NP (NDs)
Radium [226 + 228] (PCI/L)	L-UMW-7D	1.574	0.7	5	No	23	73.91	No	0.01	NP (NDs)
Radium [226 + 228] (PCI/L)	L-UMW-8D	1.908	0.7715	5	No	23	56.52	No	0.01	NP (NDs)
Radium [226 + 228] (PCI/L)	L-UMW-9D	0.857	0.5835	5	No	23	91.3	No	0.01	NP (NDs)
SELENIUM, TOTAL (UG/L)	L-UMW-1D	0.11	0.043	50	No	20	95	No	0.01	NP (NDs)
SELENIUM, TOTAL (UG/L)	L-UMW-2D	0.11	0.043	50	No	20	95	No	0.01	NP (NDs)
SELENIUM, TOTAL (UG/L)	L-UMW-3D	0.19	0.09	50	No	21	57.14	No	0.01	NP (NDs)
SELENIUM, TOTAL (UG/L)	L-UMW-4D	0.19	0.043	50	No	20	95	No	0.01	NP (NDs)
SELENIUM, TOTAL (UG/L)	L-UMW-5D	0.15	0.09	50	No	20	60	No	0.01	NP (NDs)
SELENIUM, TOTAL (UG/L)	L-UMW-6D	0.2366	0.1864	50	No	20	30	No	0.01	Param.
SELENIUM, TOTAL (UG/L)	L-UMW-7D	0.091	0.089	50	No	20	85	No	0.01	NP (NDs)
SELENIUM, TOTAL (UG/L)	L-UMW-8D	0.09	0.087	50	No	20	95	No	0.01	NP (NDs)
SELENIUM, TOTAL (UG/L)	L-UMW-9D	0.09	0.043	50	No	20	100	No	0.01	NP (NDs)
THALLIUM, TOTAL (UG/L)	L-UMW-1D	0.25	0.047	2	No	17	88.24	No	0.01	NP (NDs)
THALLIUM, TOTAL (UG/L)	L-UMW-2D	0.25	0.0465	2	No	17	100	No	0.01	NP (NDs)
THALLIUM, TOTAL (UG/L)	L-UMW-3D	0.25	0.0465	2	No	18	100	No	0.01	NP (NDs)
THALLIUM, TOTAL (UG/L)	L-UMW-4D	0.25	0.0465	2	No	17	100	No	0.01	NP (NDs)
THALLIUM, TOTAL (UG/L)	L-UMW-5D	0.25	0.0465	2	No	17	100	No	0.01	NP (NDs)
THALLIUM, TOTAL (UG/L)	L-UMW-6D	0.25	0.047	2	No	17	94.12	No	0.01	NP (NDs)
THALLIUM, TOTAL (UG/L)	L-UMW-7D	0.25	0.0465	2	No	17	100	No	0.01	NP (NDs)
THALLIUM, TOTAL (UG/L)	L-UMW-8D	0.25	0.0465	2	No	17	100	No	0.01	NP (NDs)
THALLIUM, TOTAL (UG/L)	L-UMW-9D	0.25	0.0465	2	No	17	100	No	0.01	NP (NDs)

Appendix B
Sanitas Trending Confidence Bands Statistical Output

Sanitas™ v.10.0.24 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Sen's Slope and 95% Confidence Band



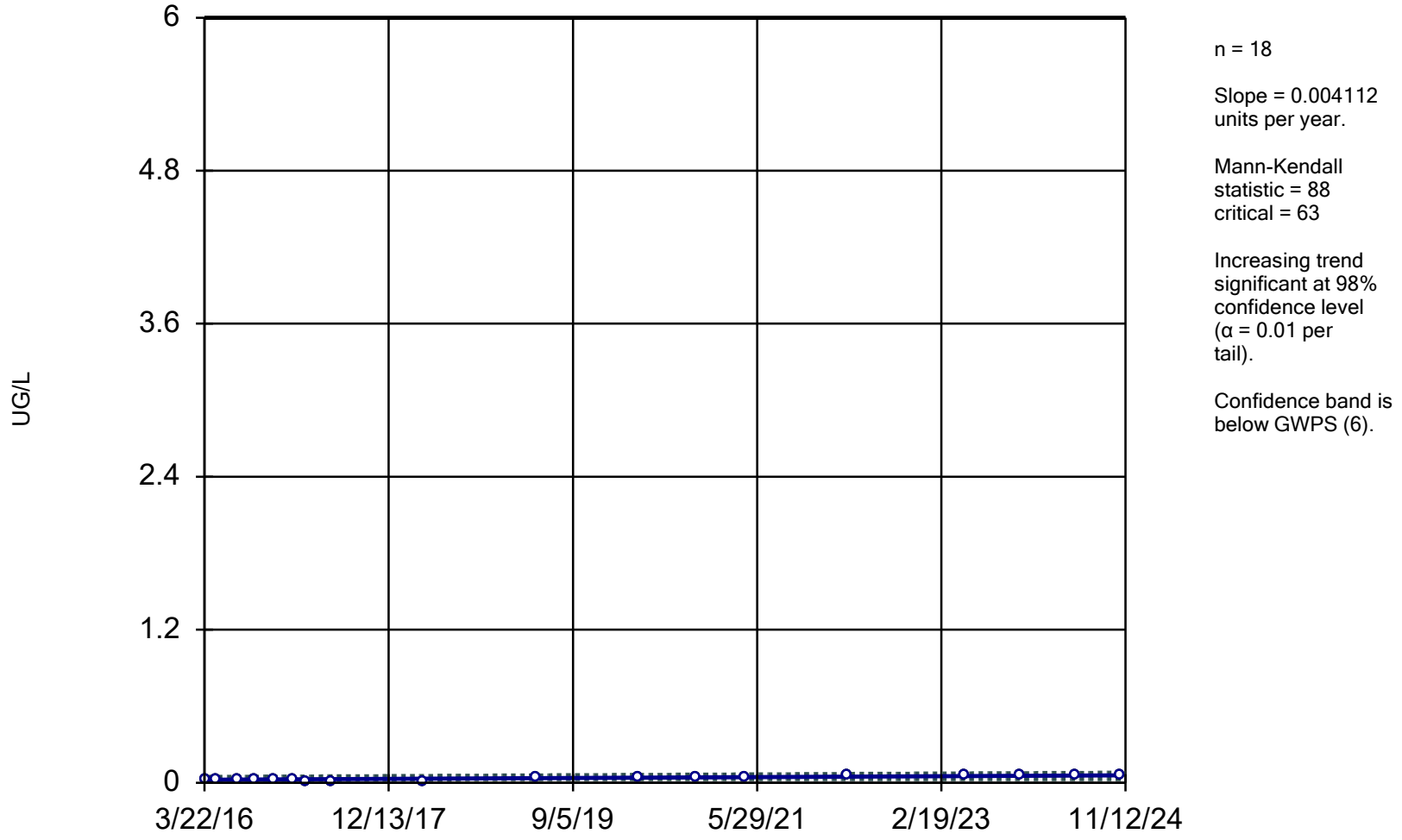
Constituent: ANTIMONY, TOTAL Analysis Run 3/17/2025 11:01 AM View: Assessment Monitoring

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.24 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Sen's Slope and 95% Confidence Band

L-UMW-2D



n = 18

Slope = 0.004112 units per year.

Mann-Kendall statistic = 88
critical = 63

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

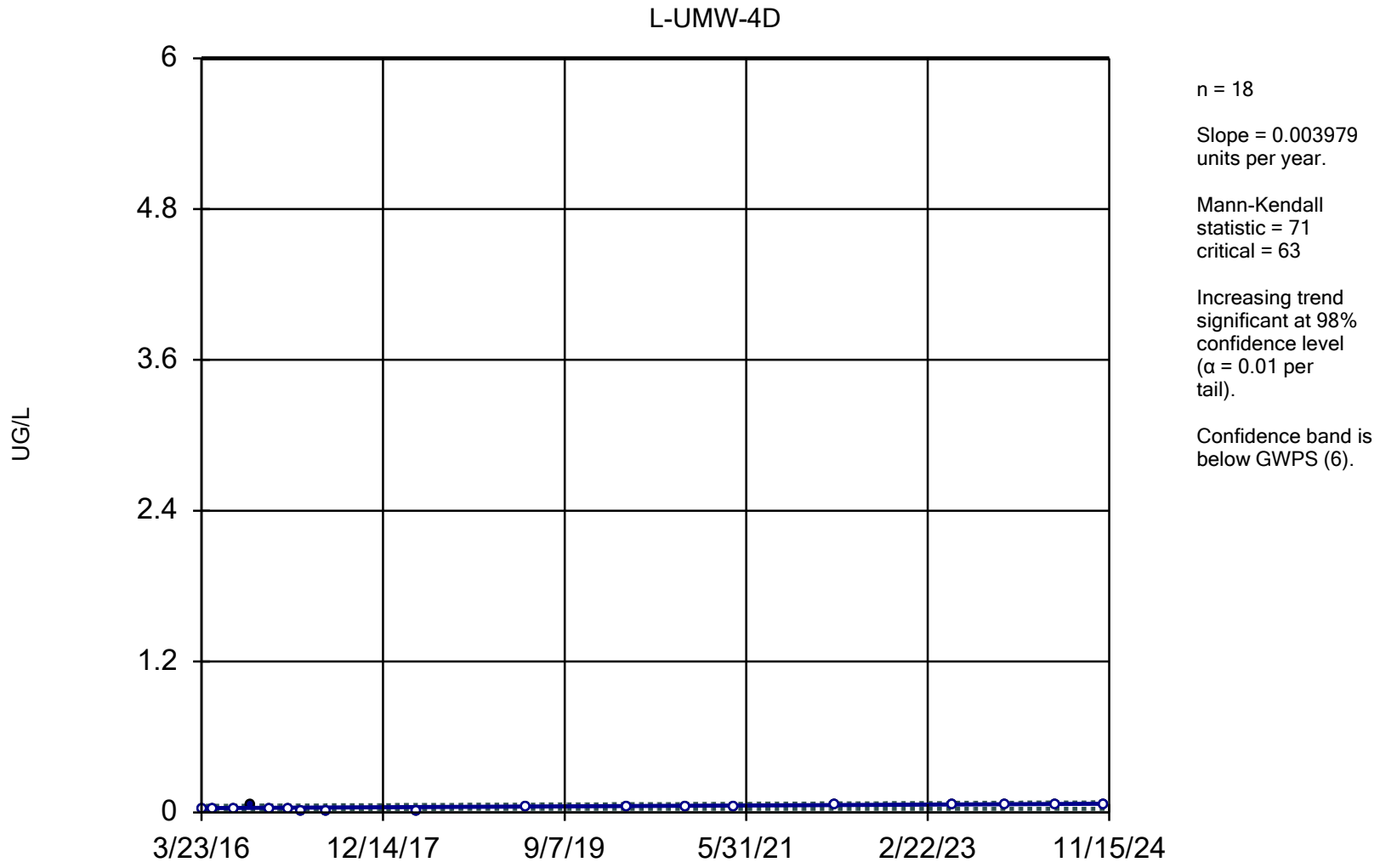
Confidence band is below GWPS (6).

Constituent: ANTIMONY, TOTAL Analysis Run 3/17/2025 11:01 AM View: Assessment Monitoring

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.24 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Sen's Slope and 95% Confidence Band



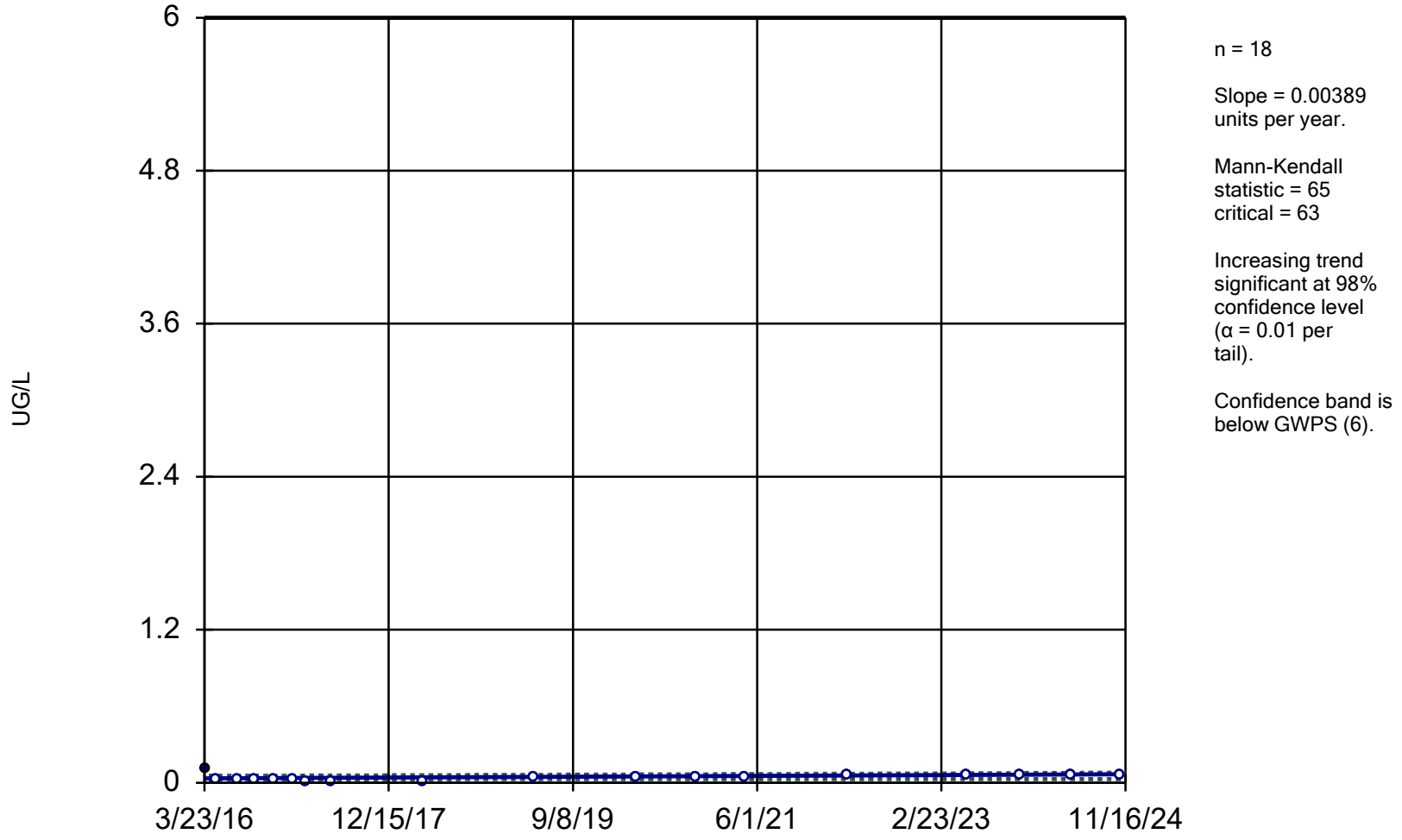
Constituent: ANTIMONY, TOTAL Analysis Run 3/17/2025 11:01 AM View: Assessment Monitoring

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.24 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Sen's Slope and 95% Confidence Band

L-UMW-6D



n = 18

Slope = 0.00389 units per year.

Mann-Kendall statistic = 65
critical = 63

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Confidence band is below GWPS (6).

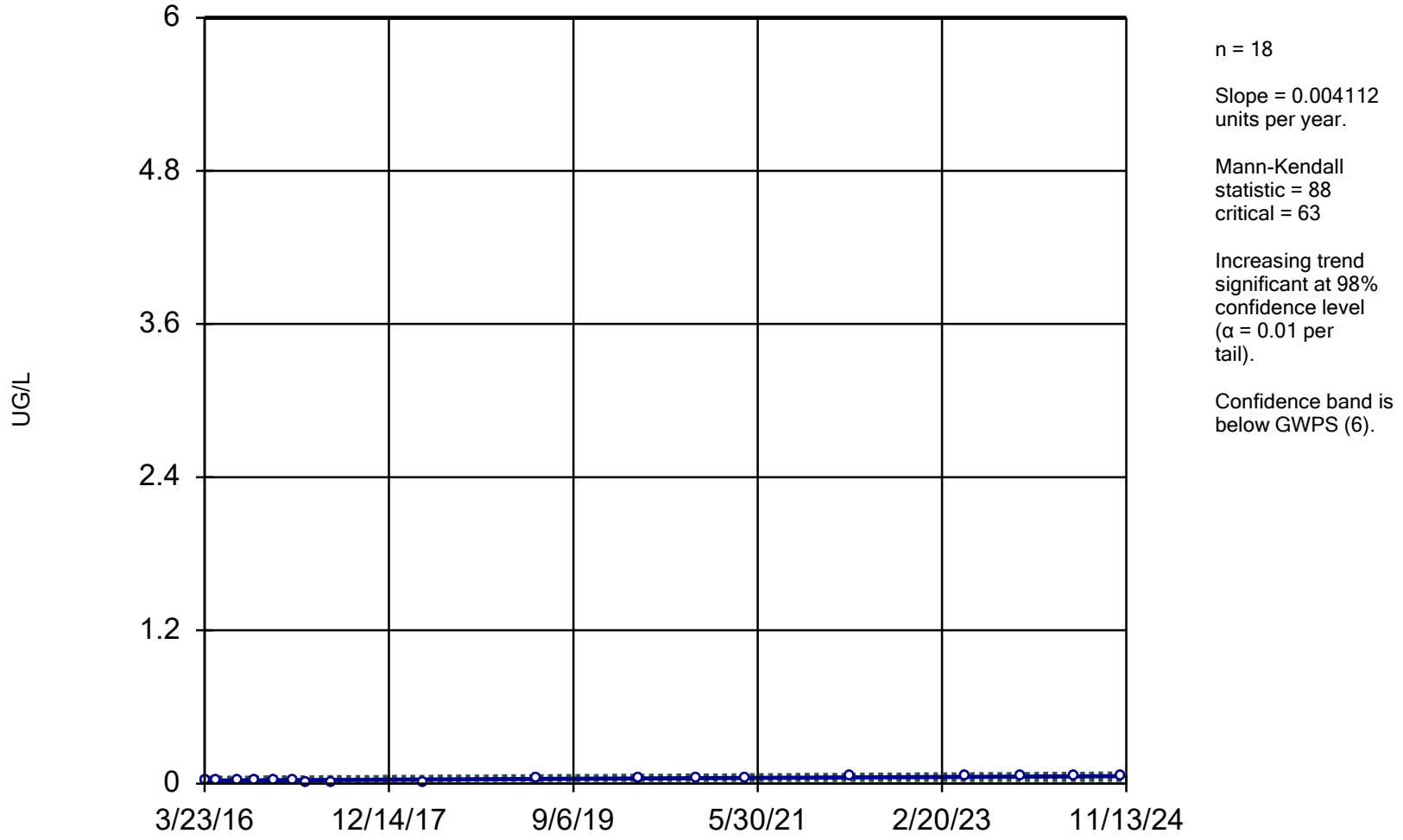
Constituent: ANTIMONY, TOTAL Analysis Run 3/17/2025 11:01 AM View: Assessment Monitoring

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.24 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Sen's Slope and 95% Confidence Band

L-UMW-7D



n = 18

Slope = 0.004112 units per year.

Mann-Kendall statistic = 88
critical = 63

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

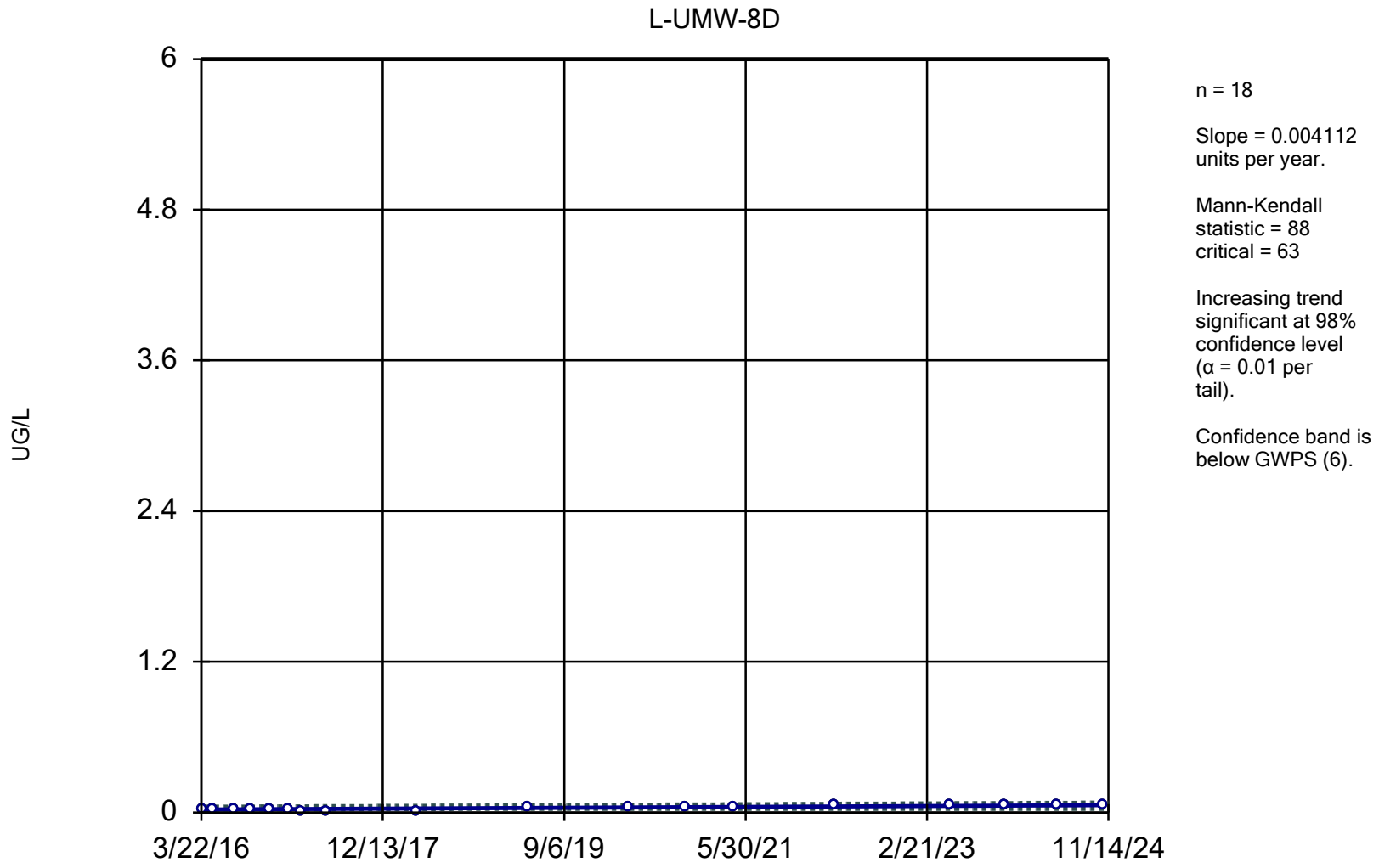
Confidence band is below GWPS (6).

Constituent: ANTIMONY, TOTAL Analysis Run 3/17/2025 11:01 AM View: Assessment Monitoring

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.24 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Sen's Slope and 95% Confidence Band

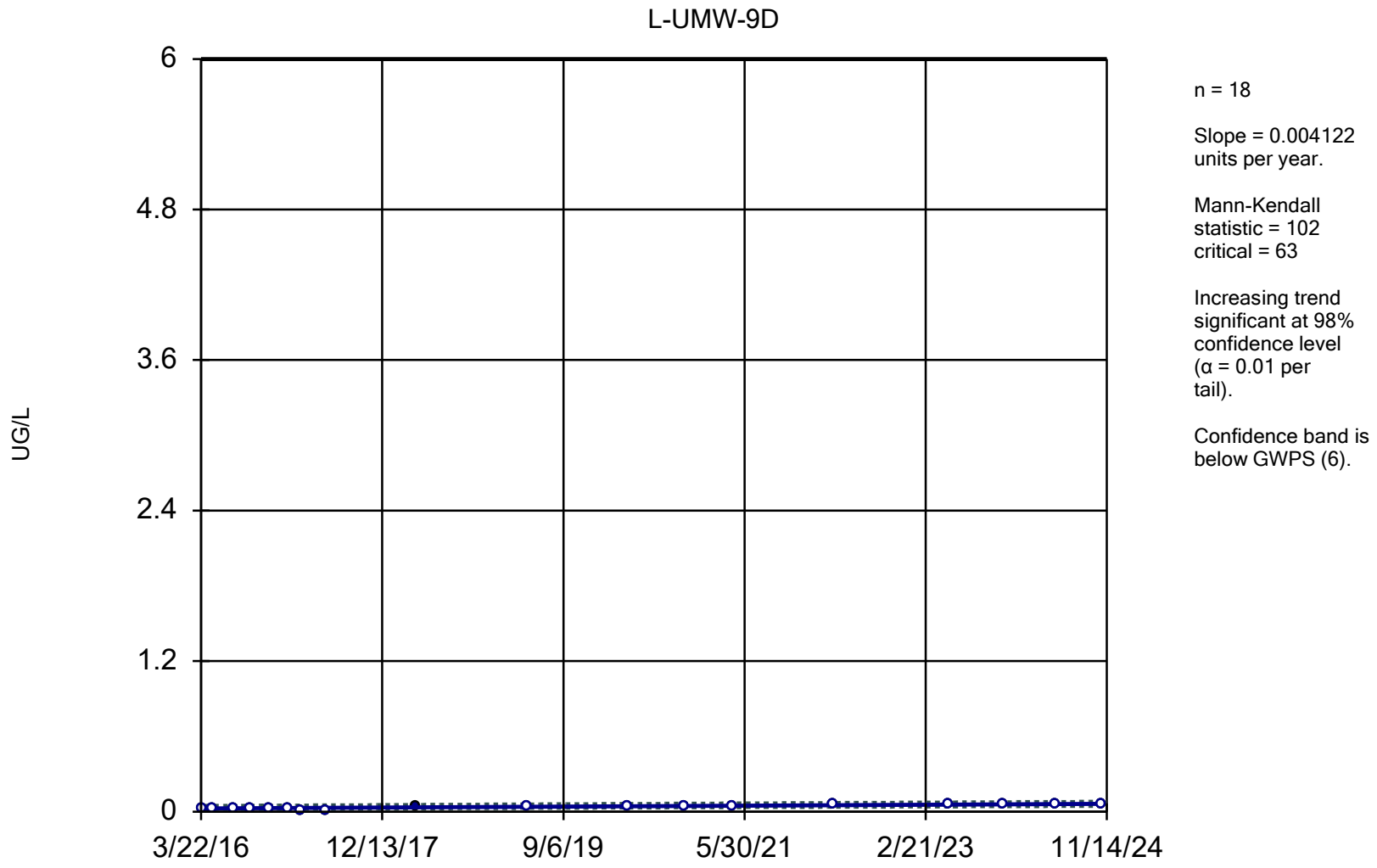


Constituent: ANTIMONY, TOTAL Analysis Run 3/17/2025 11:01 AM View: Assessment Monitoring

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.24 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Sen's Slope and 95% Confidence Band



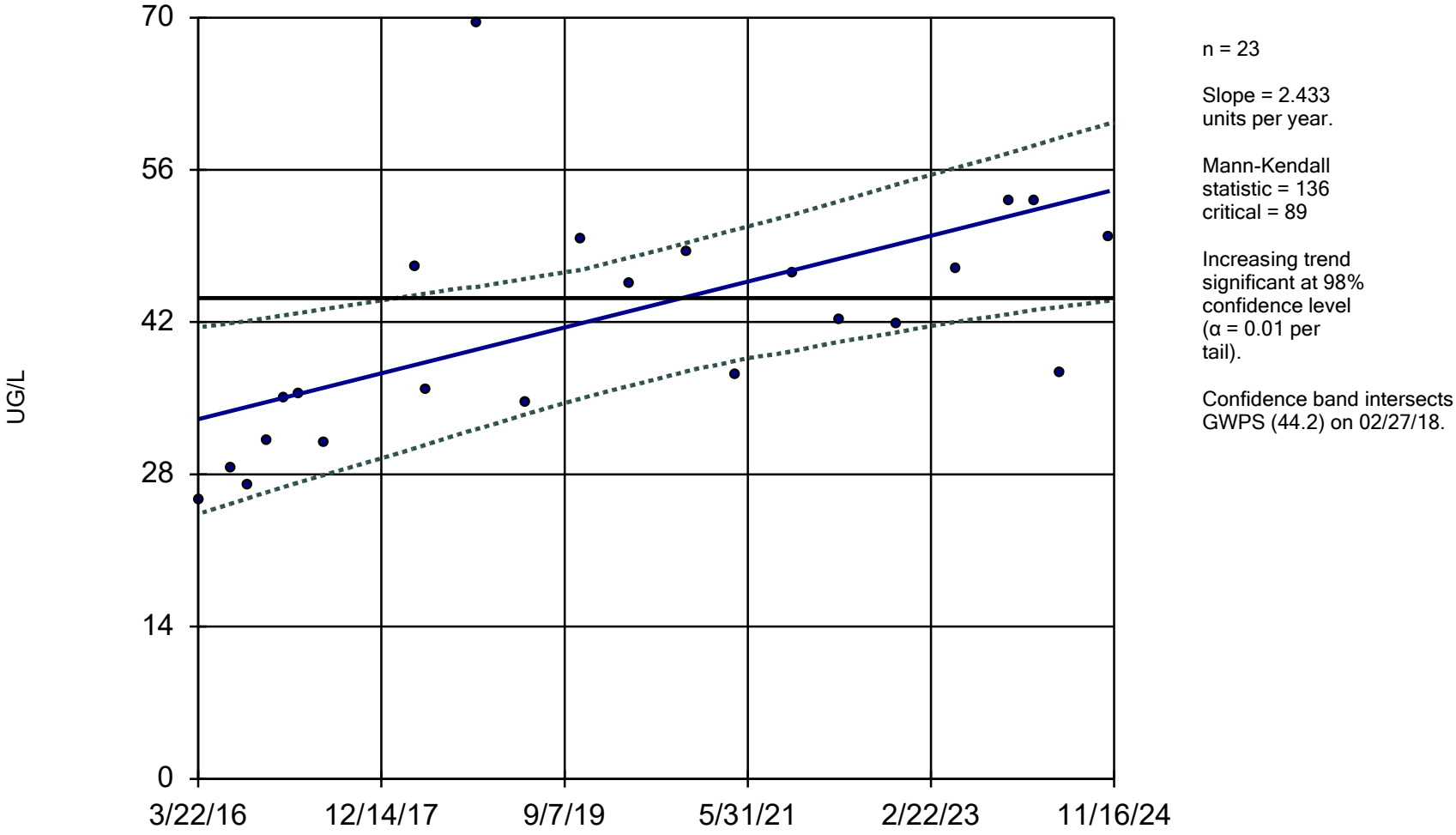
Constituent: ANTIMONY, TOTAL Analysis Run 3/17/2025 11:01 AM View: Assessment Monitoring

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.24 Software licensed to Rocksmith Geoengineering. UG

Sen's Slope and 95% Confidence Band

L-UMW-1D



n = 23

Slope = 2.433 units per year.

Mann-Kendall statistic = 136 critical = 89

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Confidence band intersects GWPS (44.2) on 02/27/18.

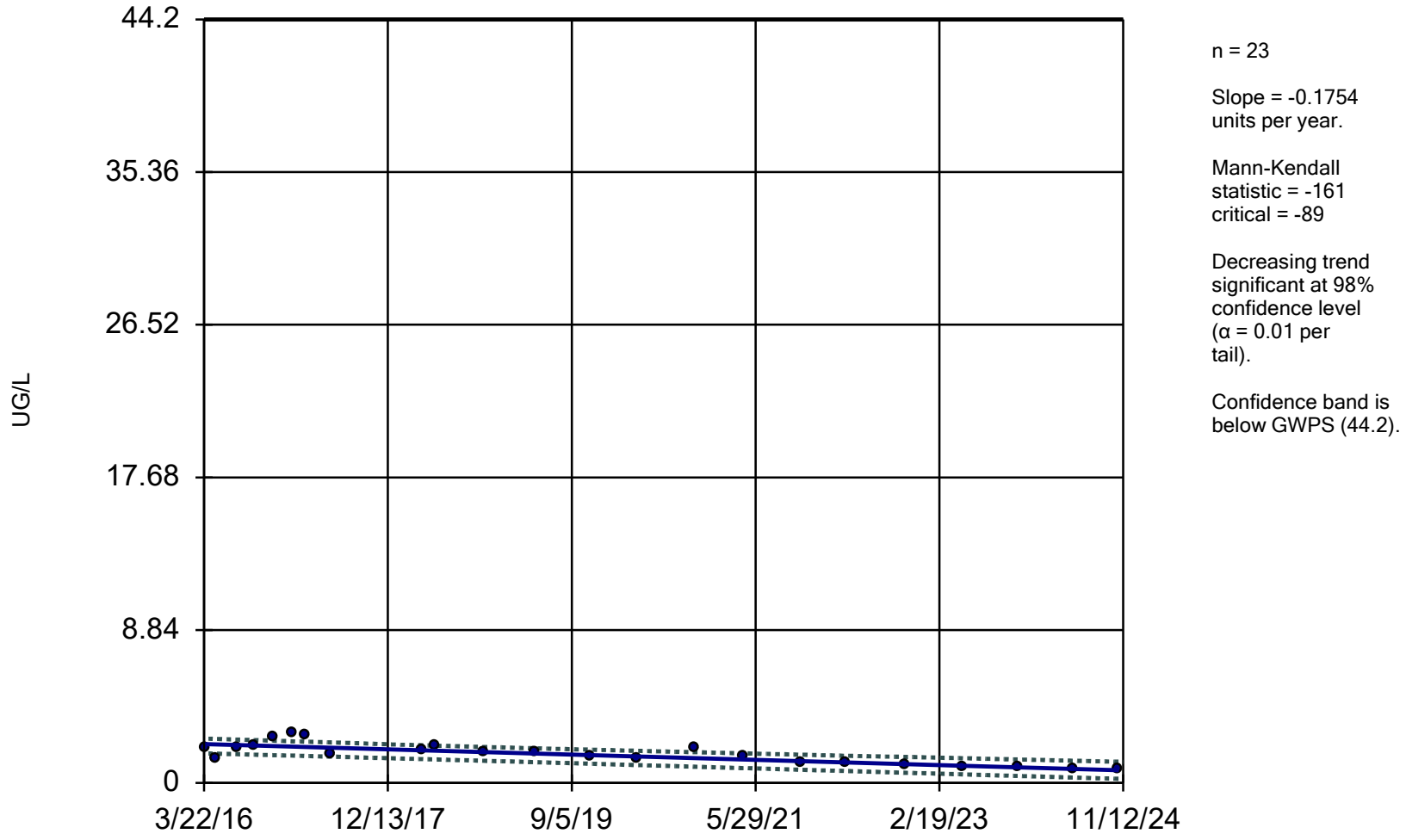
Constituent: ARSENIC, TOTAL Analysis Run 3/17/2025 11:01 AM View: Assessment Monitoring

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.24 Software licensed to Rocksmith Geoengineering. UG

Sen's Slope and 95% Confidence Band

L-UMW-2D



n = 23

Slope = -0.1754 units per year.

Mann-Kendall statistic = -161 critical = -89

Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

Confidence band is below GWPS (44.2).

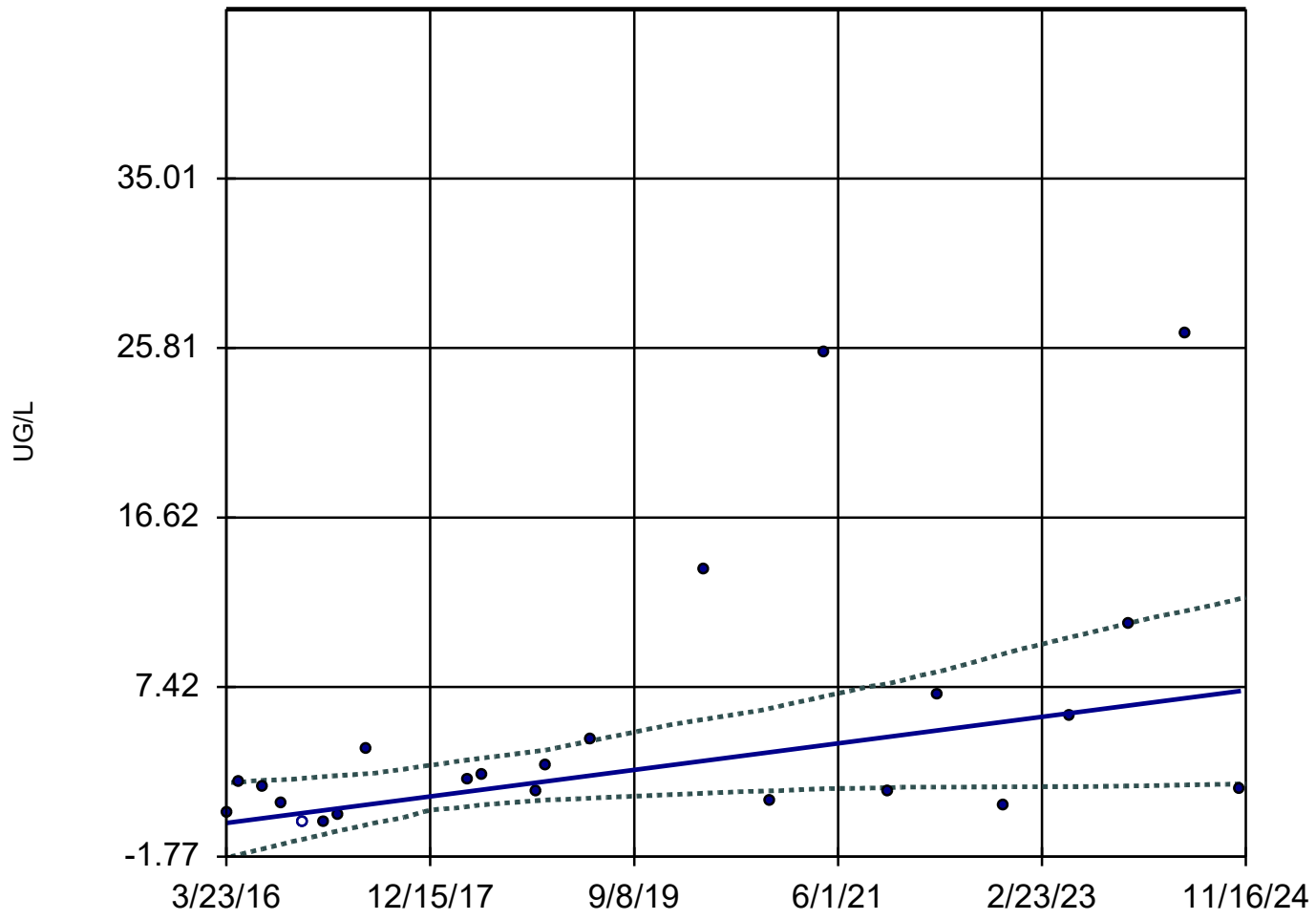
Constituent: ARSENIC, TOTAL Analysis Run 3/17/2025 11:01 AM View: Assessment Monitoring

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.24 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Sen's Slope and 95% Confidence Band

L-UMW-3D



n = 23

Slope = 0.8307 units per year.

Mann-Kendall statistic = 103 critical = 89

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Confidence band is below GWPS (44.2).

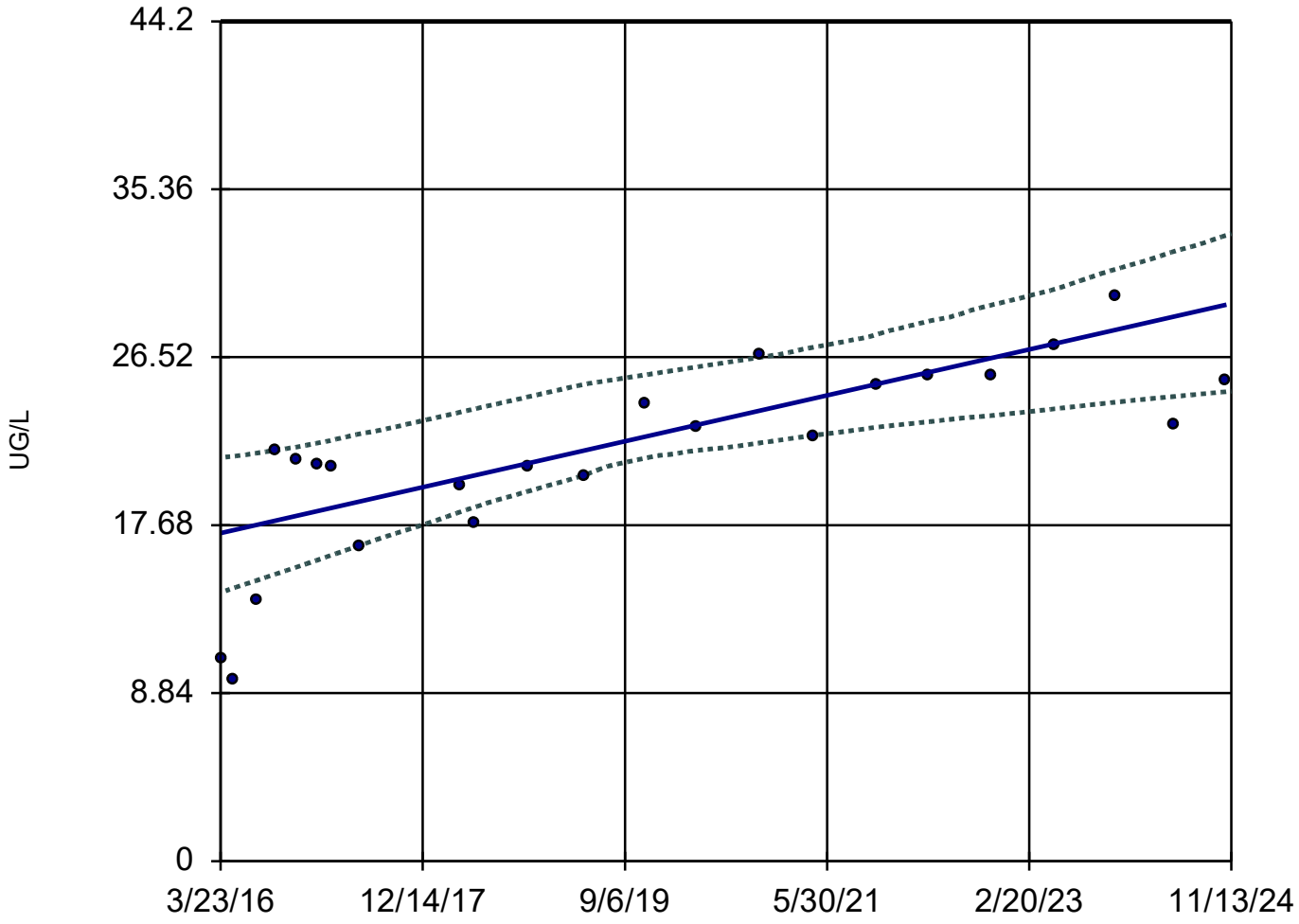
Constituent: ARSENIC, TOTAL Analysis Run 3/17/2025 11:01 AM View: Assessment Monitoring

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.24 Software licensed to Rocksmith Geoengineering. UG

Sen's Slope and 95% Confidence Band

L-UMW-7D



n = 23

Slope = 1.396 units per year.

Mann-Kendall statistic = 158 critical = 89

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Confidence band is below GWPS (44.2).

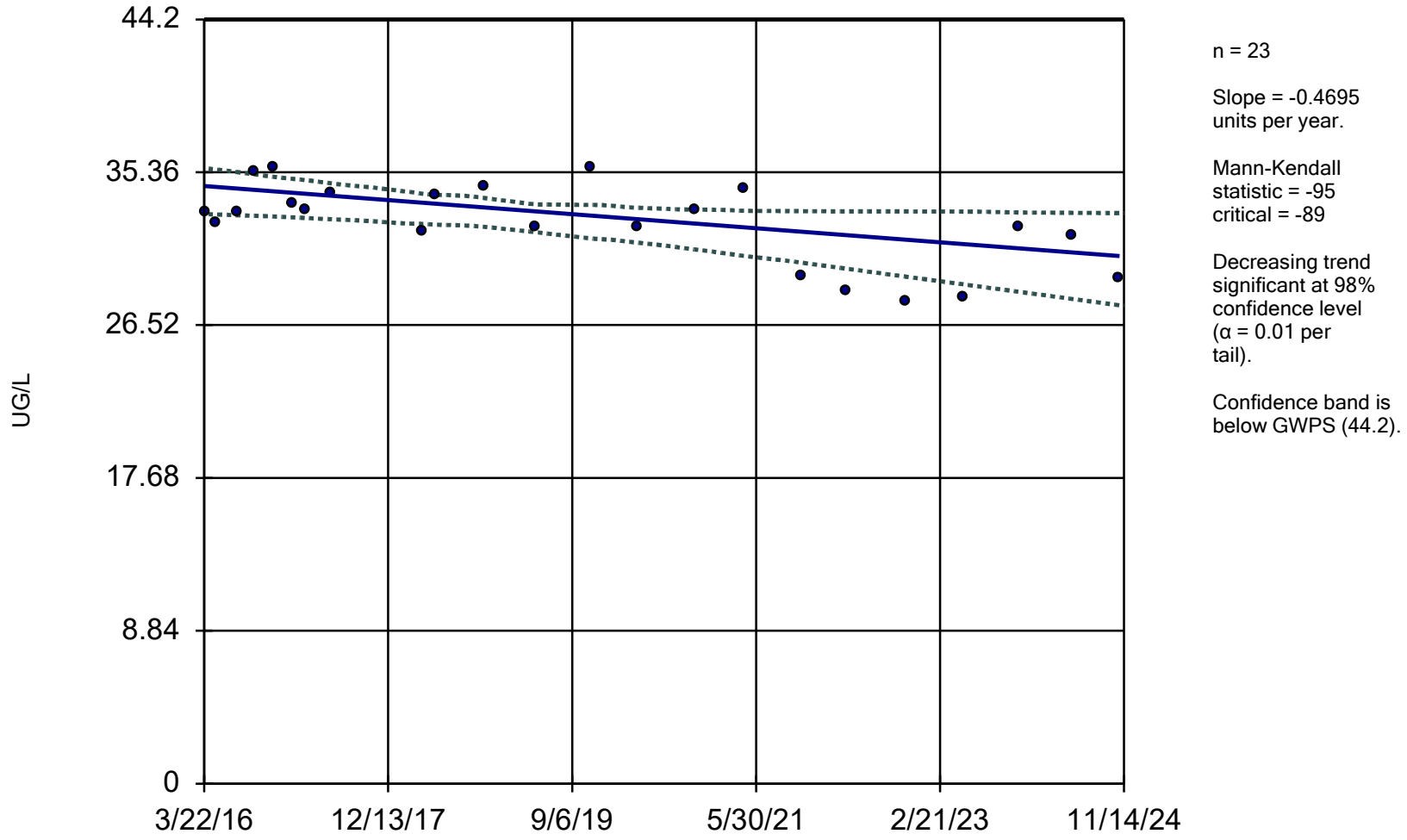
Constituent: ARSENIC, TOTAL Analysis Run 3/17/2025 11:01 AM View: Assessment Monitoring

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.24 Software licensed to Rocksmith Geoengineering. UG

Sen's Slope and 95% Confidence Band

L-UMW-9D



n = 23

Slope = -0.4695 units per year.

Mann-Kendall statistic = -95
critical = -89

Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

Confidence band is below GWPS (44.2).

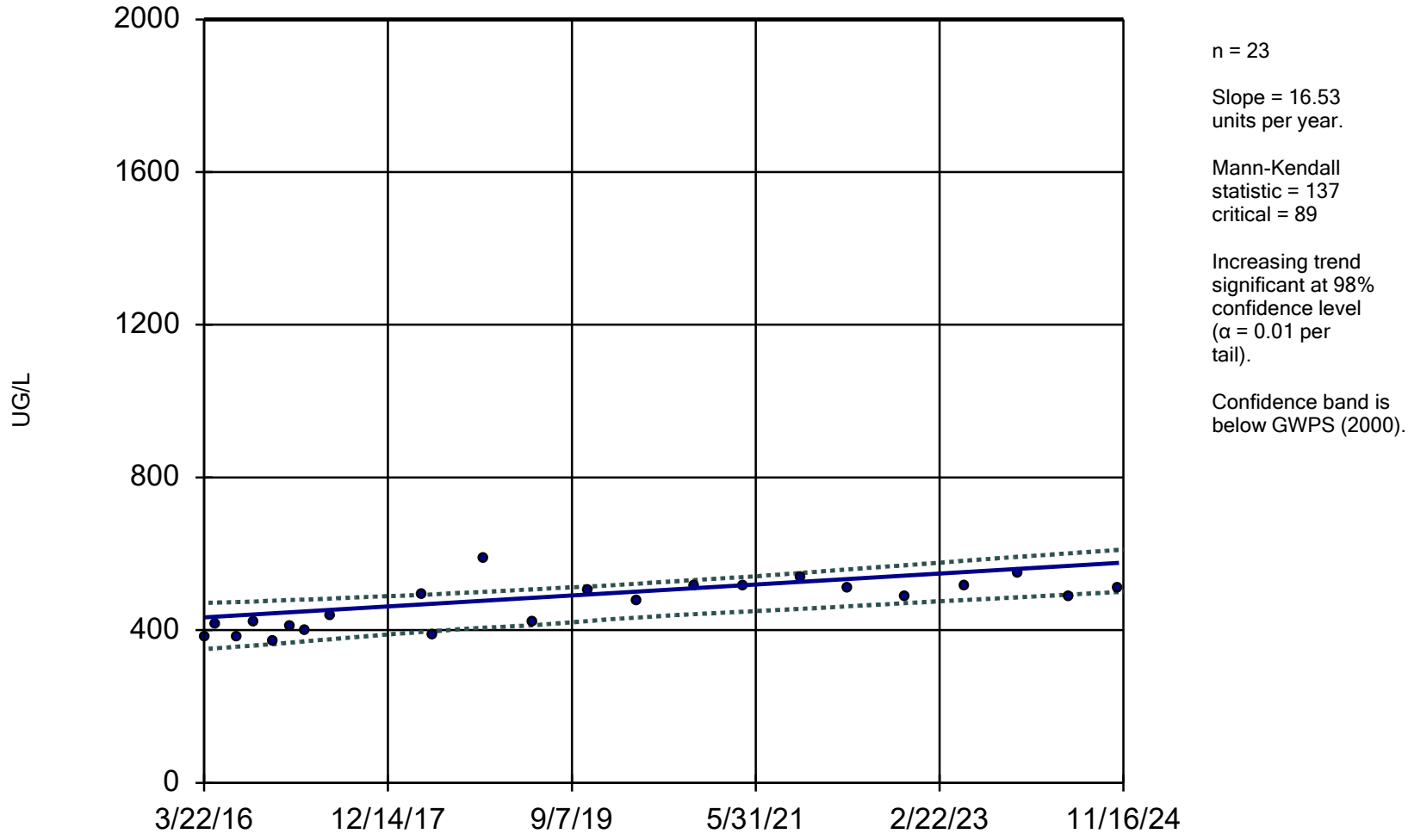
Constituent: ARSENIC, TOTAL Analysis Run 3/17/2025 11:01 AM View: Assessment Monitoring

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.24 Software licensed to Rocksmith Geoengineering. UG

Sen's Slope and 95% Confidence Band

L-UMW-1D



n = 23

Slope = 16.53 units per year.

Mann-Kendall statistic = 137 critical = 89

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Confidence band is below GWPS (2000).

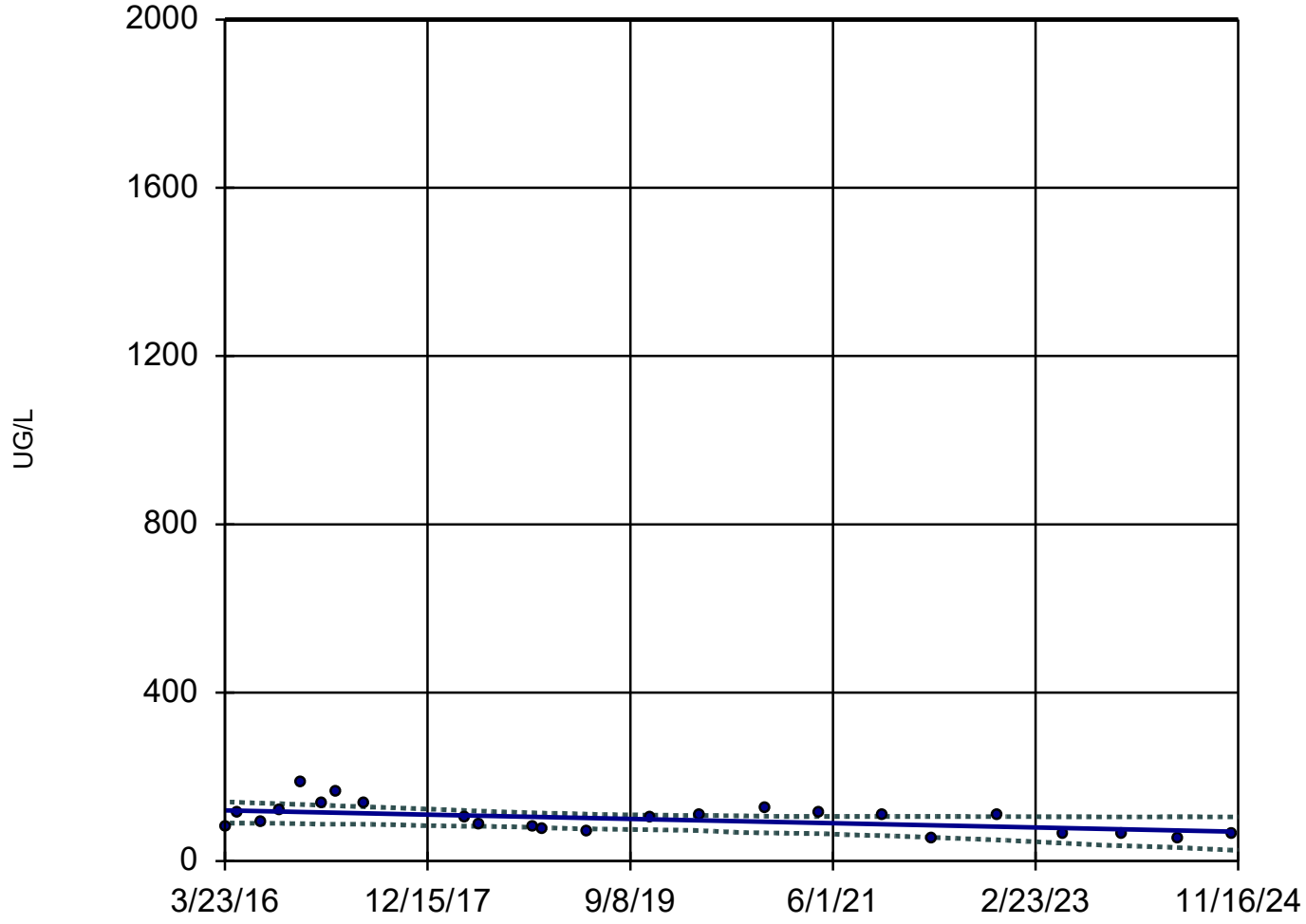
Constituent: BARIUM, TOTAL Analysis Run 3/17/2025 11:02 AM View: Assessment Monitoring

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.24 Software licensed to Rocksmith Geoengineering. UG

Sen's Slope and 95% Confidence Band

L-UMW-3D



n = 24

Slope = -5.911 units per year.

Mann-Kendall statistic = -103 critical = -95

Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

Confidence band is below GWPS (2000).

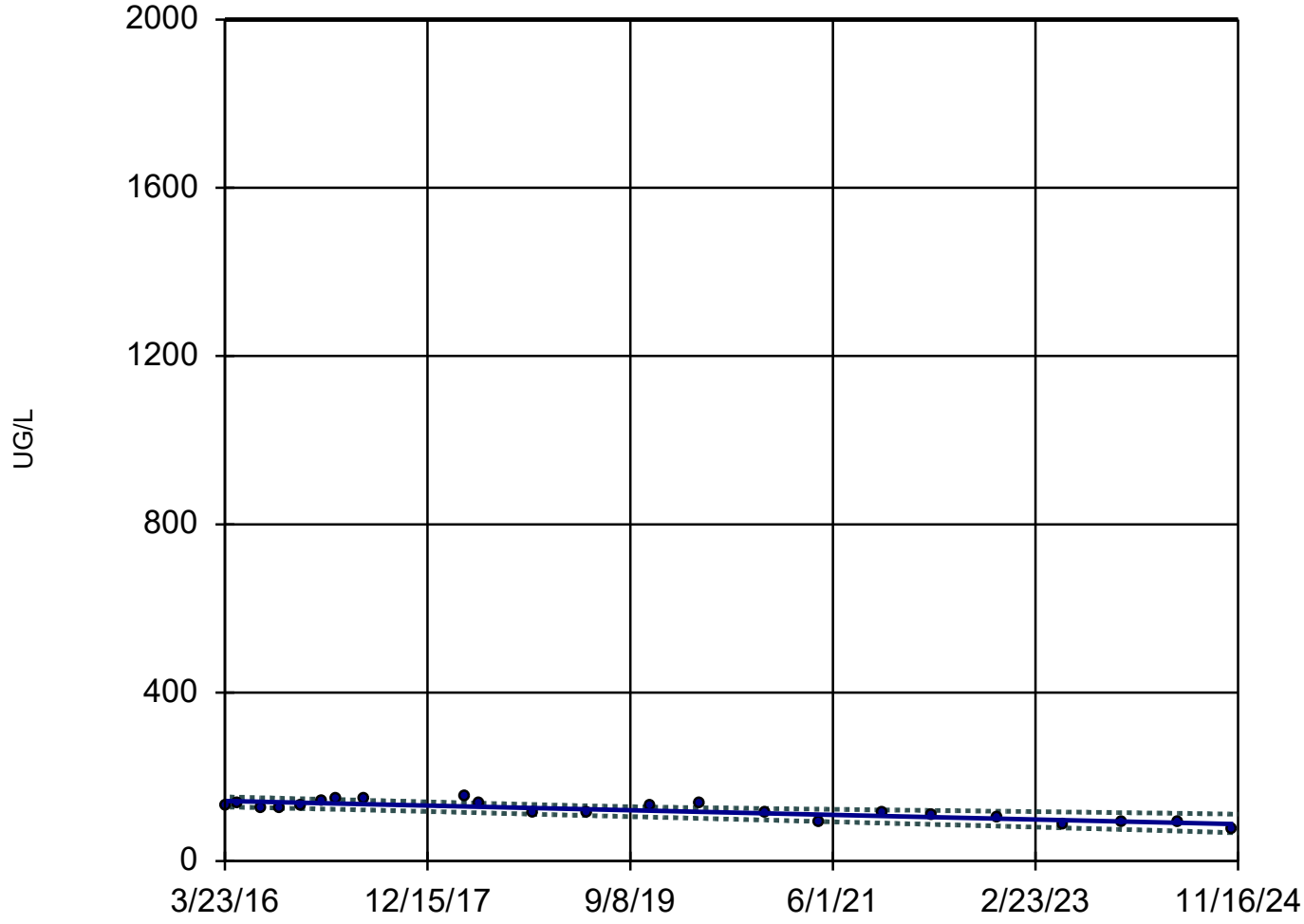
Constituent: BARIUM, TOTAL Analysis Run 3/17/2025 11:02 AM View: Assessment Monitoring

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.24 Software licensed to Rocksmith Geoengineering. UG

Sen's Slope and 95% Confidence Band

L-UMW-6D



n = 23

Slope = -6.323 units per year.

Mann-Kendall statistic = -141 critical = -89

Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

Confidence band is below GWPS (2000).

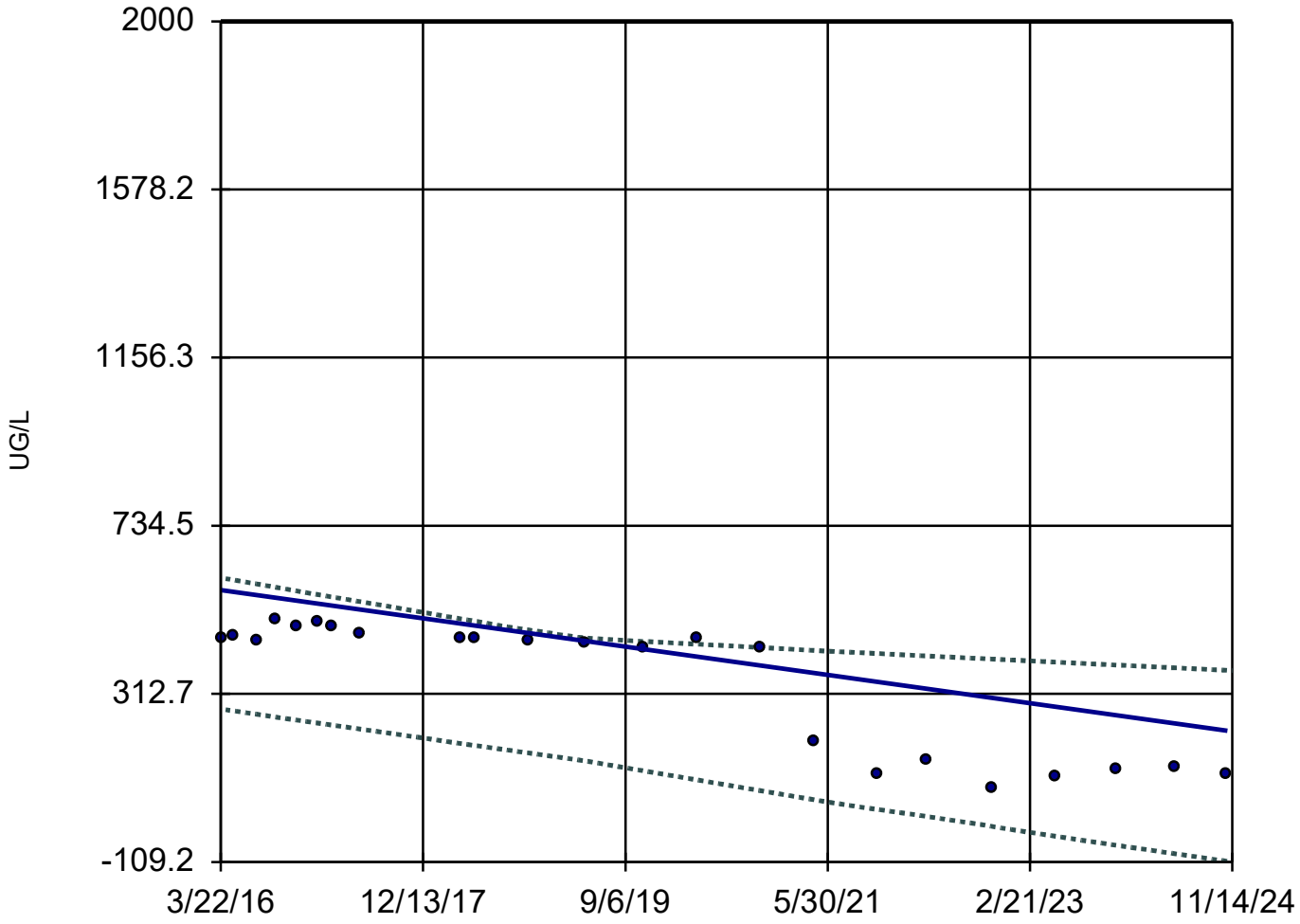
Constituent: BARIUM, TOTAL Analysis Run 3/17/2025 11:02 AM View: Assessment Monitoring

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.24 Software licensed to Rocksmith Geoengineering. UG

Sen's Slope and 95% Confidence Band

L-UMW-8D



n = 23

Slope = -40.96 units per year.

Mann-Kendall statistic = -178 critical = -89

Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

Confidence band is below GWPS (2000).

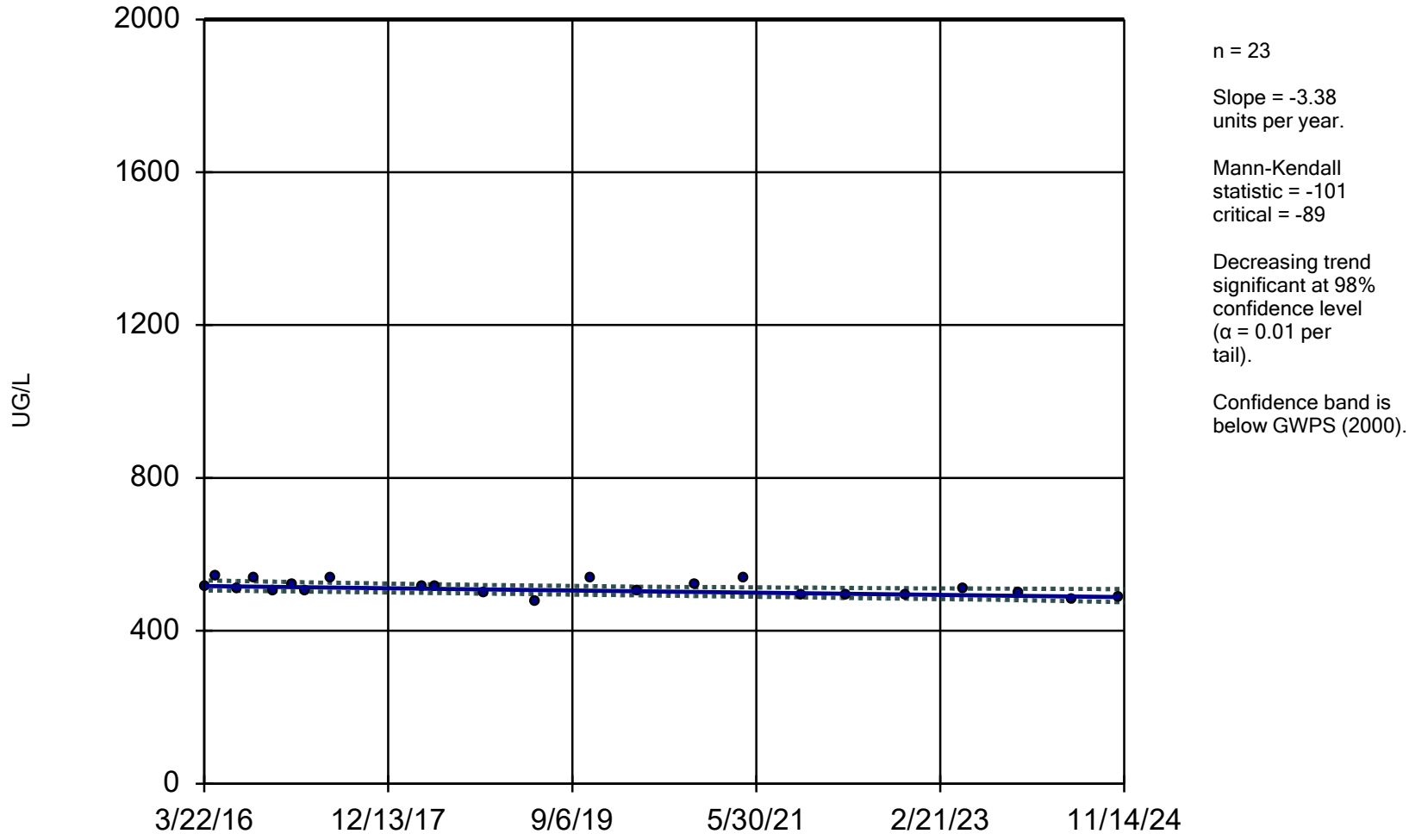
Constituent: BARIUM, TOTAL Analysis Run 3/17/2025 11:02 AM View: Assessment Monitoring

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.24 Software licensed to Rocksmith Geoengineering. UG

Sen's Slope and 95% Confidence Band

L-UMW-9D



n = 23

Slope = -3.38 units per year.

Mann-Kendall statistic = -101 critical = -89

Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

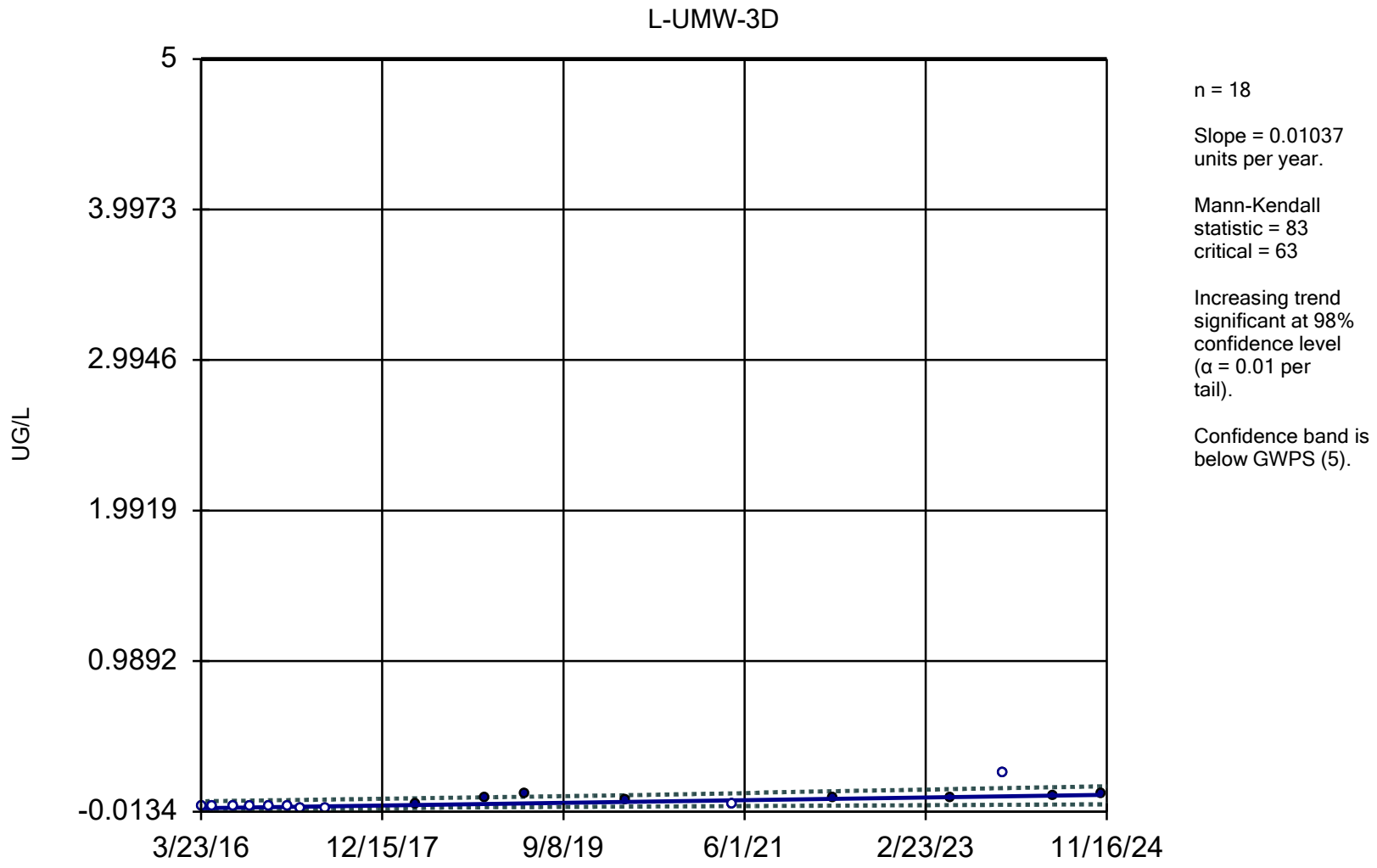
Confidence band is below GWPS (2000).

Constituent: BARIUM, TOTAL Analysis Run 3/17/2025 11:02 AM View: Assessment Monitoring

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.24 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Sen's Slope and 95% Confidence Band



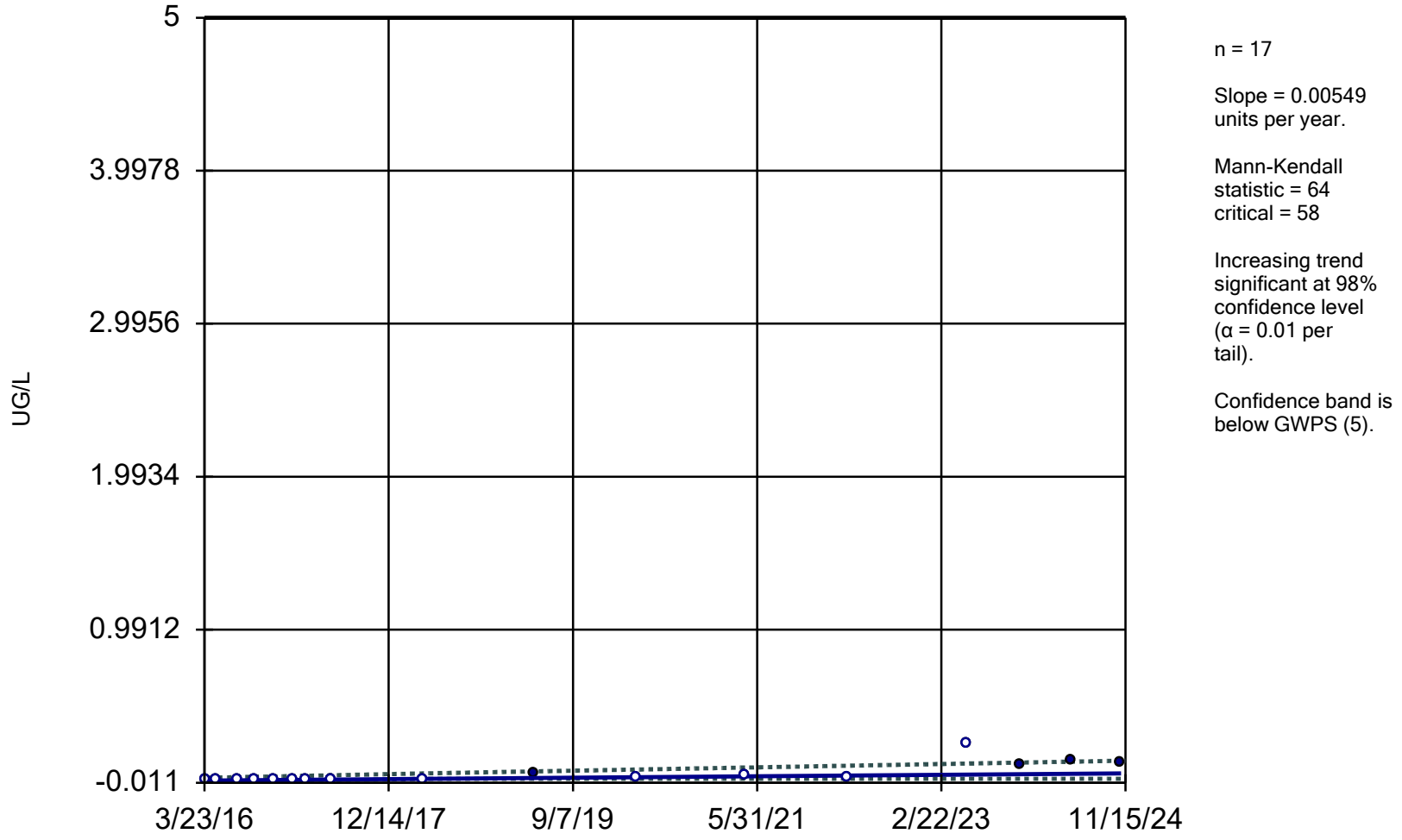
Constituent: CADMIUM, TOTAL Analysis Run 3/17/2025 11:02 AM View: Assessment Monitoring

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.24 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Sen's Slope and 95% Confidence Band

L-UMW-4D



n = 17

Slope = 0.00549 units per year.

Mann-Kendall statistic = 64
critical = 58

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

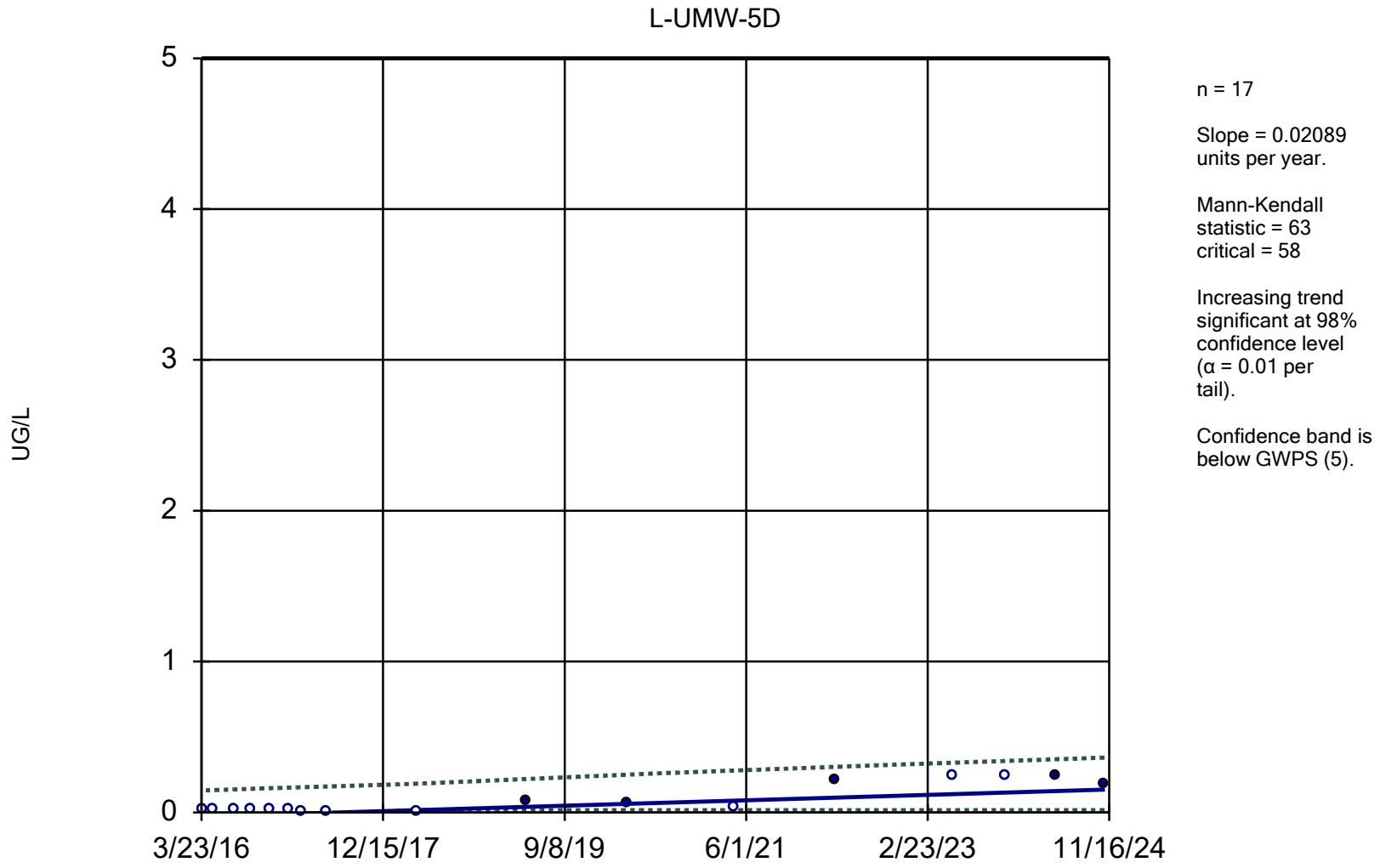
Confidence band is below GWPS (5).

Constituent: CADMIUM, TOTAL Analysis Run 3/17/2025 11:02 AM View: Assessment Monitoring

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.24 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Sen's Slope and 95% Confidence Band

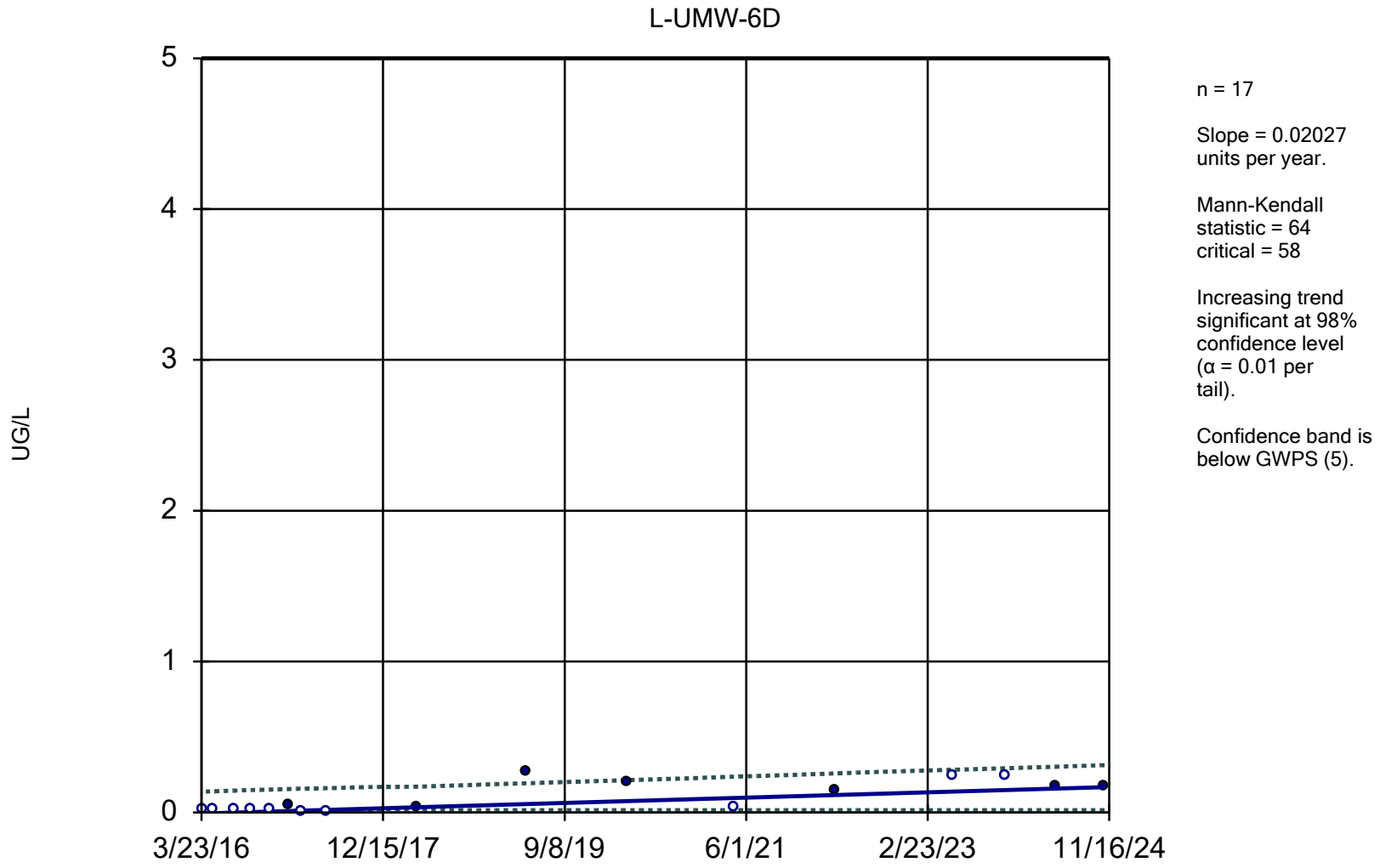


Constituent: CADMIUM, TOTAL Analysis Run 3/17/2025 11:02 AM View: Assessment Monitoring

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.24 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Sen's Slope and 95% Confidence Band



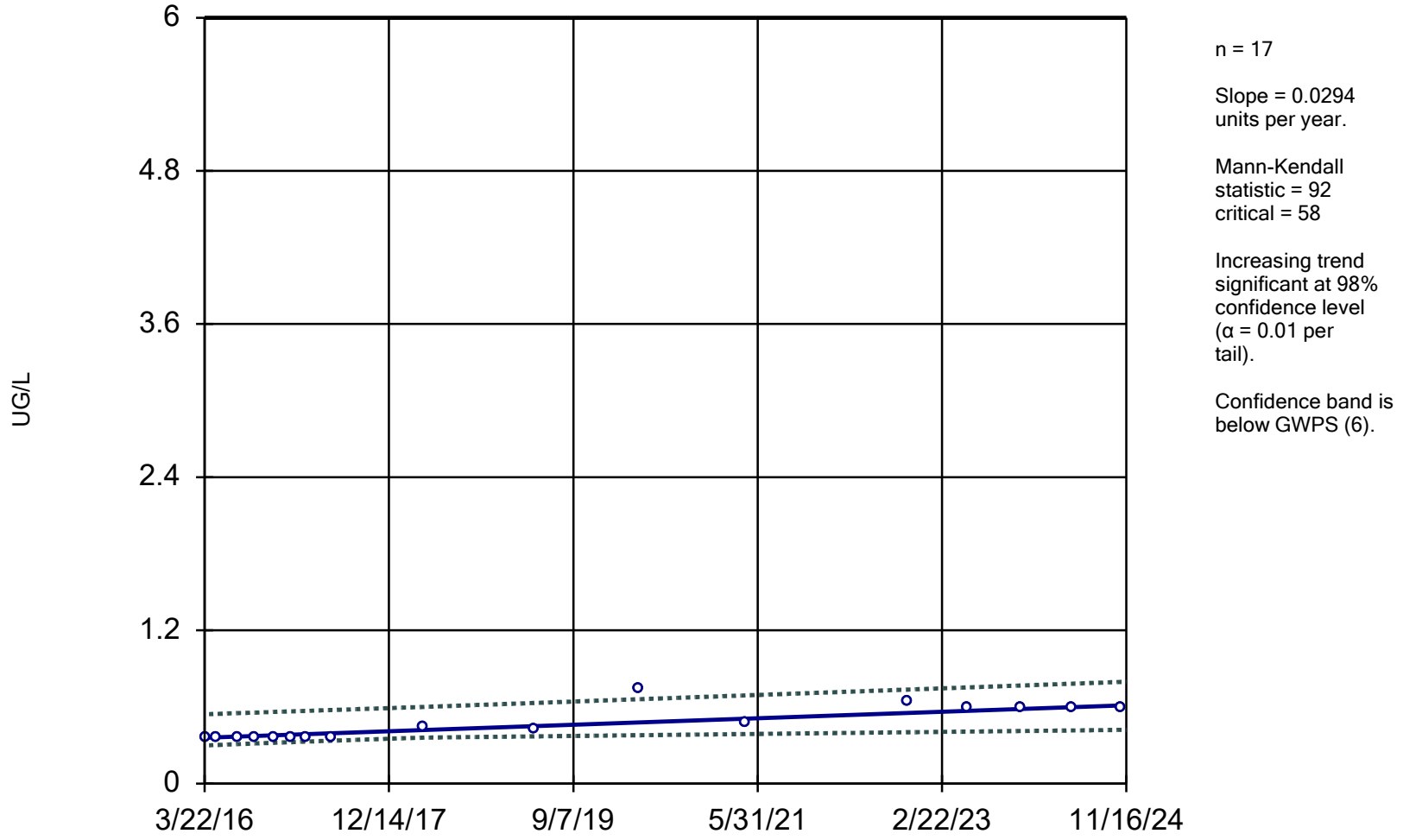
Constituent: CADMIUM, TOTAL Analysis Run 3/17/2025 11:02 AM View: Assessment Monitoring

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.24 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Sen's Slope and 95% Confidence Band

L-UMW-1D



n = 17

Slope = 0.0294 units per year.

Mann-Kendall statistic = 92
critical = 58

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Confidence band is below GWPS (6).

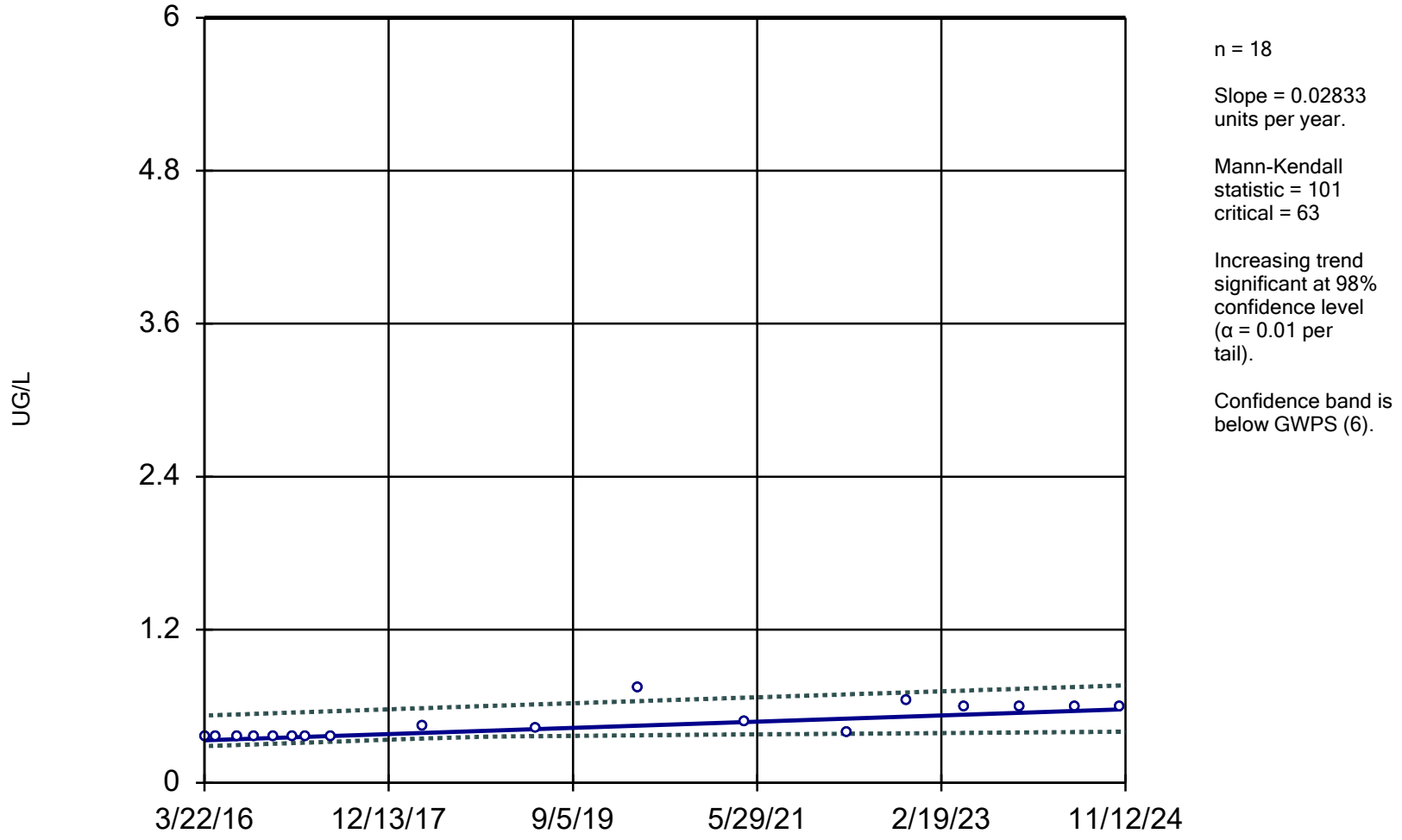
Constituent: COBALT, TOTAL Analysis Run 3/17/2025 11:02 AM View: Assessment Monitoring

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.24 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Sen's Slope and 95% Confidence Band

L-UMW-2D



n = 18

Slope = 0.02833 units per year.

Mann-Kendall statistic = 101
critical = 63

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Confidence band is below GWPS (6).

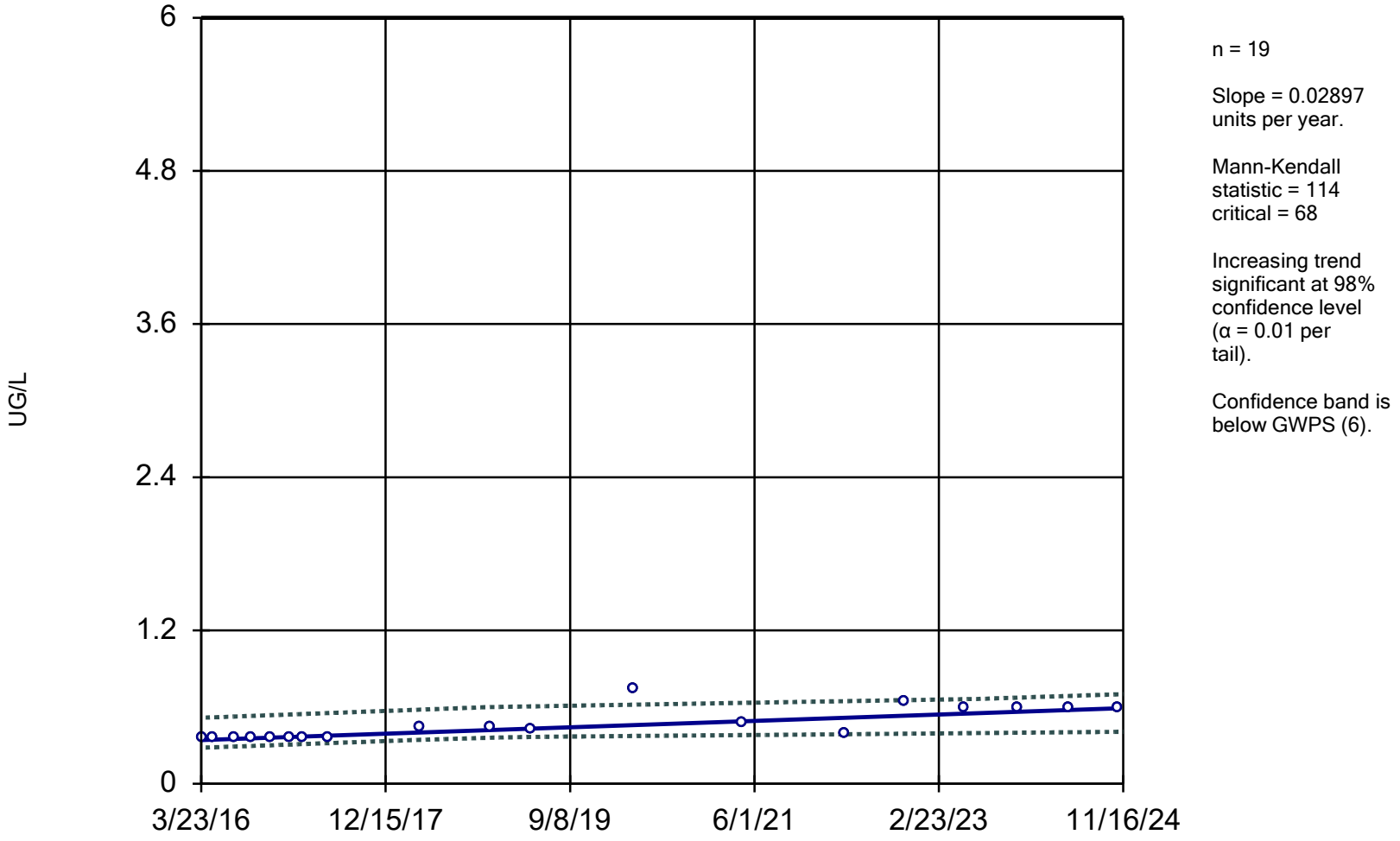
Constituent: COBALT, TOTAL Analysis Run 3/17/2025 11:02 AM View: Assessment Monitoring

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.24 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Sen's Slope and 95% Confidence Band

L-UMW-3D



n = 19

Slope = 0.02897 units per year.

Mann-Kendall statistic = 114
critical = 68

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

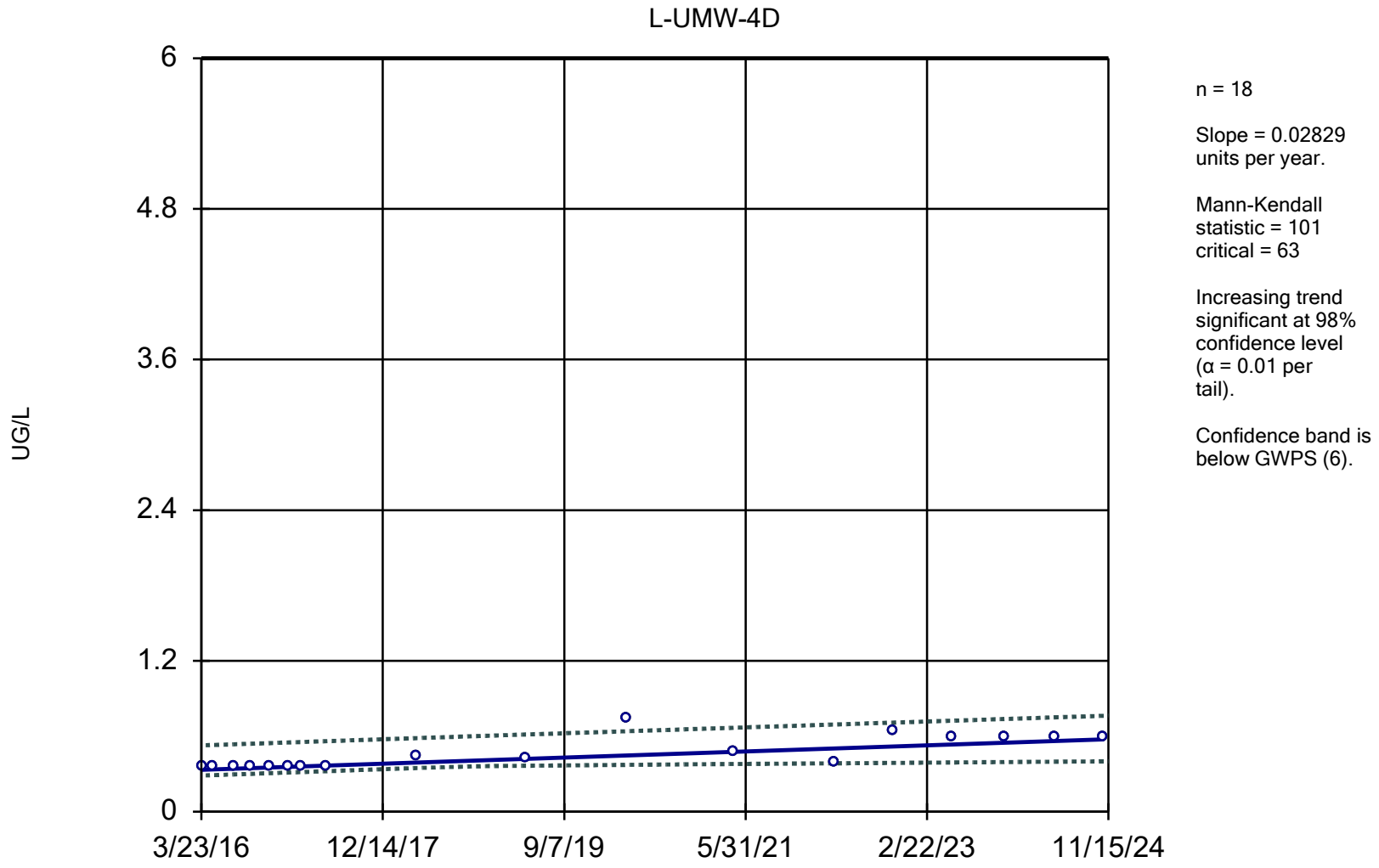
Confidence band is below GWPS (6).

Constituent: COBALT, TOTAL Analysis Run 3/17/2025 11:02 AM View: Assessment Monitoring

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.24 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Sen's Slope and 95% Confidence Band

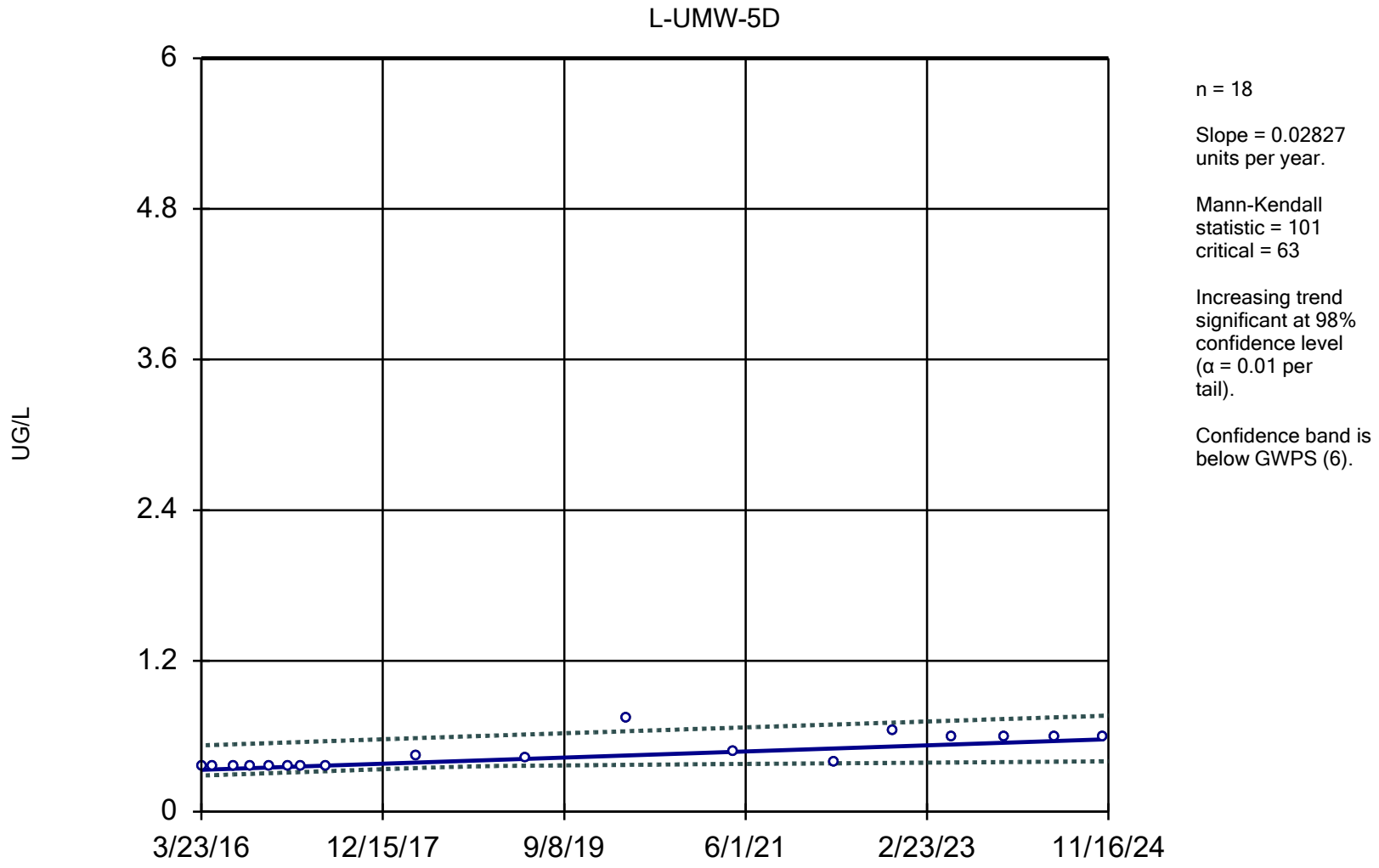


Constituent: COBALT, TOTAL Analysis Run 3/17/2025 11:02 AM View: Assessment Monitoring

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.24 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Sen's Slope and 95% Confidence Band

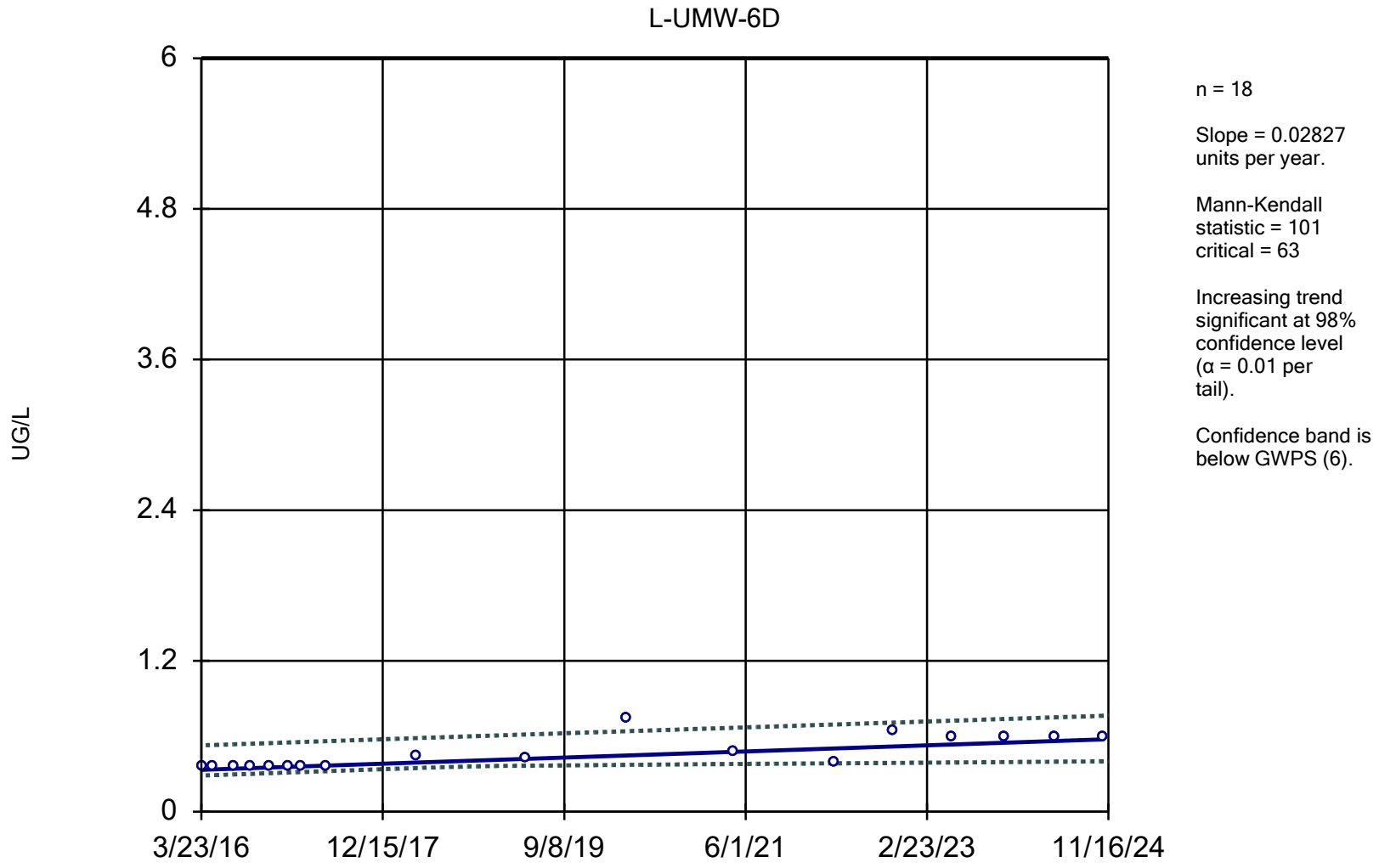


Constituent: COBALT, TOTAL Analysis Run 3/17/2025 11:02 AM View: Assessment Monitoring

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.24 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Sen's Slope and 95% Confidence Band



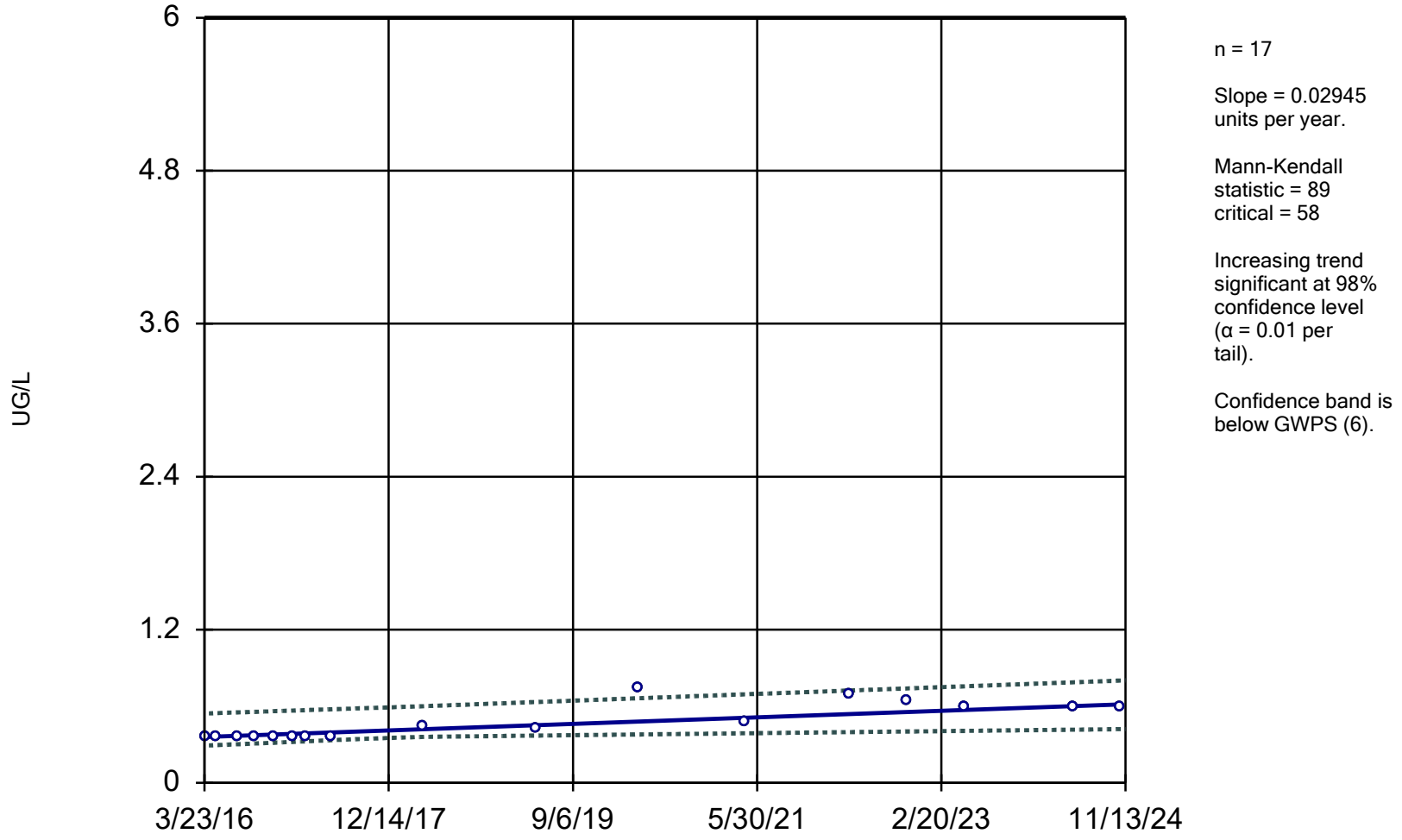
Constituent: COBALT, TOTAL Analysis Run 3/17/2025 11:02 AM View: Assessment Monitoring

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.24 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Sen's Slope and 95% Confidence Band

L-UMW-7D



n = 17

Slope = 0.02945 units per year.

Mann-Kendall statistic = 89
critical = 58

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Confidence band is below GWPS (6).

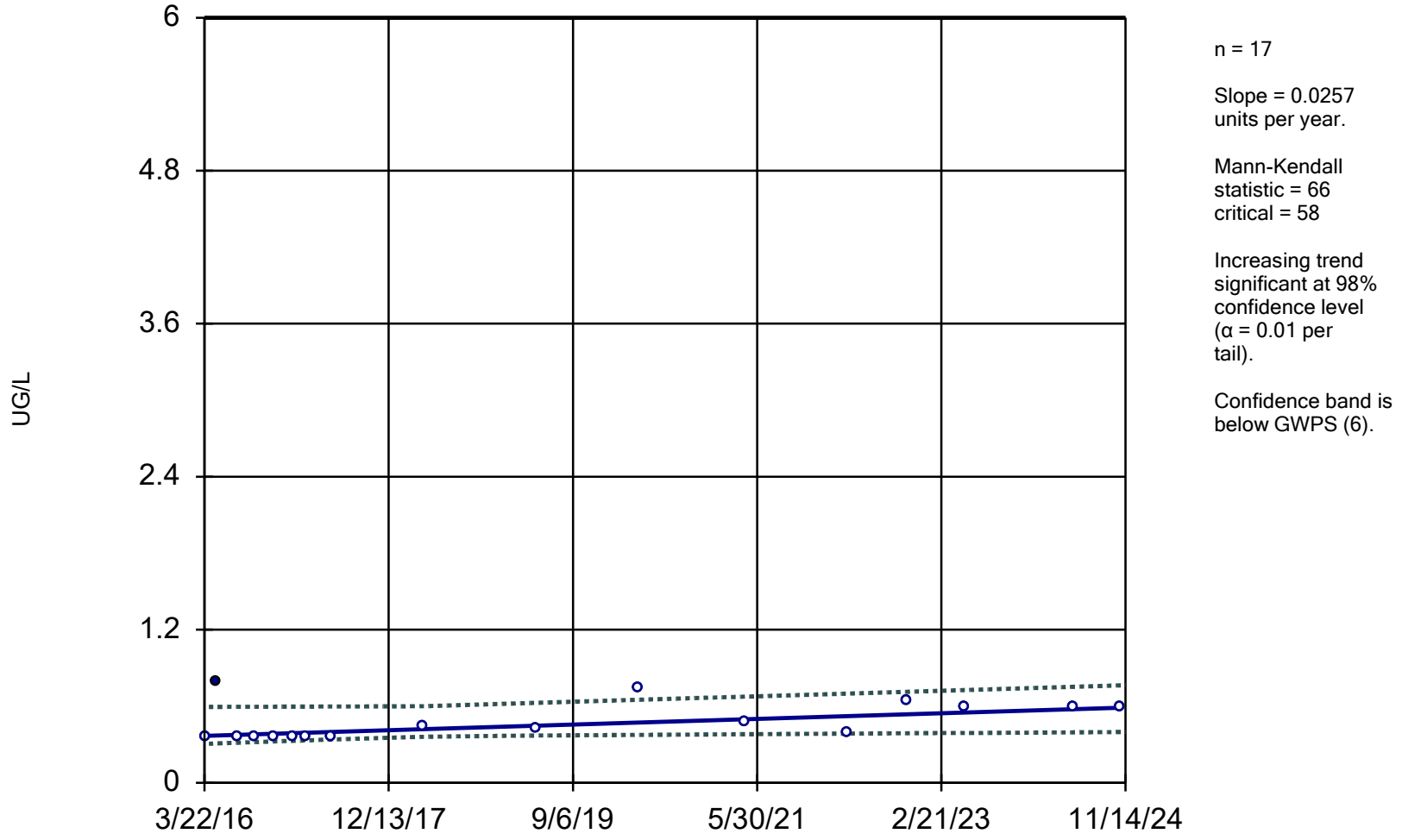
Constituent: COBALT, TOTAL Analysis Run 3/17/2025 11:02 AM View: Assessment Monitoring

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.24 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Sen's Slope and 95% Confidence Band

L-UMW-8D



n = 17

Slope = 0.0257 units per year.

Mann-Kendall statistic = 66
critical = 58

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Confidence band is below GWPS (6).

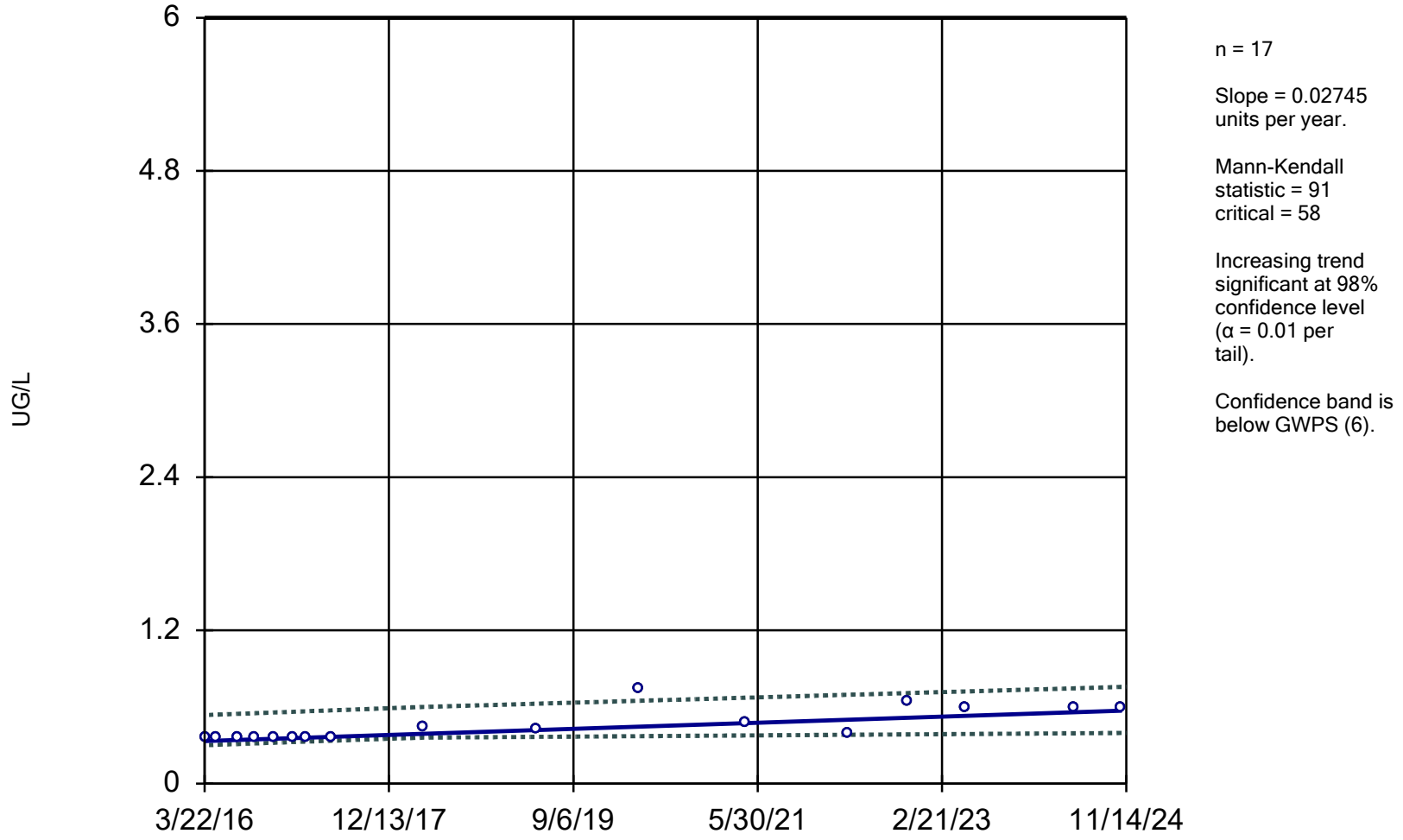
Constituent: COBALT, TOTAL Analysis Run 3/17/2025 11:02 AM View: Assessment Monitoring

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.24 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Sen's Slope and 95% Confidence Band

L-UMW-9D



n = 17

Slope = 0.02745 units per year.

Mann-Kendall statistic = 91
critical = 58

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Confidence band is below GWPS (6).

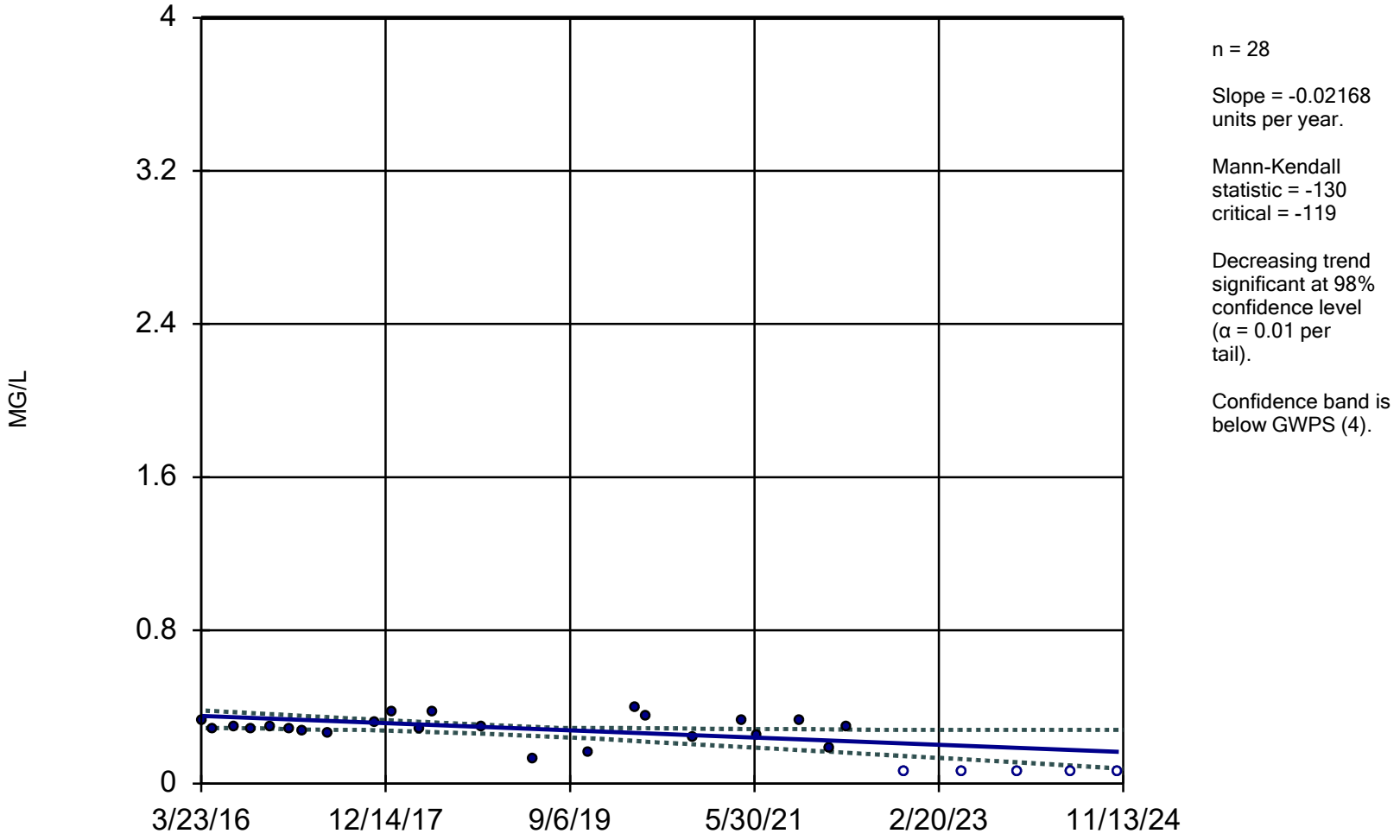
Constituent: COBALT, TOTAL Analysis Run 3/17/2025 11:02 AM View: Assessment Monitoring

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.24 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Sen's Slope and 95% Confidence Band

L-UMW-7D



n = 28

Slope = -0.02168 units per year.

Mann-Kendall statistic = -130
critical = -119

Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

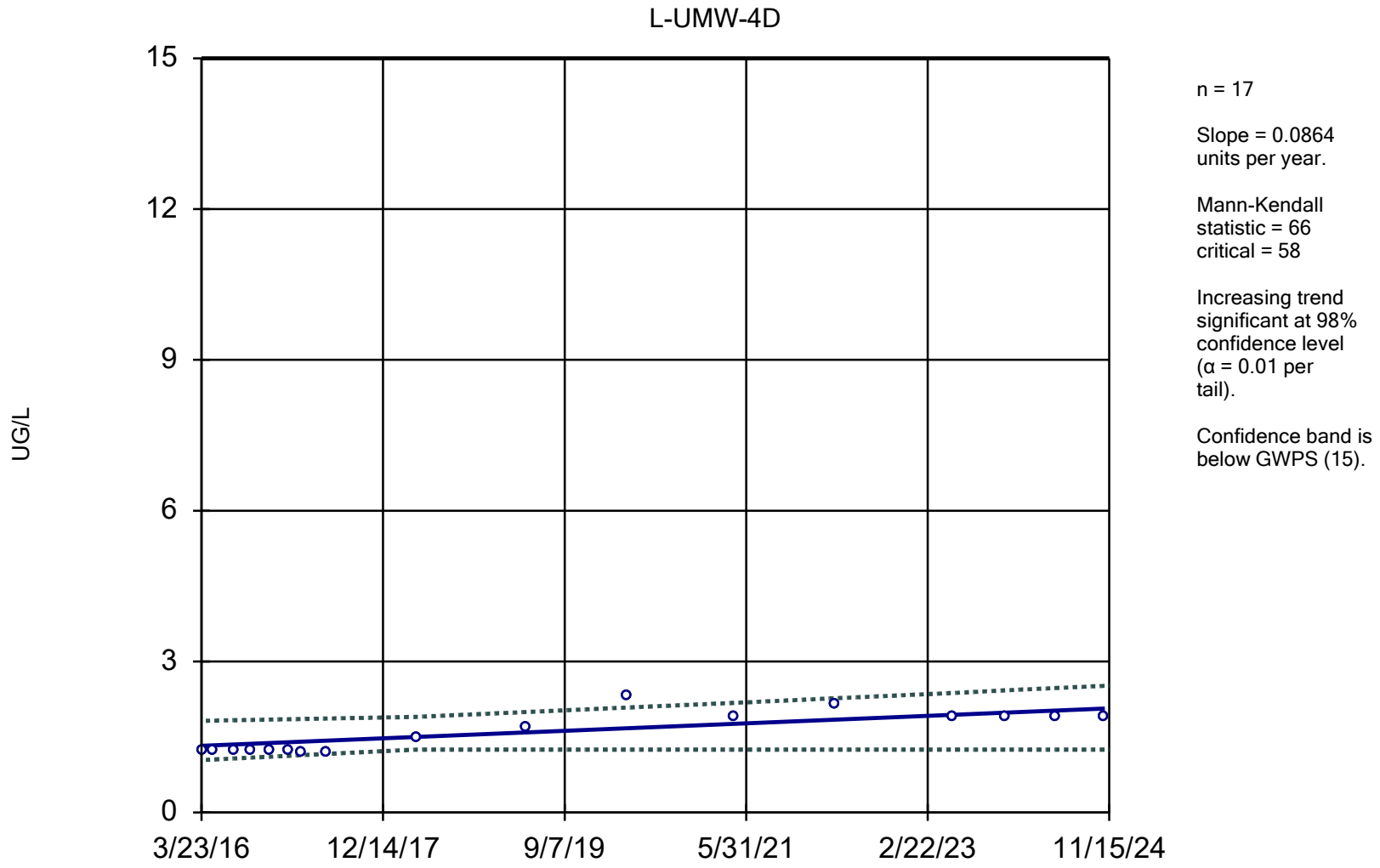
Confidence band is below GWPS (4).

Constituent: FLUORIDE, TOTAL Analysis Run 3/17/2025 11:02 AM View: Assessment Monitoring

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.24 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Sen's Slope and 95% Confidence Band



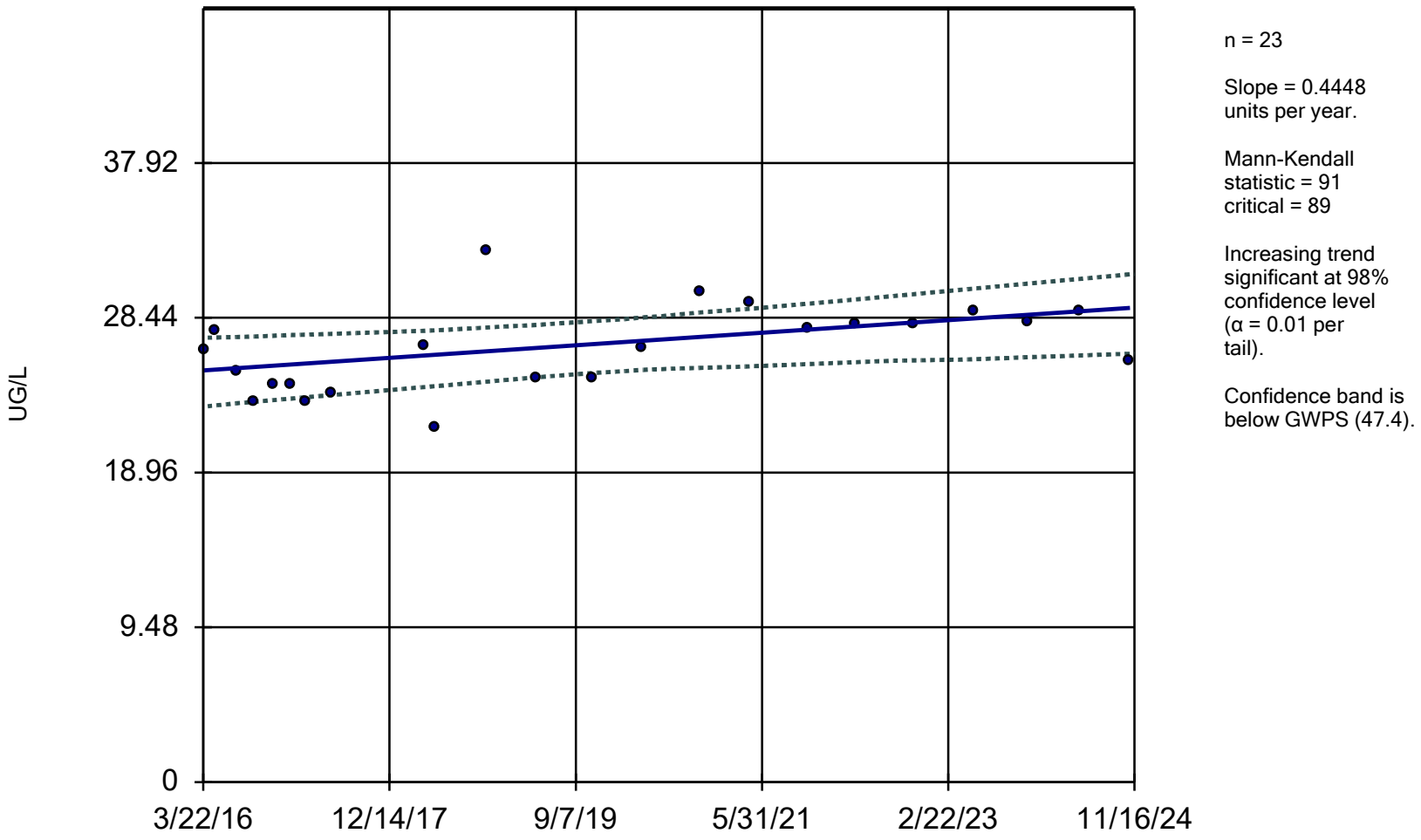
Constituent: LEAD, TOTAL Analysis Run 3/17/2025 11:02 AM View: Assessment Monitoring

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.24 Software licensed to Rocksmith Geoengineering. UG

Sen's Slope and 95% Confidence Band

L-UMW-1D



n = 23

Slope = 0.4448 units per year.

Mann-Kendall statistic = 91
critical = 89

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Confidence band is below GWPS (47.4).

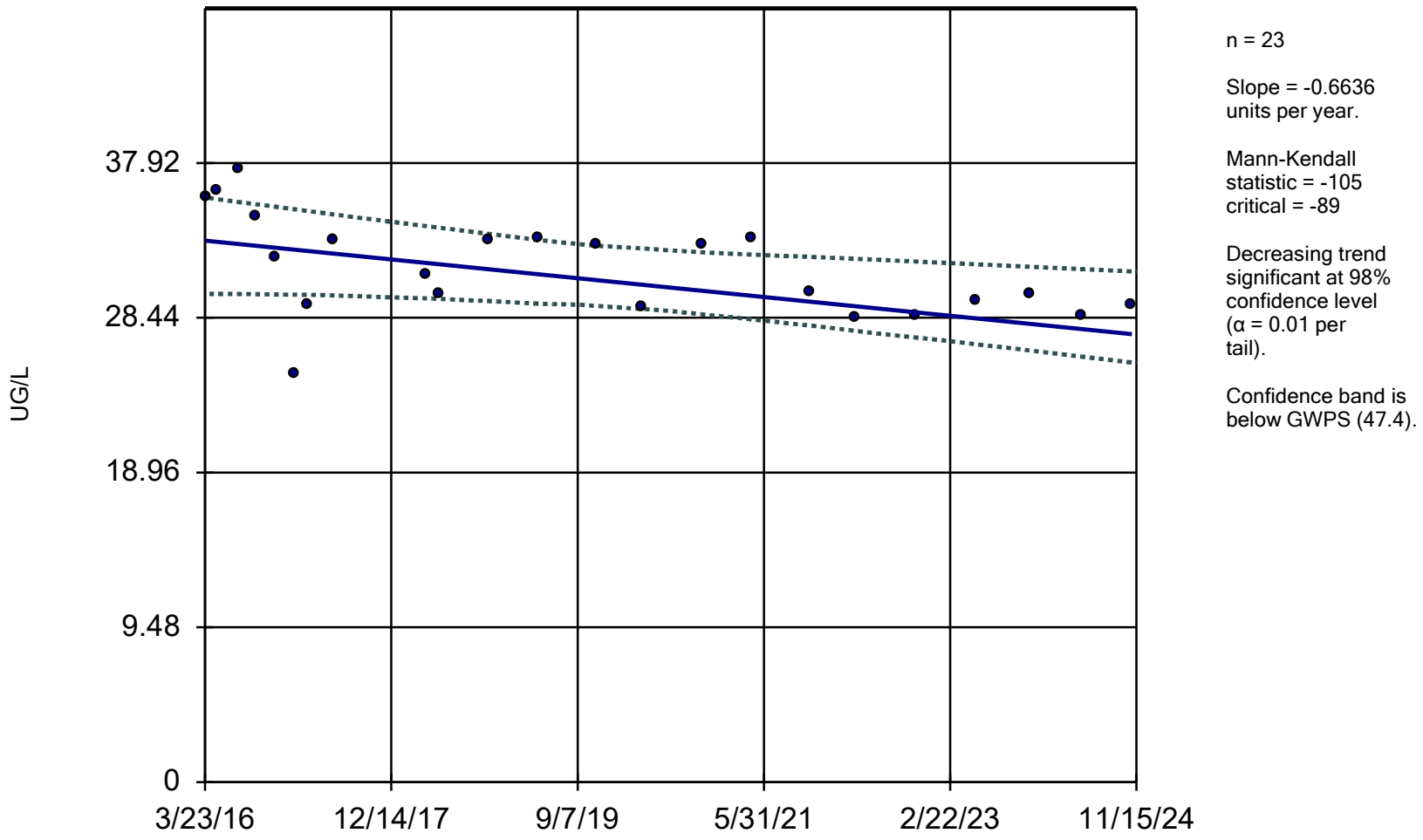
Constituent: LITHIUM, TOTAL Analysis Run 3/17/2025 11:03 AM View: Assessment Monitoring

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.24 Software licensed to Rocksmith Geoengineering. UG

Sen's Slope and 95% Confidence Band

L-UMW-4D



n = 23

Slope = -0.6636 units per year.

Mann-Kendall statistic = -105 critical = -89

Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

Confidence band is below GWPS (47.4).

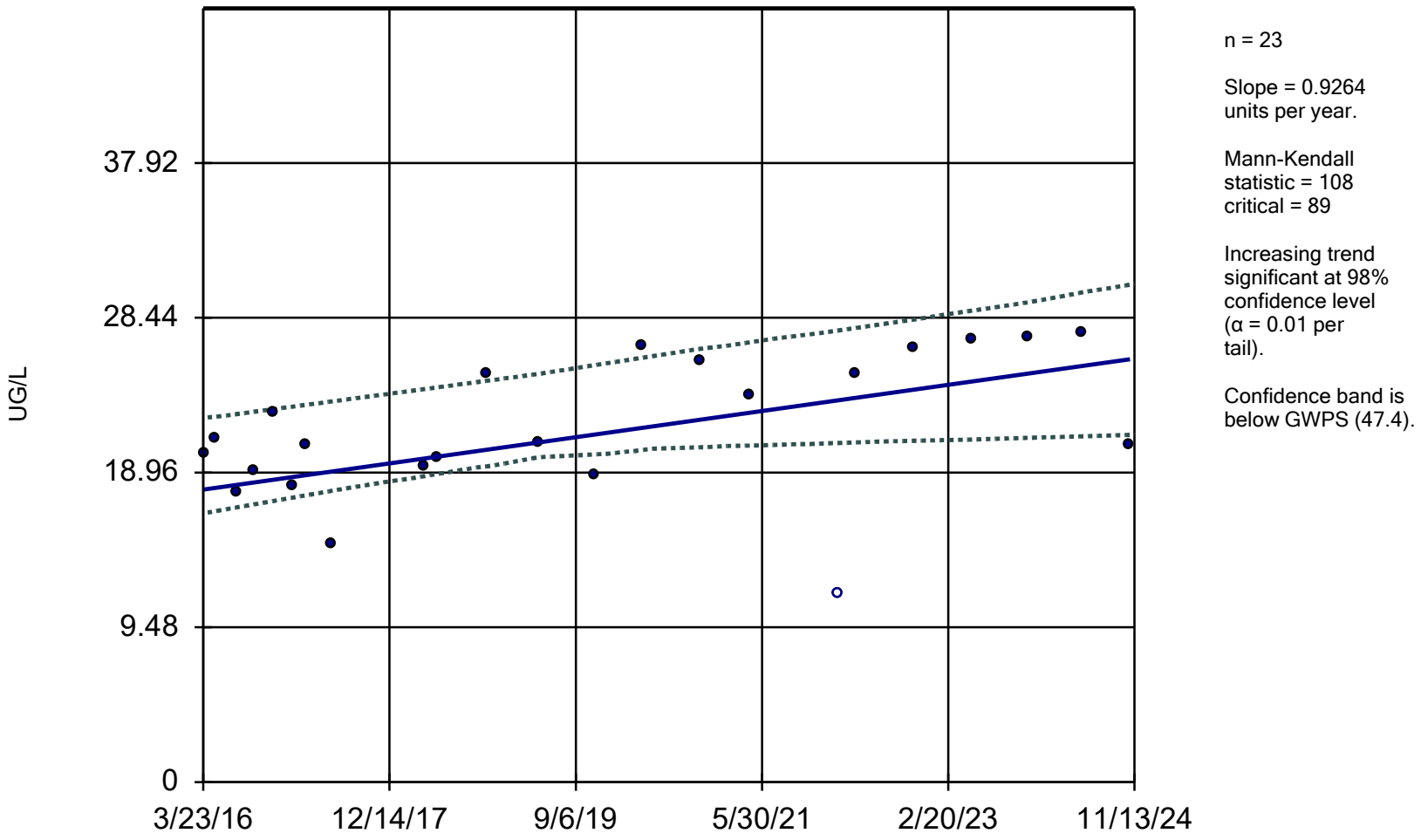
Constituent: LITHIUM, TOTAL Analysis Run 3/17/2025 11:03 AM View: Assessment Monitoring

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.24 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Sen's Slope and 95% Confidence Band

L-UMW-7D



n = 23

Slope = 0.9264 units per year.

Mann-Kendall statistic = 108 critical = 89

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Confidence band is below GWPS (47.4).

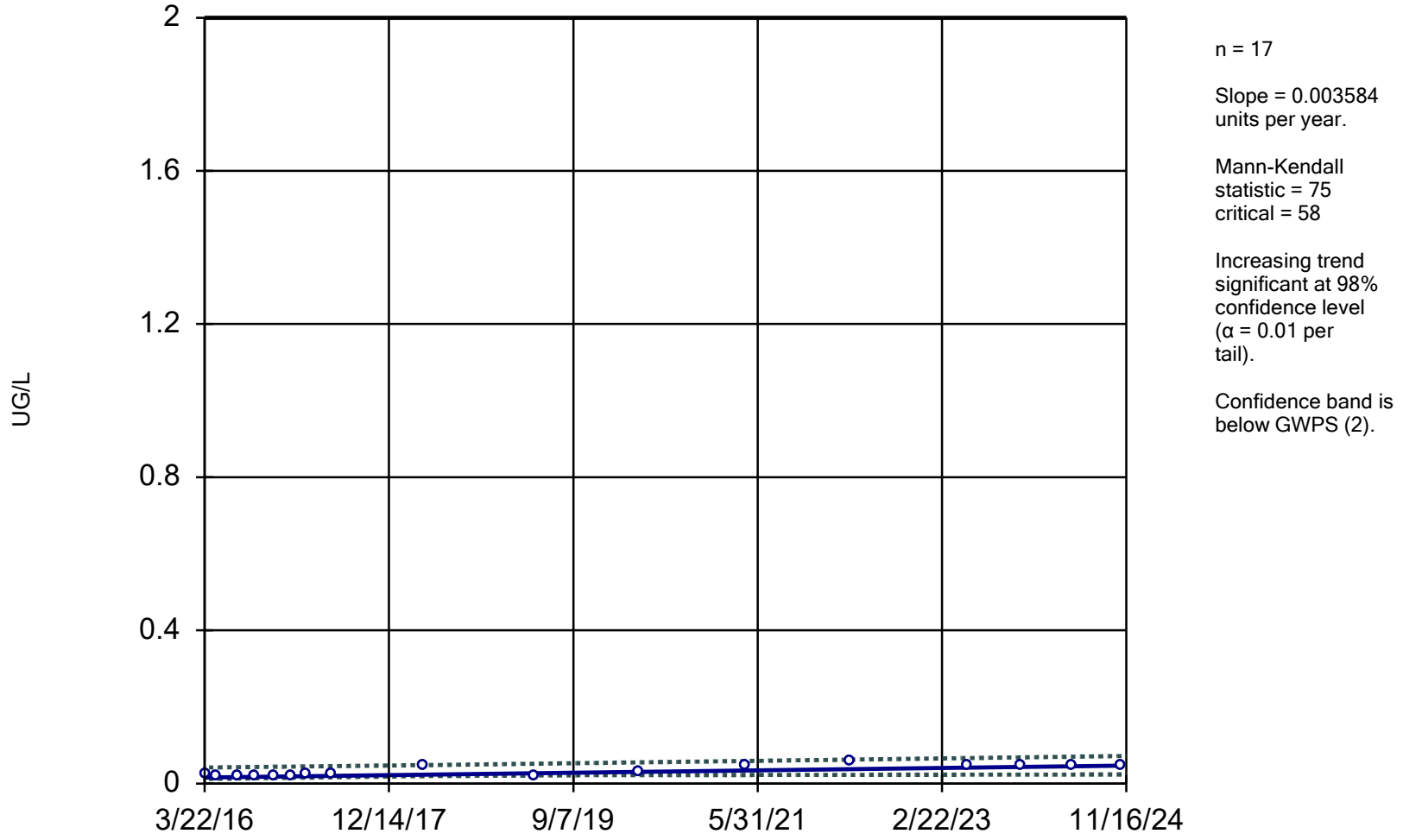
Constituent: LITHIUM, TOTAL Analysis Run 3/17/2025 11:03 AM View: Assessment Monitoring

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.24 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Sen's Slope and 95% Confidence Band

L-UMW-1D



n = 17

Slope = 0.003584 units per year.

Mann-Kendall statistic = 75
critical = 58

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Confidence band is below GWPS (2).

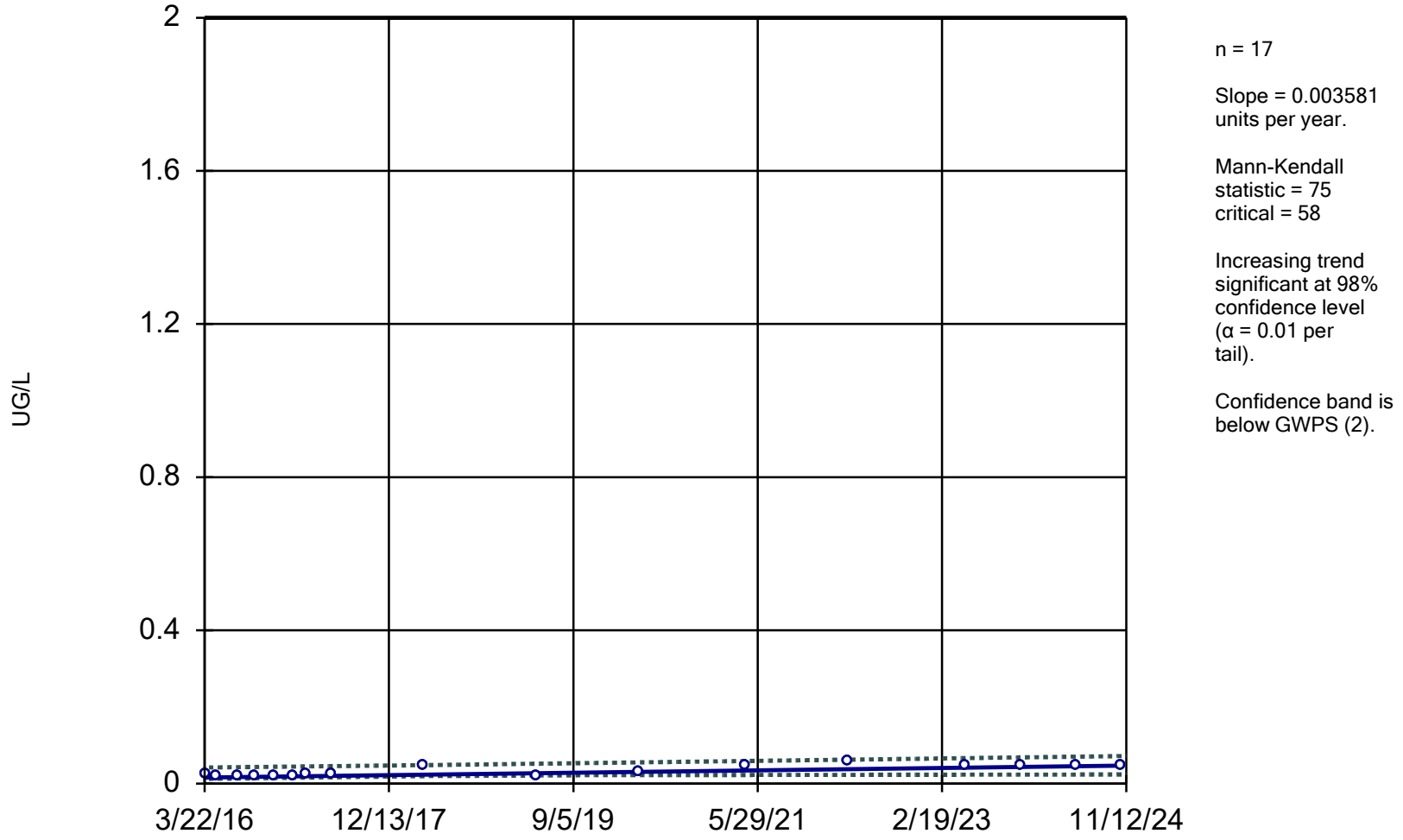
Constituent: MERCURY, TOTAL Analysis Run 3/17/2025 11:03 AM View: Assessment Monitoring

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.24 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Sen's Slope and 95% Confidence Band

L-UMW-2D



n = 17

Slope = 0.003581 units per year.

Mann-Kendall statistic = 75
critical = 58

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Confidence band is below GWPS (2).

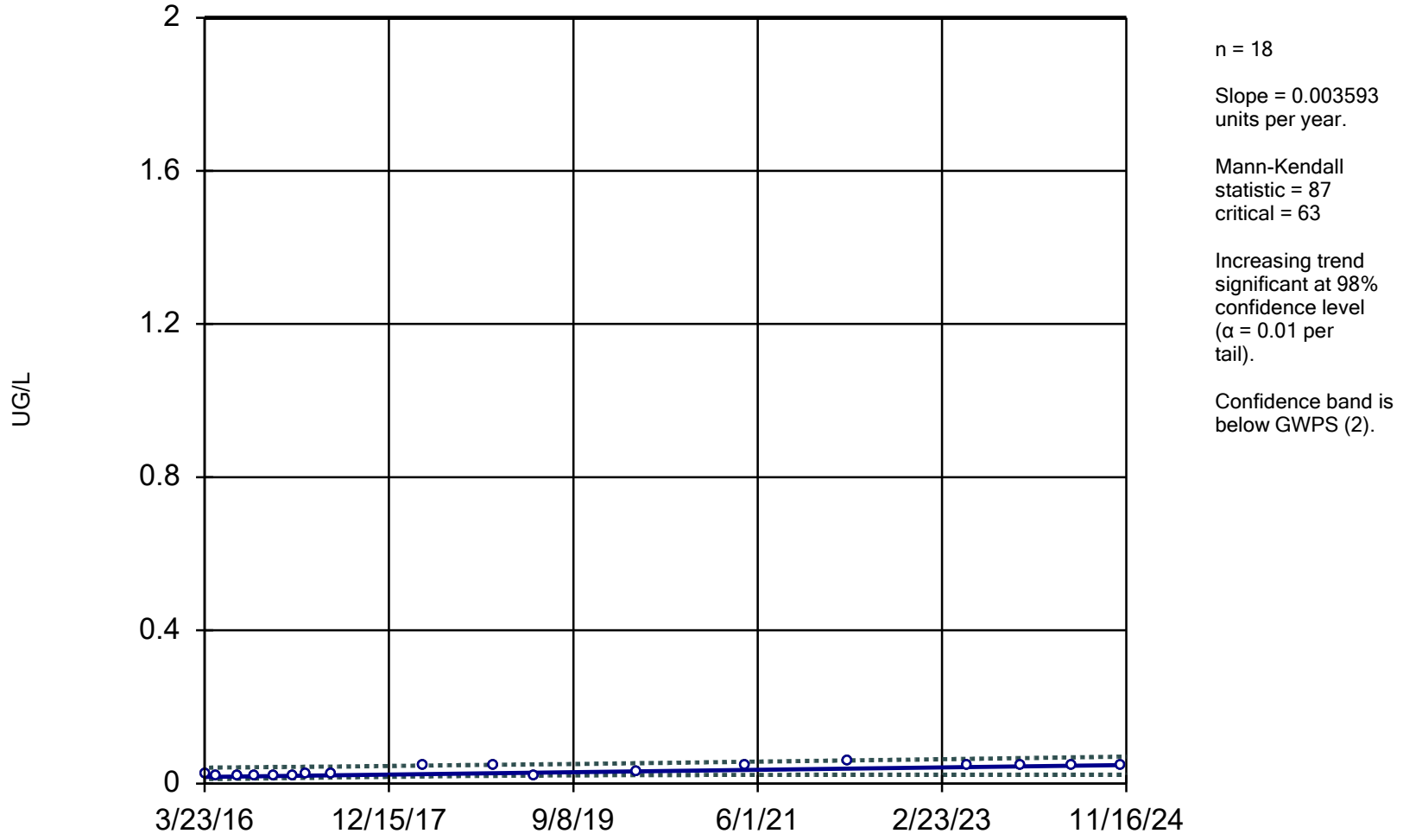
Constituent: MERCURY, TOTAL Analysis Run 3/17/2025 11:03 AM View: Assessment Monitoring

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.24 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Sen's Slope and 95% Confidence Band

L-UMW-3D



n = 18

Slope = 0.003593 units per year.

Mann-Kendall statistic = 87
critical = 63

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Confidence band is below GWPS (2).

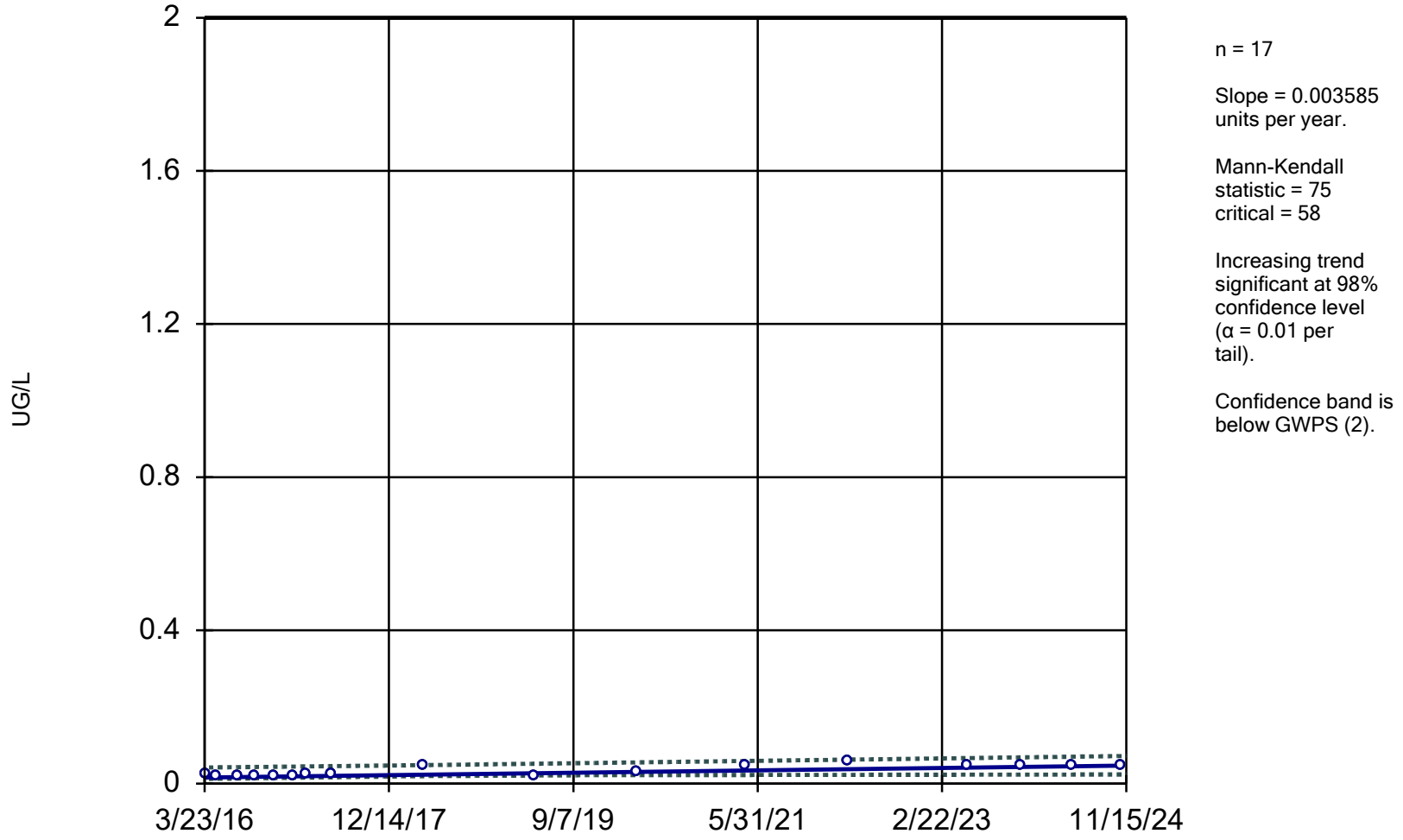
Constituent: MERCURY, TOTAL Analysis Run 3/17/2025 11:03 AM View: Assessment Monitoring

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.24 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Sen's Slope and 95% Confidence Band

L-UMW-4D



n = 17

Slope = 0.003585 units per year.

Mann-Kendall statistic = 75
critical = 58

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Confidence band is below GWPS (2).

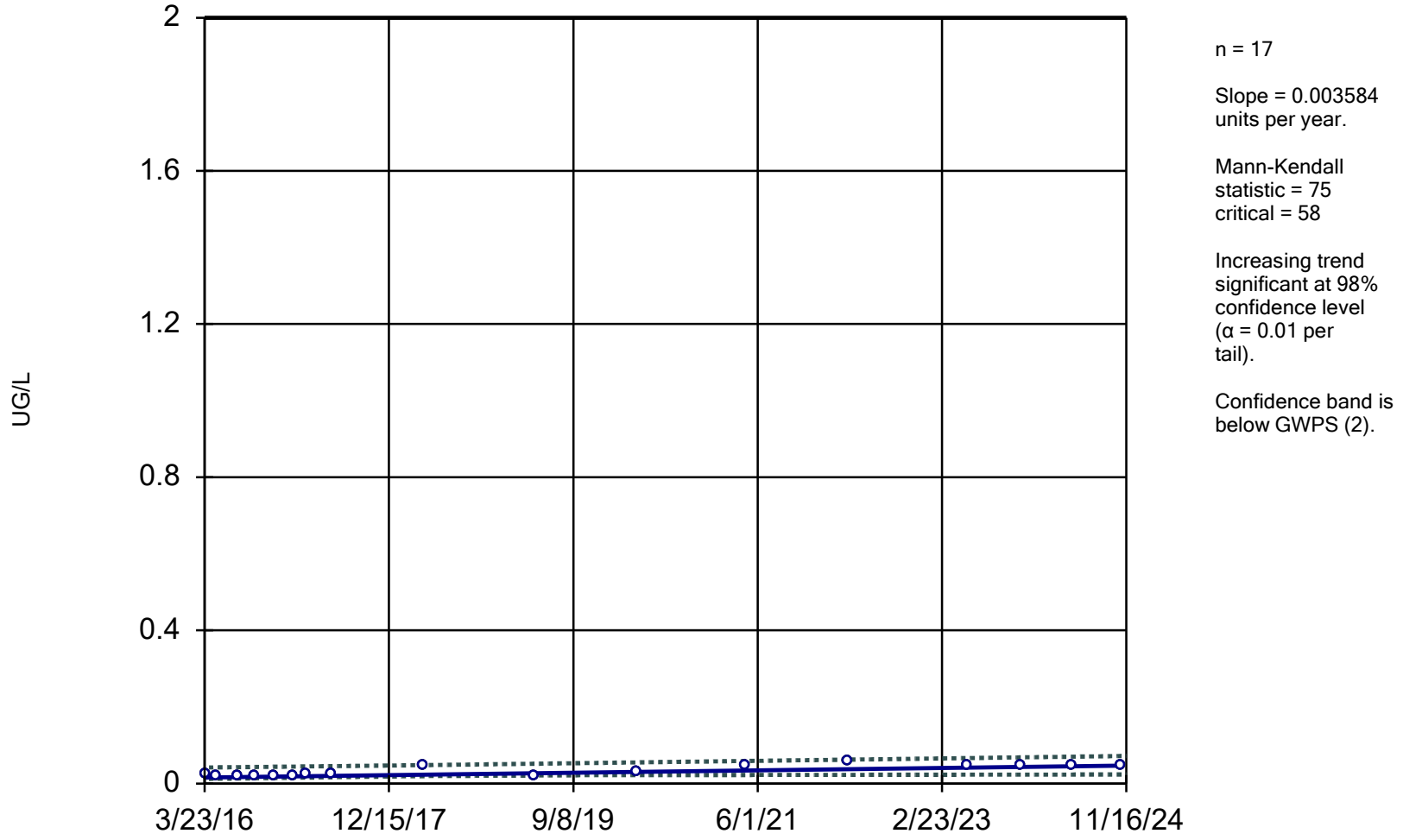
Constituent: MERCURY, TOTAL Analysis Run 3/17/2025 11:03 AM View: Assessment Monitoring

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.24 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Sen's Slope and 95% Confidence Band

L-UMW-5D



n = 17

Slope = 0.003584 units per year.

Mann-Kendall statistic = 75
critical = 58

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Confidence band is below GWPS (2).

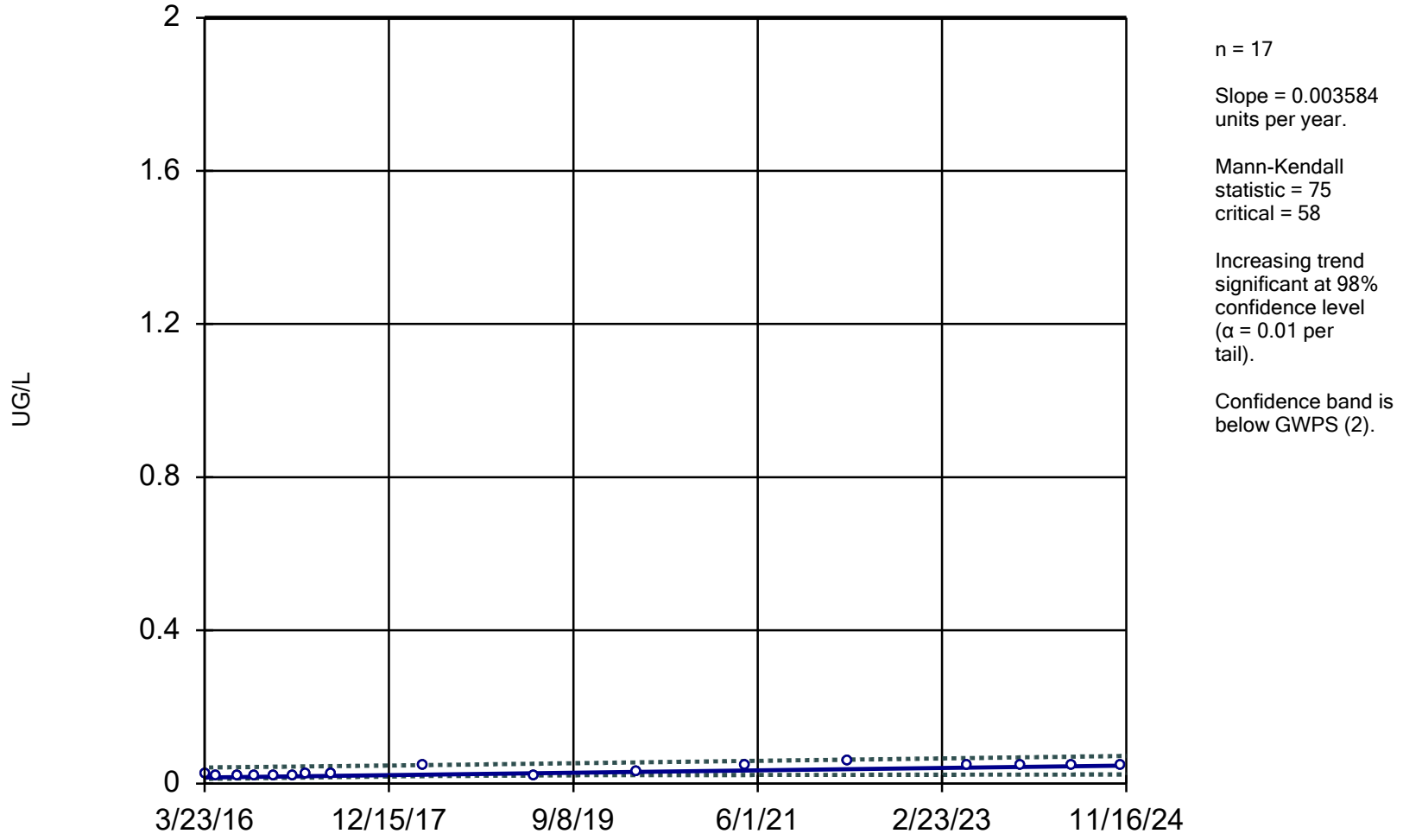
Constituent: MERCURY, TOTAL Analysis Run 3/17/2025 11:03 AM View: Assessment Monitoring

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.24 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Sen's Slope and 95% Confidence Band

L-UMW-6D



n = 17

Slope = 0.003584 units per year.

Mann-Kendall statistic = 75
critical = 58

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Confidence band is below GWPS (2).

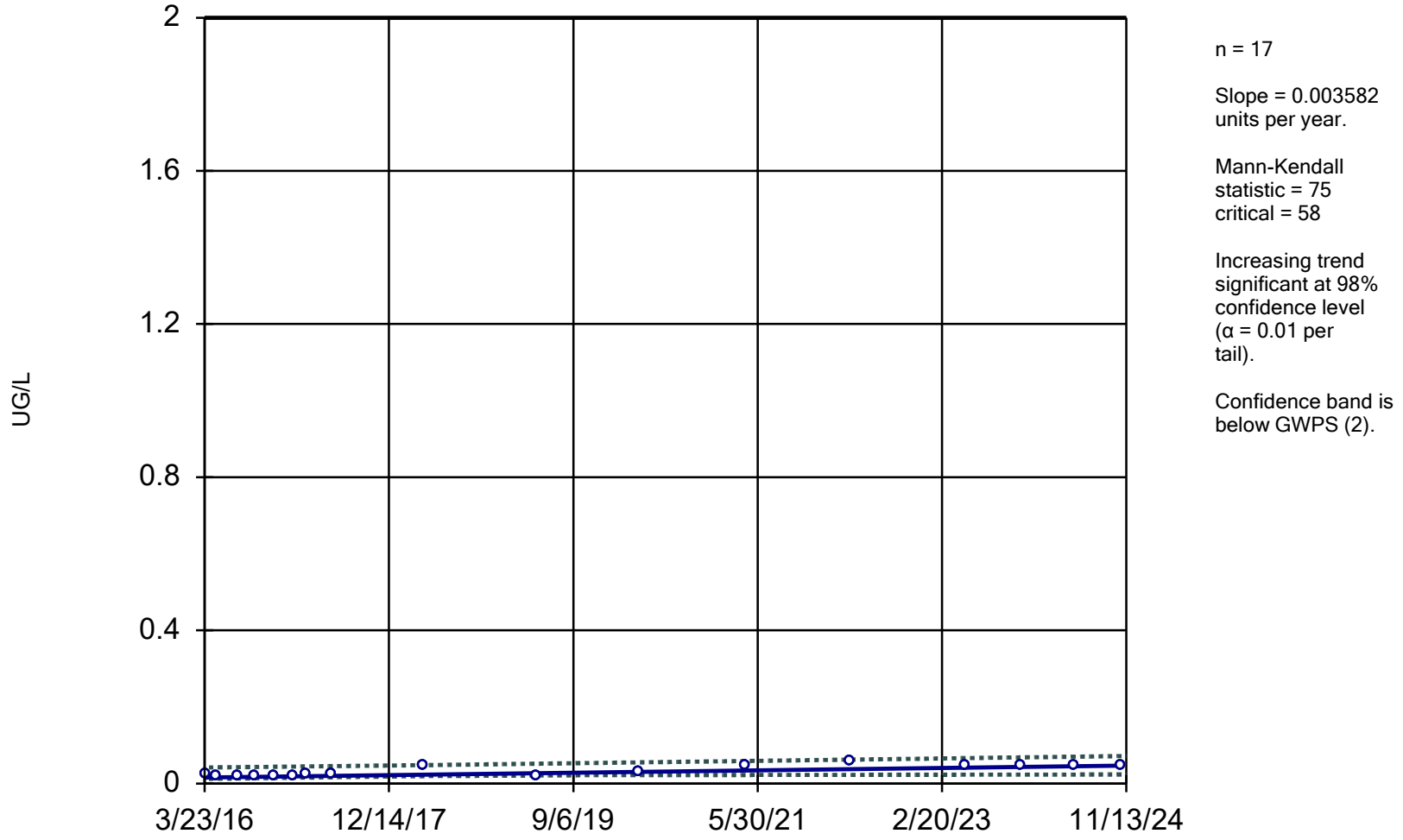
Constituent: MERCURY, TOTAL Analysis Run 3/17/2025 11:03 AM View: Assessment Monitoring

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.24 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Sen's Slope and 95% Confidence Band

L-UMW-7D



n = 17

Slope = 0.003582 units per year.

Mann-Kendall statistic = 75
critical = 58

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Confidence band is below GWPS (2).

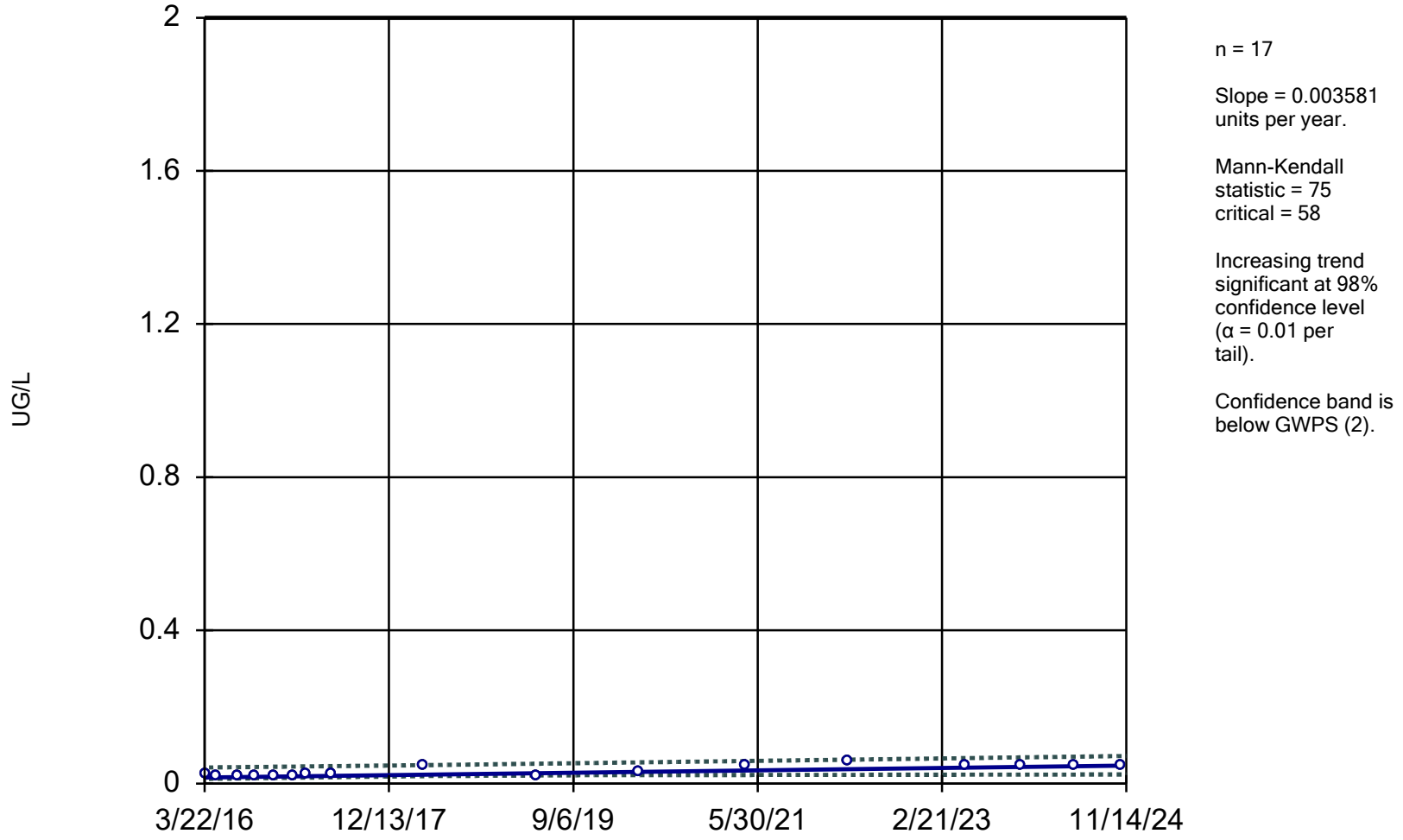
Constituent: MERCURY, TOTAL Analysis Run 3/17/2025 11:03 AM View: Assessment Monitoring

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.24 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Sen's Slope and 95% Confidence Band

L-UMW-8D



n = 17

Slope = 0.003581 units per year.

Mann-Kendall statistic = 75
critical = 58

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Confidence band is below GWPS (2).

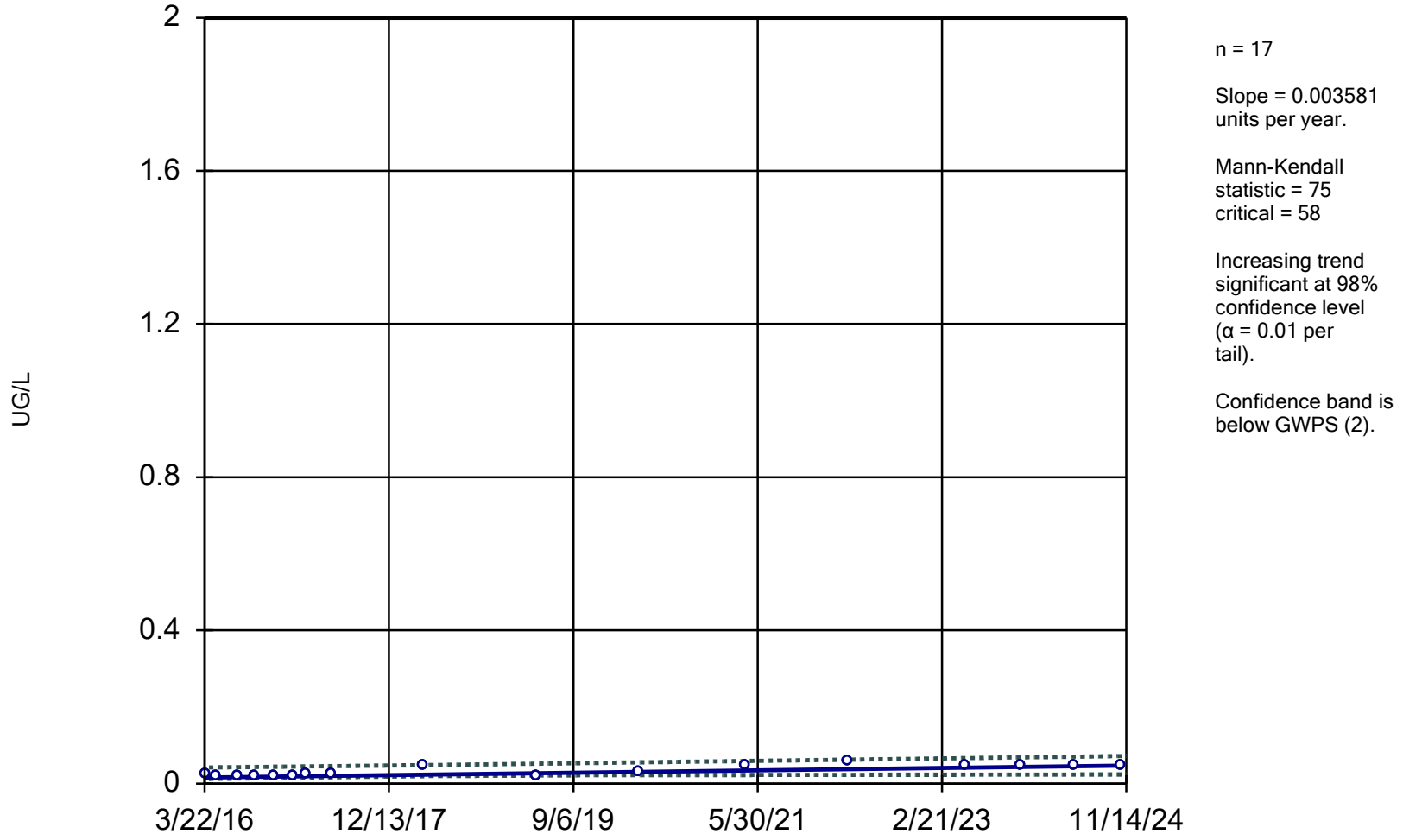
Constituent: MERCURY, TOTAL Analysis Run 3/17/2025 11:03 AM View: Assessment Monitoring

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.24 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Sen's Slope and 95% Confidence Band

L-UMW-9D



n = 17

Slope = 0.003581 units per year.

Mann-Kendall statistic = 75
critical = 58

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Confidence band is below GWPS (2).

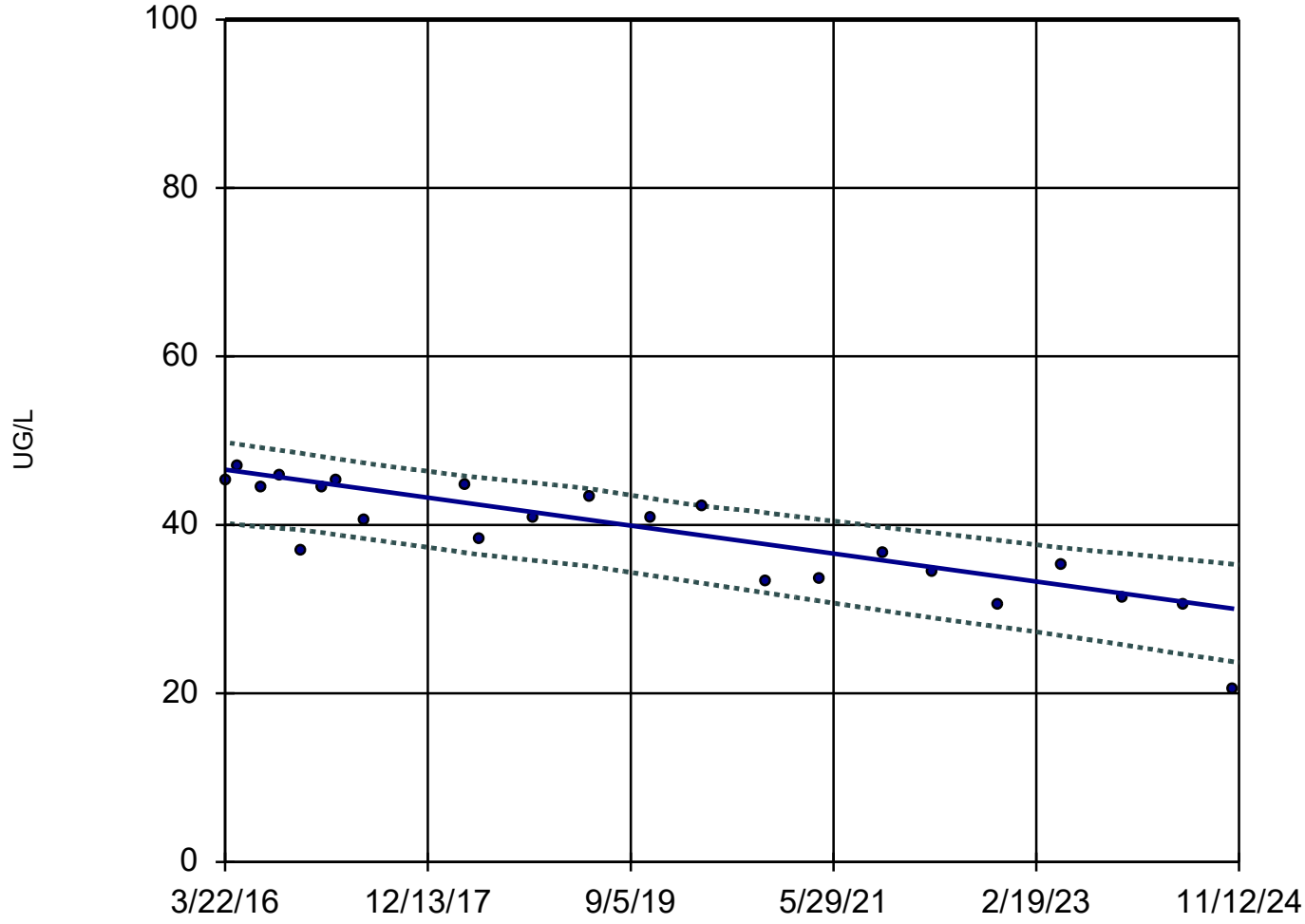
Constituent: MERCURY, TOTAL Analysis Run 3/17/2025 11:03 AM View: Assessment Monitoring

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.24 Software licensed to Rocksmith Geoengineering. UG

Sen's Slope and 95% Confidence Band

L-UMW-2D



n = 23

Slope = -1.921 units per year.

Mann-Kendall statistic = -173 critical = -89

Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

Confidence band is below GWPS (100).

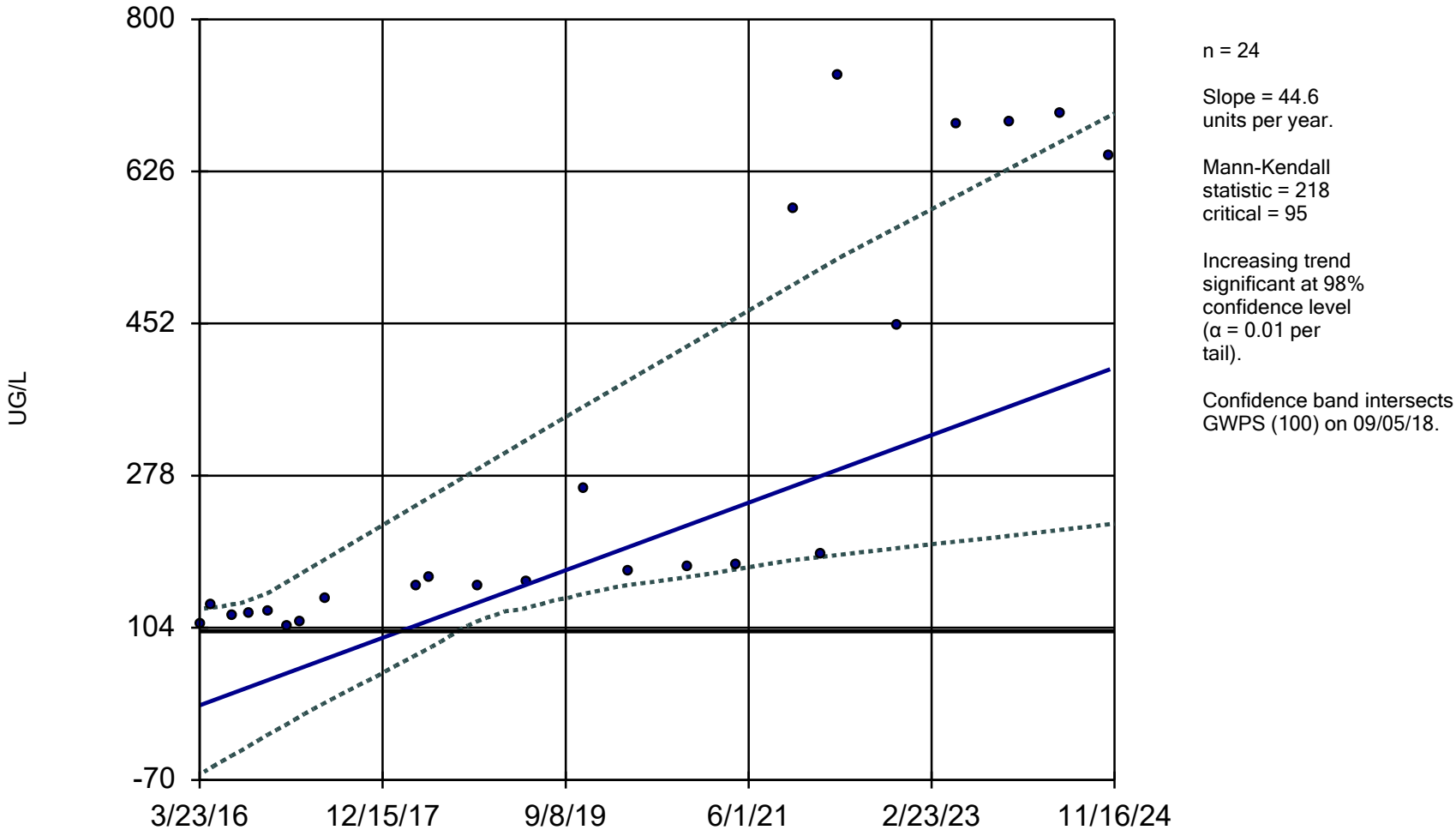
Constituent: MOLYBDENUM, TOTAL Analysis Run 3/17/2025 11:03 AM View: Assessment Monitoring

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.24 Software licensed to Rocksmith Geoengineering. UG

Sen's Slope and 95% Confidence Band

L-UMW-5D



n = 24

Slope = 44.6
units per year.

Mann-Kendall
statistic = 218
critical = 95

Increasing trend
significant at 98%
confidence level
(α = 0.01 per
tail).

Confidence band intersects
GWPS (100) on 09/05/18.

Constituent: MOLYBDENUM, TOTAL Analysis Run 3/17/2025 11:03 AM View: Assessment Monitoring

Labadie E.C. Client: Ameren Data: LEC DATA

Trend Test

Labadie E.C. Client: Ameren Data: LEC DATA Printed 3/17/2025, 11:09 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
ANTIMONY, TOTAL (UG/L)	**L-UMW-1D**	**0.004043**	**78**	**63**	**Yes**	**18**	**88.89**	**n/a**	**n/a**	**0.02**	**NP**
ANTIMONY, TOTAL (UG/L)	**L-UMW-2D**	**0.004112**	**88**	**63**	**Yes**	**18**	**100**	**n/a**	**n/a**	**0.02**	**NP**
ANTIMONY, TOTAL (UG/L)	L-UMW-3D	0.003951	67	68	No	19	89.47	n/a	n/a	0.02	NP
ANTIMONY, TOTAL (UG/L)	**L-UMW-4D**	**0.003979**	**71**	**63**	**Yes**	**18**	**94.44**	**n/a**	**n/a**	**0.02**	**NP**
ANTIMONY, TOTAL (UG/L)	L-UMW-5D	0	12	63	No	18	66.67	n/a	n/a	0.02	NP
ANTIMONY, TOTAL (UG/L)	**L-UMW-6D**	**0.00389**	**65**	**63**	**Yes**	**18**	**94.44**	**n/a**	**n/a**	**0.02**	**NP**
ANTIMONY, TOTAL (UG/L)	**L-UMW-7D**	**0.004112**	**88**	**63**	**Yes**	**18**	**100**	**n/a**	**n/a**	**0.02**	**NP**
ANTIMONY, TOTAL (UG/L)	**L-UMW-8D**	**0.004112**	**88**	**63**	**Yes**	**18**	**100**	**n/a**	**n/a**	**0.02**	**NP**
ANTIMONY, TOTAL (UG/L)	**L-UMW-9D**	**0.004122**	**102**	**63**	**Yes**	**18**	**94.44**	**n/a**	**n/a**	**0.02**	**NP**
ARSENIC, TOTAL (UG/L)	**L-UMW-1D**	**2.433**	**136**	**89**	**Yes**	**23**	**0**	**n/a**	**n/a**	**0.02**	**NP**
ARSENIC, TOTAL (UG/L)	**L-UMW-2D**	**-0.1754**	**-161**	**-89**	**Yes**	**23**	**0**	**n/a**	**n/a**	**0.02**	**NP**
ARSENIC, TOTAL (UG/L)	**L-UMW-3D**	**0.8307**	**103**	**89**	**Yes**	**23**	**4.348**	**n/a**	**n/a**	**0.02**	**NP**
ARSENIC, TOTAL (UG/L)	L-UMW-4D	0	2	89	No	23	34.78	n/a	n/a	0.02	NP
ARSENIC, TOTAL (UG/L)	L-UMW-5D	-0.4419	-49	-89	No	23	0	n/a	n/a	0.02	NP
ARSENIC, TOTAL (UG/L)	L-UMW-6D	0.5906	43	84	No	22	0	n/a	n/a	0.02	NP
ARSENIC, TOTAL (UG/L)	**L-UMW-7D**	**1.396**	**158**	**89**	**Yes**	**23**	**0**	**n/a**	**n/a**	**0.02**	**NP**
ARSENIC, TOTAL (UG/L)	L-UMW-8D	-0.05561	-7	-89	No	23	0	n/a	n/a	0.02	NP
ARSENIC, TOTAL (UG/L)	**L-UMW-9D**	**-0.4695**	**-95**	**-89**	**Yes**	**23**	**0**	**n/a**	**n/a**	**0.02**	**NP**
BARIUM, TOTAL (UG/L)	**L-UMW-1D**	**16.53**	**137**	**89**	**Yes**	**23**	**0**	**n/a**	**n/a**	**0.02**	**NP**
BARIUM, TOTAL (UG/L)	L-UMW-2D	3.015	73	89	No	23	0	n/a	n/a	0.02	NP
BARIUM, TOTAL (UG/L)	**L-UMW-3D**	**-5.911**	**-103**	**-95**	**Yes**	**24**	**0**	**n/a**	**n/a**	**0.02**	**NP**
BARIUM, TOTAL (UG/L)	L-UMW-4D	1.245	54	89	No	23	0	n/a	n/a	0.02	NP
BARIUM, TOTAL (UG/L)	L-UMW-5D	1.68	65	89	No	23	0	n/a	n/a	0.02	NP
BARIUM, TOTAL (UG/L)	**L-UMW-6D**	**-6.323**	**-141**	**-89**	**Yes**	**23**	**0**	**n/a**	**n/a**	**0.02**	**NP**
BARIUM, TOTAL (UG/L)	L-UMW-7D	-4.719	-64	-89	No	23	0	n/a	n/a	0.02	NP
BARIUM, TOTAL (UG/L)	**L-UMW-8D**	**-40.96**	**-178**	**-89**	**Yes**	**23**	**0**	**n/a**	**n/a**	**0.02**	**NP**
BARIUM, TOTAL (UG/L)	**L-UMW-9D**	**-3.38**	**-101**	**-89**	**Yes**	**23**	**0**	**n/a**	**n/a**	**0.02**	**NP**
BERYLLIUM, TOTAL (UG/L)	L-UMW-1D	-0.00...	-19	-58	No	17	88.24	n/a	n/a	0.02	NP
BERYLLIUM, TOTAL (UG/L)	L-UMW-2D	-0.00...	-27	-58	No	17	94.12	n/a	n/a	0.02	NP
BERYLLIUM, TOTAL (UG/L)	L-UMW-3D	-0.00...	-52	-63	No	18	100	n/a	n/a	0.02	NP
BERYLLIUM, TOTAL (UG/L)	L-UMW-4D	-0.00...	-23	-58	No	17	94.12	n/a	n/a	0.02	NP
BERYLLIUM, TOTAL (UG/L)	L-UMW-5D	-0.00...	-46	-58	No	17	100	n/a	n/a	0.02	NP
BERYLLIUM, TOTAL (UG/L)	L-UMW-6D	-0.00...	-46	-58	No	17	100	n/a	n/a	0.02	NP
BERYLLIUM, TOTAL (UG/L)	L-UMW-7D	0	-11	-58	No	17	82.35	n/a	n/a	0.02	NP
BERYLLIUM, TOTAL (UG/L)	L-UMW-8D	-0.00...	-33	-53	No	16	100	n/a	n/a	0.02	NP
BERYLLIUM, TOTAL (UG/L)	L-UMW-9D	0	7	58	No	17	88.24	n/a	n/a	0.02	NP
CADMIUM, TOTAL (UG/L)	L-UMW-1D	0.001312	48	58	No	17	100	n/a	n/a	0.02	NP
CADMIUM, TOTAL (UG/L)	L-UMW-2D	0.001311	48	58	No	17	100	n/a	n/a	0.02	NP
CADMIUM, TOTAL (UG/L)	**L-UMW-3D**	**0.01037**	**83**	**63**	**Yes**	**18**	**55.56**	**n/a**	**n/a**	**0.02**	**NP**
CADMIUM, TOTAL (UG/L)	**L-UMW-4D**	**0.00549**	**64**	**58**	**Yes**	**17**	**76.47**	**n/a**	**n/a**	**0.02**	**NP**
CADMIUM, TOTAL (UG/L)	**L-UMW-5D**	**0.02089**	**63**	**58**	**Yes**	**17**	**70.59**	**n/a**	**n/a**	**0.02**	**NP**
CADMIUM, TOTAL (UG/L)	**L-UMW-6D**	**0.02027**	**64**	**58**	**Yes**	**17**	**58.82**	**n/a**	**n/a**	**0.02**	**NP**
CADMIUM, TOTAL (UG/L)	L-UMW-7D	0.001445	39	58	No	17	82.35	n/a	n/a	0.02	NP
CADMIUM, TOTAL (UG/L)	L-UMW-8D	0.001311	48	58	No	17	100	n/a	n/a	0.02	NP
CADMIUM, TOTAL (UG/L)	L-UMW-9D	0.001311	48	58	No	17	100	n/a	n/a	0.02	NP
CHROMIUM, TOTAL (UG/L)	L-UMW-1D	0.02058	51	63	No	18	50	n/a	n/a	0.02	NP
CHROMIUM, TOTAL (UG/L)	L-UMW-2D	0.01135	29	68	No	19	57.89	n/a	n/a	0.02	NP
CHROMIUM, TOTAL (UG/L)	L-UMW-3D	0.01439	32	73	No	20	70	n/a	n/a	0.02	NP
CHROMIUM, TOTAL (UG/L)	L-UMW-4D	0	3	63	No	18	66.67	n/a	n/a	0.02	NP
CHROMIUM, TOTAL (UG/L)	L-UMW-5D	0	-3	-68	No	19	73.68	n/a	n/a	0.02	NP

Trend Test

Labadie E.C. Client: Ameren Data: LEC DATA Printed 3/17/2025, 11:09 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
CHROMIUM, TOTAL (UG/L)	L-UMW-6D	-0.00...	-21	-68	No	19	63.16	n/a	n/a	0.02	NP
CHROMIUM, TOTAL (UG/L)	L-UMW-7D	-0.00308	-22	-68	No	19	52.63	n/a	n/a	0.02	NP
CHROMIUM, TOTAL (UG/L)	L-UMW-8D	0.002322	6	68	No	19	63.16	n/a	n/a	0.02	NP
CHROMIUM, TOTAL (UG/L)	L-UMW-9D	0.006797	14	68	No	19	63.16	n/a	n/a	0.02	NP
COBALT, TOTAL (UG/L)	**L-UMW-1D**	**0.0294**	**92**	**58**	**Yes**	**17**	**100**	**n/a**	**n/a**	**0.02**	**NP**
COBALT, TOTAL (UG/L)	**L-UMW-2D**	**0.02833**	**101**	**63**	**Yes**	**18**	**100**	**n/a**	**n/a**	**0.02**	**NP**
COBALT, TOTAL (UG/L)	**L-UMW-3D**	**0.02897**	**114**	**68**	**Yes**	**19**	**100**	**n/a**	**n/a**	**0.02**	**NP**
COBALT, TOTAL (UG/L)	**L-UMW-4D**	**0.02829**	**101**	**63**	**Yes**	**18**	**100**	**n/a**	**n/a**	**0.02**	**NP**
COBALT, TOTAL (UG/L)	**L-UMW-5D**	**0.02827**	**101**	**63**	**Yes**	**18**	**100**	**n/a**	**n/a**	**0.02**	**NP**
COBALT, TOTAL (UG/L)	**L-UMW-6D**	**0.02827**	**101**	**63**	**Yes**	**18**	**100**	**n/a**	**n/a**	**0.02**	**NP**
COBALT, TOTAL (UG/L)	**L-UMW-7D**	**0.02945**	**89**	**58**	**Yes**	**17**	**100**	**n/a**	**n/a**	**0.02**	**NP**
COBALT, TOTAL (UG/L)	**L-UMW-8D**	**0.0257**	**66**	**58**	**Yes**	**17**	**94.12**	**n/a**	**n/a**	**0.02**	**NP**
COBALT, TOTAL (UG/L)	**L-UMW-9D**	**0.02745**	**91**	**58**	**Yes**	**17**	**100**	**n/a**	**n/a**	**0.02**	**NP**
FLUORIDE, TOTAL (MG/L)	L-UMW-1D	0	17	112	No	27	14.81	n/a	n/a	0.02	NP
FLUORIDE, TOTAL (MG/L)	L-UMW-2D	-0.01929	-96	-101	No	25	24	n/a	n/a	0.02	NP
FLUORIDE, TOTAL (MG/L)	L-UMW-3D	-0.00...	-52	-119	No	28	39.29	n/a	n/a	0.02	NP
FLUORIDE, TOTAL (MG/L)	L-UMW-4D	-0.00...	-54	-106	No	26	0	n/a	n/a	0.02	NP
FLUORIDE, TOTAL (MG/L)	L-UMW-5D	0	-19	-101	No	25	36	n/a	n/a	0.02	NP
FLUORIDE, TOTAL (MG/L)	L-UMW-6D	-0.00838	-76	-95	No	24	37.5	n/a	n/a	0.02	NP
FLUORIDE, TOTAL (MG/L)	**L-UMW-7D**	**-0.02168**	**-130**	**-119**	**Yes**	**28**	**17.86**	**n/a**	**n/a**	**0.02**	**NP**
FLUORIDE, TOTAL (MG/L)	L-UMW-8D	0.007835	78	106	No	26	7.692	n/a	n/a	0.02	NP
FLUORIDE, TOTAL (MG/L)	L-UMW-9D	0.002938	22	95	No	24	16.67	n/a	n/a	0.02	NP
LEAD, TOTAL (UG/L)	L-UMW-1D	0	10	58	No	17	76.47	n/a	n/a	0.02	NP
LEAD, TOTAL (UG/L)	L-UMW-2D	0.08211	39	58	No	17	82.35	n/a	n/a	0.02	NP
LEAD, TOTAL (UG/L)	L-UMW-3D	0.08479	50	63	No	18	83.33	n/a	n/a	0.02	NP
LEAD, TOTAL (UG/L)	**L-UMW-4D**	**0.0864**	**66**	**58**	**Yes**	**17**	**100**	**n/a**	**n/a**	**0.02**	**NP**
LEAD, TOTAL (UG/L)	L-UMW-5D	0.07331	31	58	No	17	88.24	n/a	n/a	0.02	NP
LEAD, TOTAL (UG/L)	L-UMW-6D	0.07331	31	58	No	17	88.24	n/a	n/a	0.02	NP
LEAD, TOTAL (UG/L)	L-UMW-7D	0.07906	43	53	No	16	87.5	n/a	n/a	0.02	NP
LEAD, TOTAL (UG/L)	L-UMW-8D	0.0817	44	58	No	17	82.35	n/a	n/a	0.02	NP
LEAD, TOTAL (UG/L)	L-UMW-9D	-0.04923	-12	-53	No	16	68.75	n/a	n/a	0.02	NP
LITHIUM, TOTAL (UG/L)	**L-UMW-1D**	**0.4448**	**91**	**89**	**Yes**	**23**	**0**	**n/a**	**n/a**	**0.02**	**NP**
LITHIUM, TOTAL (UG/L)	L-UMW-2D	0.4232	37	89	No	23	0	n/a	n/a	0.02	NP
LITHIUM, TOTAL (UG/L)	L-UMW-3D	-0.3031	-52	-95	No	24	0	n/a	n/a	0.02	NP
LITHIUM, TOTAL (UG/L)	**L-UMW-4D**	**-0.6636**	**-105**	**-89**	**Yes**	**23**	**0**	**n/a**	**n/a**	**0.02**	**NP**
LITHIUM, TOTAL (UG/L)	L-UMW-5D	0.1945	17	89	No	23	0	n/a	n/a	0.02	NP
LITHIUM, TOTAL (UG/L)	L-UMW-6D	0.6293	76	89	No	23	4.348	n/a	n/a	0.02	NP
LITHIUM, TOTAL (UG/L)	**L-UMW-7D**	**0.9264**	**108**	**89**	**Yes**	**23**	**4.348**	**n/a**	**n/a**	**0.02**	**NP**
LITHIUM, TOTAL (UG/L)	L-UMW-8D	-1.593	-84	-89	No	23	0	n/a	n/a	0.02	NP
LITHIUM, TOTAL (UG/L)	L-UMW-9D	0.1974	42	89	No	23	0	n/a	n/a	0.02	NP
MERCURY, TOTAL (UG/L)	**L-UMW-1D**	**0.003584**	**75**	**58**	**Yes**	**17**	**100**	**n/a**	**n/a**	**0.02**	**NP**
MERCURY, TOTAL (UG/L)	**L-UMW-2D**	**0.003581**	**75**	**58**	**Yes**	**17**	**100**	**n/a**	**n/a**	**0.02**	**NP**
MERCURY, TOTAL (UG/L)	**L-UMW-3D**	**0.003593**	**87**	**63**	**Yes**	**18**	**100**	**n/a**	**n/a**	**0.02**	**NP**
MERCURY, TOTAL (UG/L)	**L-UMW-4D**	**0.003585**	**75**	**58**	**Yes**	**17**	**100**	**n/a**	**n/a**	**0.02**	**NP**
MERCURY, TOTAL (UG/L)	**L-UMW-5D**	**0.003584**	**75**	**58**	**Yes**	**17**	**100**	**n/a**	**n/a**	**0.02**	**NP**
MERCURY, TOTAL (UG/L)	**L-UMW-6D**	**0.003584**	**75**	**58**	**Yes**	**17**	**100**	**n/a**	**n/a**	**0.02**	**NP**
MERCURY, TOTAL (UG/L)	**L-UMW-7D**	**0.003582**	**75**	**58**	**Yes**	**17**	**100**	**n/a**	**n/a**	**0.02**	**NP**
MERCURY, TOTAL (UG/L)	**L-UMW-8D**	**0.003581**	**75**	**58**	**Yes**	**17**	**100**	**n/a**	**n/a**	**0.02**	**NP**
MERCURY, TOTAL (UG/L)	**L-UMW-9D**	**0.003581**	**75**	**58**	**Yes**	**17**	**100**	**n/a**	**n/a**	**0.02**	**NP**
MOLYBDENUM, TOTAL (UG/L)	L-UMW-1D	0.226	78	89	No	23	21.74	n/a	n/a	0.02	NP

Trend Test

Labadie E.C. Client: Ameren Data: LEC DATA Printed 3/17/2025, 11:09 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
MOLYBDENUM, TOTAL (UG/L)	**L-UMW-2D**	**-1.921**	**-173**	**-89**	**Yes**	**23**	**0**	**n/a**	**n/a**	**0.02**	**NP**
MOLYBDENUM, TOTAL (UG/L)	L-UMW-3D	8.087	85	95	No	24	0	n/a	n/a	0.02	NP
MOLYBDENUM, TOTAL (UG/L)	L-UMW-4D	12.67	60	89	No	23	0	n/a	n/a	0.02	NP
MOLYBDENUM, TOTAL (UG/L)	**L-UMW-5D**	**44.6**	**218**	**95**	**Yes**	**24**	**0**	**n/a**	**n/a**	**0.02**	**NP**
MOLYBDENUM, TOTAL (UG/L)	L-UMW-6D	-8.261	-73	-89	No	23	0	n/a	n/a	0.02	NP
MOLYBDENUM, TOTAL (UG/L)	L-UMW-7D	-12.03	-71	-89	No	23	0	n/a	n/a	0.02	NP
MOLYBDENUM, TOTAL (UG/L)	L-UMW-8D	0.3413	44	78	No	21	0	n/a	n/a	0.02	NP
MOLYBDENUM, TOTAL (UG/L)	L-UMW-9D	0	-6	-89	No	23	43.48	n/a	n/a	0.02	NP
Radium [226 + 228] (PCI/L)	L-UMW-1D	0.006763	18	84	No	22	18.18	n/a	n/a	0.02	NP
Radium [226 + 228] (PCI/L)	L-UMW-2D	0.01766	13	89	No	23	30.43	n/a	n/a	0.02	NP
Radium [226 + 228] (PCI/L)	L-UMW-3D	0.009319	11	95	No	24	75	n/a	n/a	0.02	NP
Radium [226 + 228] (PCI/L)	L-UMW-4D	0.02817	55	89	No	23	73.91	n/a	n/a	0.02	NP
Radium [226 + 228] (PCI/L)	L-UMW-5D	0.01673	34	78	No	21	100	n/a	n/a	0.02	NP
Radium [226 + 228] (PCI/L)	L-UMW-6D	-0.00...	-11	-89	No	23	60.87	n/a	n/a	0.02	NP
Radium [226 + 228] (PCI/L)	L-UMW-7D	0.02091	31	89	No	23	73.91	n/a	n/a	0.02	NP
Radium [226 + 228] (PCI/L)	L-UMW-8D	-0.1039	-85	-89	No	23	56.52	n/a	n/a	0.02	NP
Radium [226 + 228] (PCI/L)	L-UMW-9D	-0.00...	-33	-89	No	23	91.3	n/a	n/a	0.02	NP
SELENIUM, TOTAL (UG/L)	L-UMW-1D	0	11	73	No	20	95	n/a	n/a	0.02	NP
SELENIUM, TOTAL (UG/L)	L-UMW-2D	0	11	73	No	20	95	n/a	n/a	0.02	NP
SELENIUM, TOTAL (UG/L)	L-UMW-3D	0	11	78	No	21	57.14	n/a	n/a	0.02	NP
SELENIUM, TOTAL (UG/L)	L-UMW-4D	0	20	73	No	20	95	n/a	n/a	0.02	NP
SELENIUM, TOTAL (UG/L)	L-UMW-5D	0	50	73	No	20	60	n/a	n/a	0.02	NP
SELENIUM, TOTAL (UG/L)	L-UMW-6D	-0.00...	-24	-73	No	20	30	n/a	n/a	0.02	NP
SELENIUM, TOTAL (UG/L)	L-UMW-7D	0	9	73	No	20	85	n/a	n/a	0.02	NP
SELENIUM, TOTAL (UG/L)	L-UMW-8D	0	15	73	No	20	95	n/a	n/a	0.02	NP
SELENIUM, TOTAL (UG/L)	L-UMW-9D	0	13	73	No	20	100	n/a	n/a	0.02	NP
THALLIUM, TOTAL (UG/L)	L-UMW-1D	-0.01617	-48	-58	No	17	88.24	n/a	n/a	0.02	NP
THALLIUM, TOTAL (UG/L)	L-UMW-2D	-0.00...	-32	-58	No	17	100	n/a	n/a	0.02	NP
THALLIUM, TOTAL (UG/L)	L-UMW-3D	-0.00...	-32	-63	No	18	100	n/a	n/a	0.02	NP
THALLIUM, TOTAL (UG/L)	L-UMW-4D	-0.00...	-32	-58	No	17	100	n/a	n/a	0.02	NP
THALLIUM, TOTAL (UG/L)	L-UMW-5D	-0.00...	-32	-58	No	17	100	n/a	n/a	0.02	NP
THALLIUM, TOTAL (UG/L)	L-UMW-6D	-0.01837	-48	-58	No	17	94.12	n/a	n/a	0.02	NP
THALLIUM, TOTAL (UG/L)	L-UMW-7D	-0.00...	-32	-58	No	17	100	n/a	n/a	0.02	NP
THALLIUM, TOTAL (UG/L)	L-UMW-8D	-0.00...	-32	-58	No	17	100	n/a	n/a	0.02	NP
THALLIUM, TOTAL (UG/L)	L-UMW-9D	-0.00...	-32	-58	No	17	100	n/a	n/a	0.02	NP

Appendix C

April 2025 Assessment Monitoring Statistical Evaluation

Memorandum
September 10, 2025

To:	Bill Kutosky – Ameren Missouri	**Project Number:**	23007-25
CC:	Ameren Missouri - Susan Knowles, Craig Giesmann, Lisa Meyer, Austin Nieman		
From:	Rocksmith Geoengineering - Mark Haddock, P.E., R.G., Jeff Ingram, R.G., Grant Morey, R.G.	**Email:**	jeff.ingram@rocksmithgeo.com
RE:	**Assessment Monitoring Statistical Evaluation – LCPA Surface Impoundment Labadie Energy Center, Franklin County, Missouri**		

1.0 INTRODUCTION

This Technical Memorandum provides the results of the Assessment Monitoring Statistical Evaluation for the April 2025 and August 2025 sampling events at the LCPA Surface Impoundment at the Labadie Energy Center located in Franklin County, Missouri. Included in the memorandum is a summary of constituents that are present at a Statistically Significant Level (SSL), a list of site-specific Groundwater Protection Standards (**Table 1**), and the Sanitas Technologies™ (Sanitas) statistical software outputs for each of the Appendix IV parameters.

2.0 STATISTICAL EVALUATION

The Appendix IV constituents were evaluated for SSLs using the methods and procedures outlined in the Statistical Analysis Plan (SAP). In addition to outliers noted in previous Assessment Monitoring statistical evaluations, the following outlier was removed from the dataset prior to the calculation of confidence limits:

- Arsenic
    - L-UMW-1D at 69.5 micrograms per liter (µg/L) on 11/7/2018: result is statistically higher than other arsenic values at the same monitoring well. This higher result is not consistent with previous or subsequent arsenic values at the well and is an outlier.

An analysis of the outliers removed from the dataset to date was completed. The following previously identified outlier was added back into the dataset prior to subsequent statistical analysis:

- Radium 226 + 228
    - L-UMW-5D at 2.01 picocuries per liter (pCi/L) on 9/9/2016: removed during the statistical evaluation for the April 2022 sampling event because the result was statically higher than other radium results at the same monitoring well. Based on subsequent sampling results, the high result was confirmed, and the result is no longer an outlier.

Assessment monitoring data for the LCPA has been collected since March 2016, prior to closure of the unit. Closure of the LCPA was initiated in September 2019 and substantially completed on December 30, 2020 with the installation of a geomembrane cover system. Previous statistical evaluations for the LCPA incorporated all available assessment monitoring data (except outliers) into the calculation of confidence intervals and trends for

SSL determination. The United States Environmental Protection Agency (USEPA) Unified Guidance (Chapter 7, USEPA, 2009) offers guidance on accounting for temporal shifts in compliance point (well) data. In instances where data is shifted at a well (e.g., due to plume movement or remedial measures) older data may not accurately represent present conditions and may bias calculated confidence limits used for SSL determination. By constraining statistical testing to data collected after an identified shift, the statistical power of the tests improves.

To account for potential shifts in constituent concentrations because of closure activities, Mann-Whitney tests were conducted to compare data collected prior to closure (2016 – 2020) and post-closure (2021 – present). Mann-Whitney test outputs are included in **Appendix A** and results are summarized in **Table 2**. For well-constituent pairs identified as having a statistically significant dissimilarity (alpha=0.05) in concentrations pre- and post-closure, confidence intervals (**Appendix B**) and trends (**Appendix C**) were calculated using only the data collected post-closure (2021 – present). Confidence intervals and trends were calculated using all available data (except outliers) for well-constituent pairs having no statistical dissimilarity between pre- and post-closure data or when all available data is below the practical quantitation limit (PQL).

Based on the results from the confidence interval and trend analysis, molybdenum has displayed a significant decreasing trend at L-UMW-7D and is no longer an SSL. Other molybdenum SSLs identified in the statistical evaluation for the October-November 2024 sampling event remain. SSLs at the LCPA Surface Impoundment as of August 2025 are as follows:

- Molybdenum at L-UMW-3D(R), L-UMW-4D, L-UMW-5D, and L-UMW-6D

3.0 CLOSING

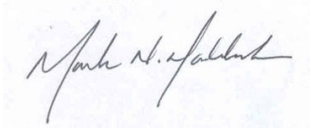
Rocksmith appreciates this opportunity to provide hydrogeological and engineering support services to Ameren. If you have any questions or comments regarding the information provided, please contact the undersigned.

Sincerely,

Rocksmith Geoengineering, LLC



Jeff Ingram, R.G.
Senior Geologist, Partner



Mark Haddock, P.E., R.G.
Principal Engineer, Senior Partner

Attachments

Tables

Table 1 – LCPA Groundwater Protection Standards

Table 2 – Intrawell Mann-Whitney Analysis

Appendices

Appendix A – Sanitas Mann-Whitney Analysis Outputs

Appendix B – Sanitas Confidence Interval Statistical Output

Appendix C – Sanitas Trending Confidence Bands Statistical Output

Tables

Table 1 - LCPA Groundwater Protection Standards
LCPA Surface Impoundment
Labadie Energy Center, Franklin County, MO

Parameter	Units	MCL or Health Based GWPS	Site GWPS	Value to Return to Detection Monitoring [6]
Antimony	µg/L	6	6	DQR
Arsenic	µg/L	10	44.2	44.2
Barium	µg/L	2000	2000	1290
Beryllium	µg/L	4	4	DQR
Cadmium	µg/L	5	5	DQR
Chromium	µg/L	100	100	1.2
Cobalt	µg/L	6	6	DQR
Fluoride	mg/L	4	4	0.29
Lead	µg/L	15	15	DQR
Lithium	µg/L	40	47.4	47.4
Mercury	µg/L	2	2	DQR
Molybdenum	µg/L	100	100	DQR
Radium 226 + 228	pCi/L	5	5	4.14
Selenium	µg/L	50	50	DQR
Thallium	µg/L	2	2	DQR

Notes:

1. µg/L - micrograms per liter.

2. mg/L - milligrams per liter.

3. pCi/L - picocuries per liter.

4. MCL - Maximum Contaminant Level. MCLs from United States Environmental Protection Agency (USEPA) National Primary Drinking Water Regulations. Updated December 12, 2024 at https://www.epa.gov/ground-water-and-drinking-water/national-primary-drinking-water-regulations

5. Health Based Groundwater Protection Standards (GWPS) were adoped for Appendix IV parameters without an MCL (i.e. cobalt, lithium, molybdenum, and lead). Information available at https://www.epa.gov/coalash/coal-ash-rule.

6. Values were calculated using statistical methods outlined for Detection Monitoring and are used for returning to Detection Monitoring based on available data to date.

7. DQR - Double Quantification Rule. If all baseline data are less than the Practical Quantitation Limit (PQL), then the DQR will be used. More information on the DQR is provided in the Statistical Analysis Plan.

8. Site GWPS is either the MCL/Health Based GWPS or based on background levels (calculated as described in the Statistical Analysis Plan for Assessment Monitoring), whichever is higher.

9. GWPS and background values calculated using results through August 2025 from monitoring wells BMW-1D and BMW-2D.

ROCKSMITH GEOENGINEERING

Prepared by: JTR
Checked by: GTM
Reviewed by: MNH

Table 2 - Intrawell Mann-Whitney Analysis
LCPA Surface Impoundment
Labadie Energy Center, Franklin County, MO

Constituent Name	Monitoring Well								
	UMW-1D	UMW-2D	UMW-3D(R)	UMW-4D	UMW-5D	UMW-6D	UMW-7D	UMW-8D	UMW-9D
	Significant Dissimilarity (Alpha=0.05)								
ANTIMONY, TOTAL	<PQL	<PQL	<PQL	<PQL	<PQL	<PQL	<PQL	<PQL	<PQL
ARSENIC, TOTAL	Yes	Yes	Yes	<PQL	No	No	Yes	No	Yes
BARIUM, TOTAL	Yes	Yes	Yes	No	Yes	Yes	No	Yes	Yes
BERYLLIUM, TOTAL	<PQL	<PQL	<PQL	<PQL	<PQL	<PQL	<PQL	<PQL	<PQL
CADMIUM, TOTAL	<PQL	<PQL	<PQL	<PQL	<PQL	<PQL	<PQL	<PQL	<PQL
CHROMIUM, TOTAL	<PQL	<PQL	<PQL	<PQL	<PQL	<PQL	<PQL	No	Yes
COBALT, TOTAL	<PQL	<PQL	<PQL	<PQL	<PQL	<PQL	<PQL	<PQL	<PQL
FLUORIDE, TOTAL	No	Yes	No	Yes	Yes	Yes	Yes	No	No
LEAD, TOTAL	<PQL	<PQL	<PQL	<PQL	<PQL	<PQL	<PQL	<PQL	<PQL
LITHIUM, TOTAL	Yes	Yes	No	Yes	No	Yes	Yes	Yes	No
MERCURY, TOTAL	<PQL	<PQL	<PQL	<PQL	<PQL	<PQL	<PQL	<PQL	<PQL
MOLYBDENUM, TOTAL	<PQL	Yes	Yes	Yes	Yes	Yes	Yes	<PQL	<PQL
RADIUM 226 + 228	No	No	No	No	No	No	No	Yes	No
SELENIUM, TOTAL	<PQL	<PQL	<PQL	<PQL	<PQL	<PQL	<PQL	<PQL	<PQL
THALLIUM, TOTAL	<PQL	<PQL	<PQL	<PQL	<PQL	<PQL	<PQL	<PQL	<PQL

Notes:
1) Mann-Whitney tests performed for each Appendix IV constituent at each monitoring well comparing data collected before closure of the RCPA CCR Unit (2016 - 2020) and post-closure (2021 - Present).
2) Yellow highlighted "Yes" indicates a statistical dissimilarity at the alpha 0.05 level between results collected before closure and post-closure. Data collected post-closure (excluding outliers) is used to calculate confidence intervals and trends.
3) "No" indicates no statistical dissimilarity at the alpha 0.05 level between results collected before closure and post-closure. All available data (excluding outliers) is used to calculate confidence intervals and trends.
4) "<PQL" / "<MDC" indicates all available results (excluding outliers) are below the Practical Quantitation Limit (PQL) or Minimum Detectable Concentration (MDC). All available data (excluding outliers) is used to calculate confidence intervals and trends.
5) NA - not applicable. Radium 226 + 228 is not reported with a PQL but rather an MDC.

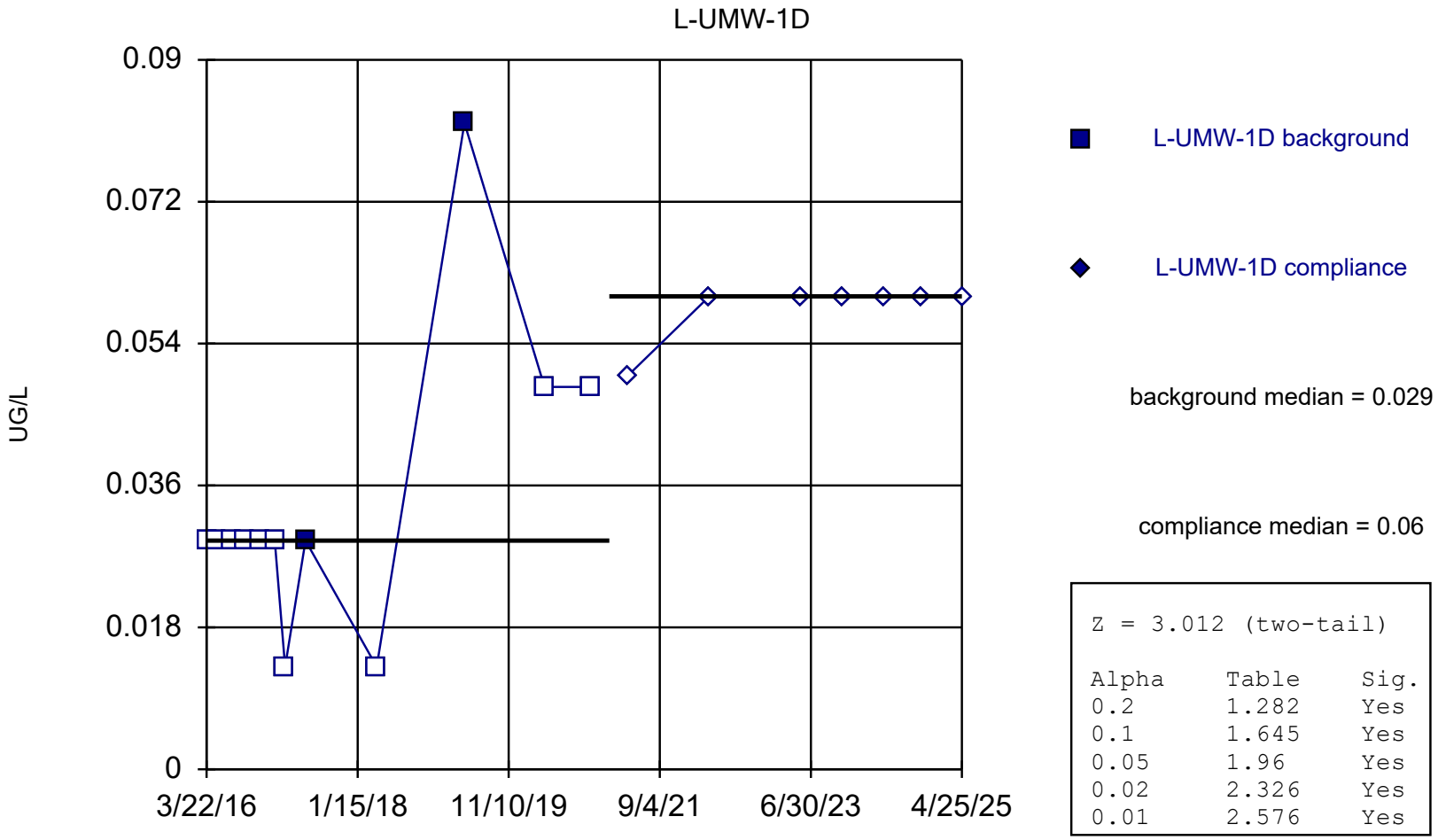
ROCKSMITH GEOENGINEERING

Prepared by: GTM
Checked by: JTR
Reviewed by: JSI

Appendix A
Sanitas Mann-Whitney Analysis Outputs

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)



Z = 3.012 (two-tail)

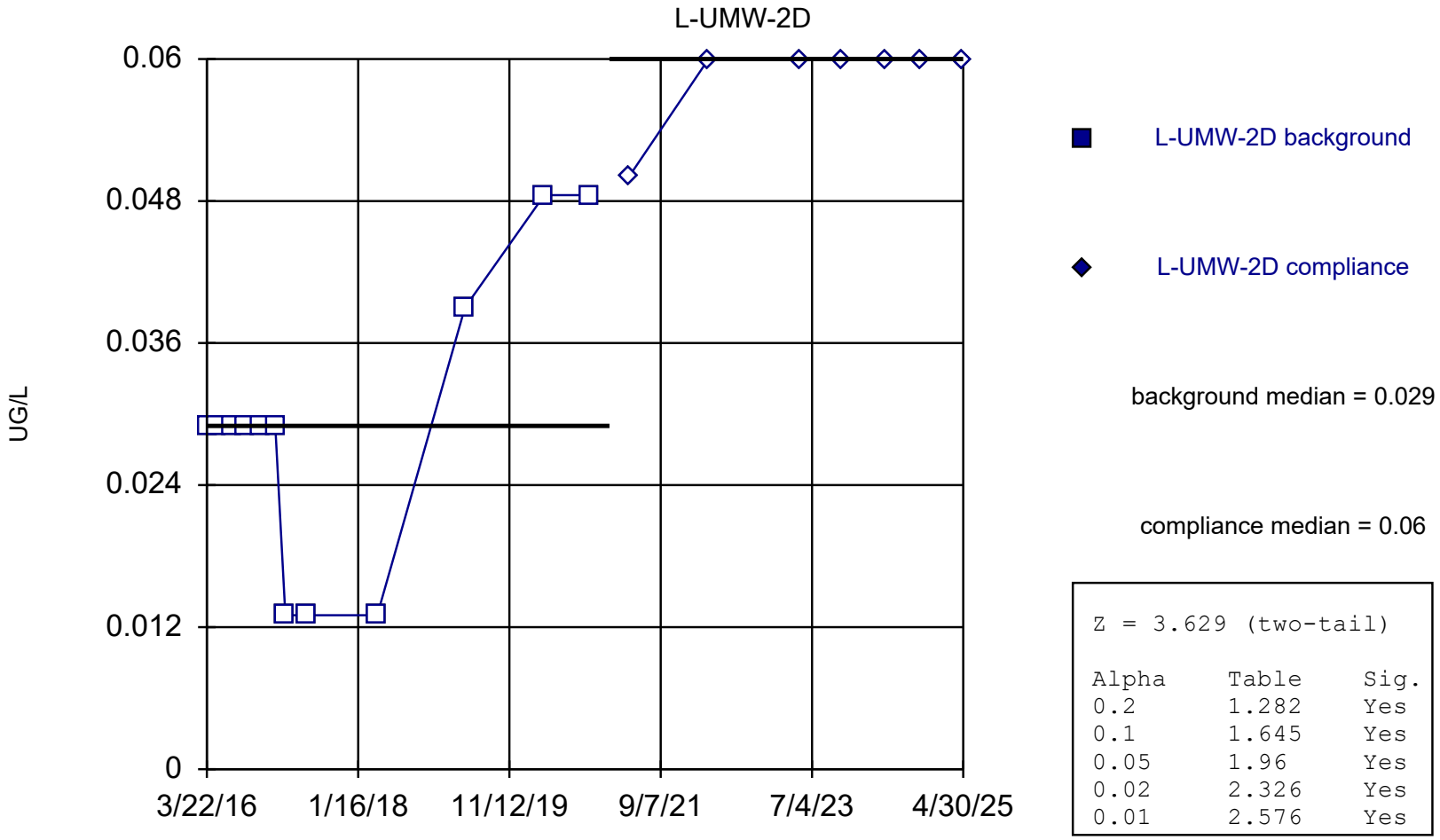
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	Yes
0.02	2.326	Yes
0.01	2.576	Yes

Constituent: ANTIMONY, TOTAL Analysis Run 8/27/2025 3:54 PM

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)



Z = 3.629 (two-tail)

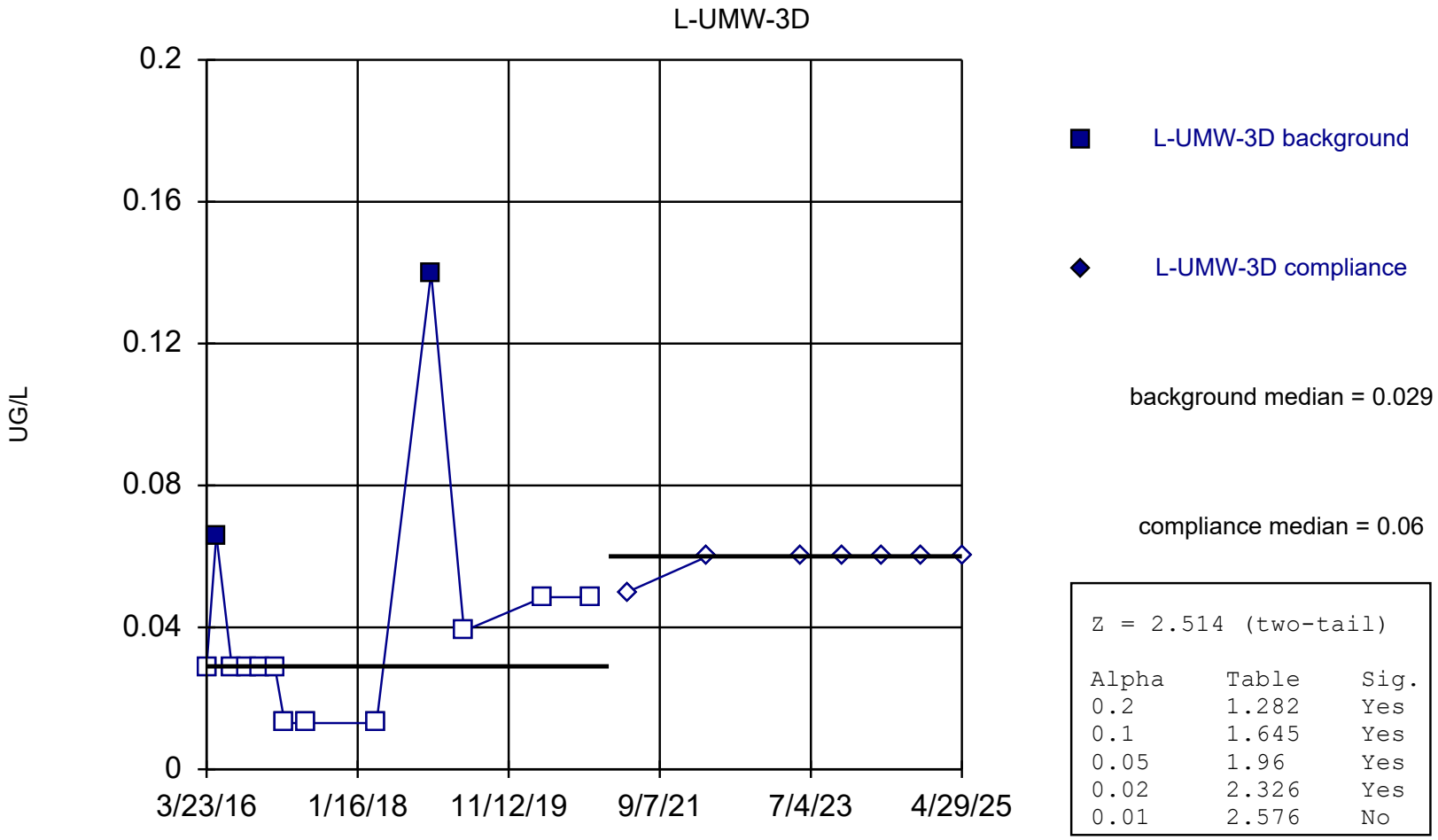
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	Yes
0.02	2.326	Yes
0.01	2.576	Yes

Constituent: ANTIMONY, TOTAL Analysis Run 8/27/2025 3:54 PM

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)



Z = 2.514 (two-tail)

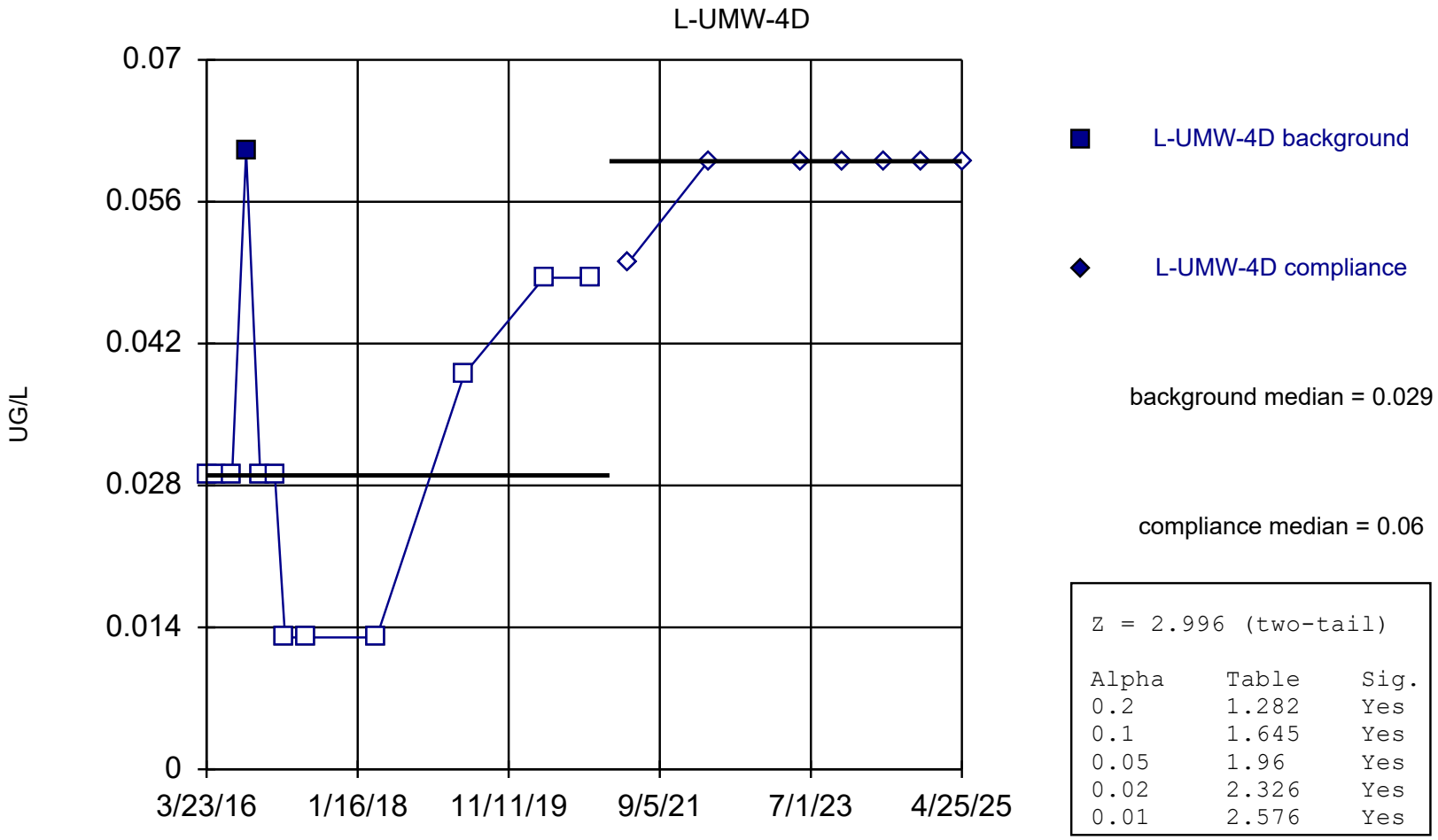
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	Yes
0.02	2.326	Yes
0.01	2.576	No

Constituent: ANTIMONY, TOTAL Analysis Run 8/27/2025 3:54 PM

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)



Z = 2.996 (two-tail)

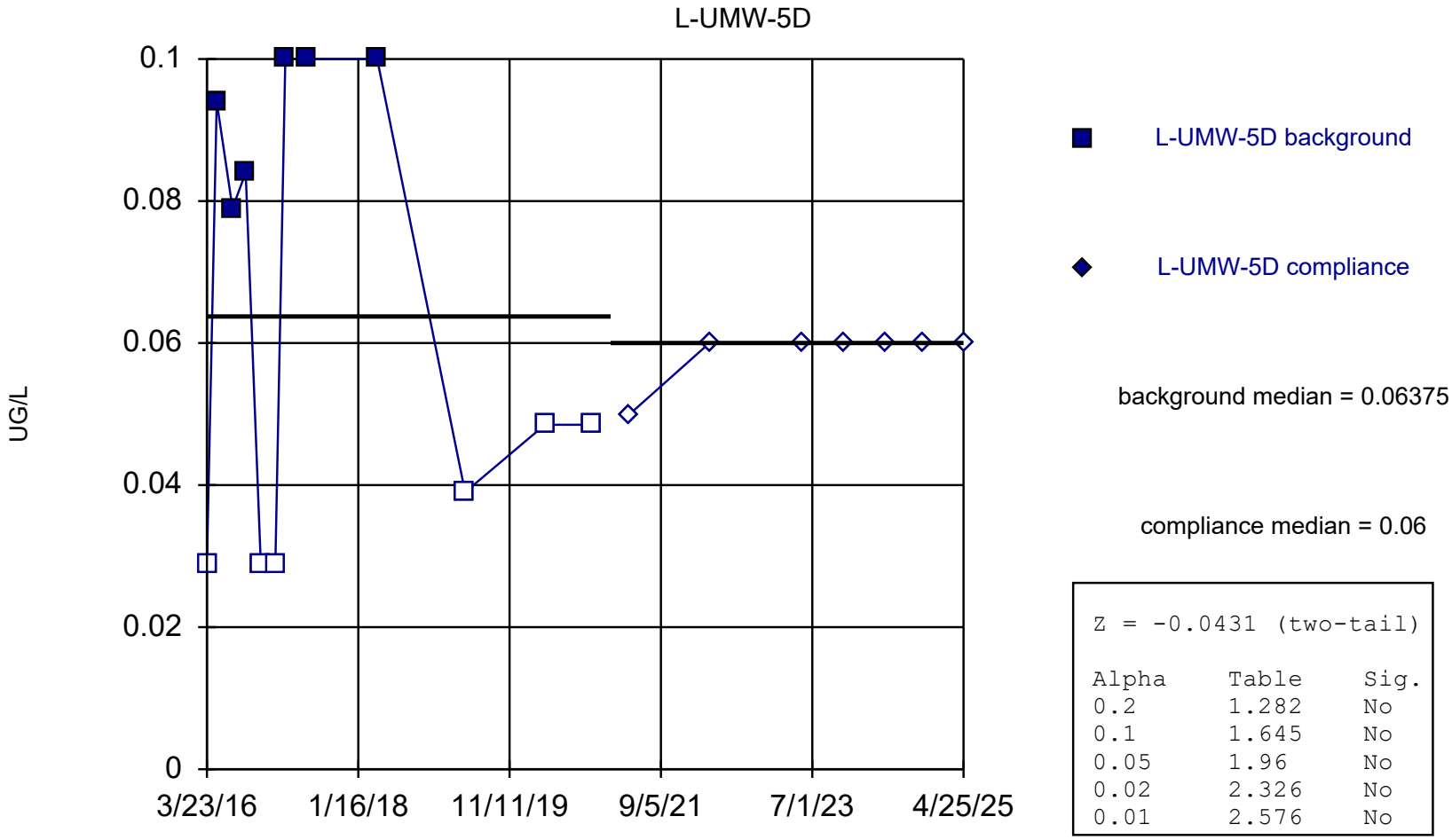
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	Yes
0.02	2.326	Yes
0.01	2.576	Yes

Constituent: ANTIMONY, TOTAL Analysis Run 8/27/2025 3:54 PM

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)



Z = -0.0431 (two-tail)

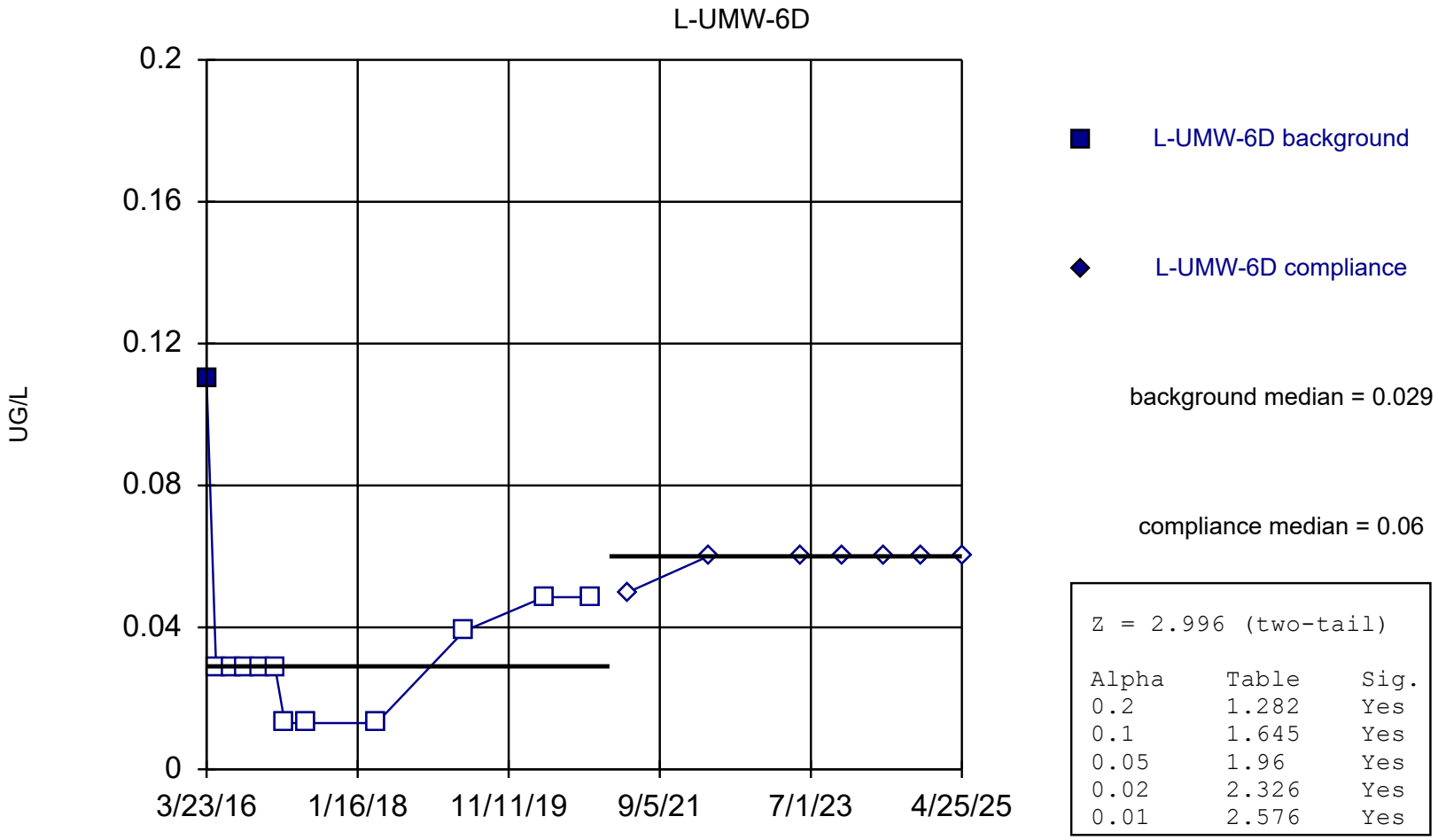
Alpha	Table	Sig.
0.2	1.282	No
0.1	1.645	No
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: ANTIMONY, TOTAL Analysis Run 8/27/2025 3:54 PM

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)



Z = 2.996 (two-tail)

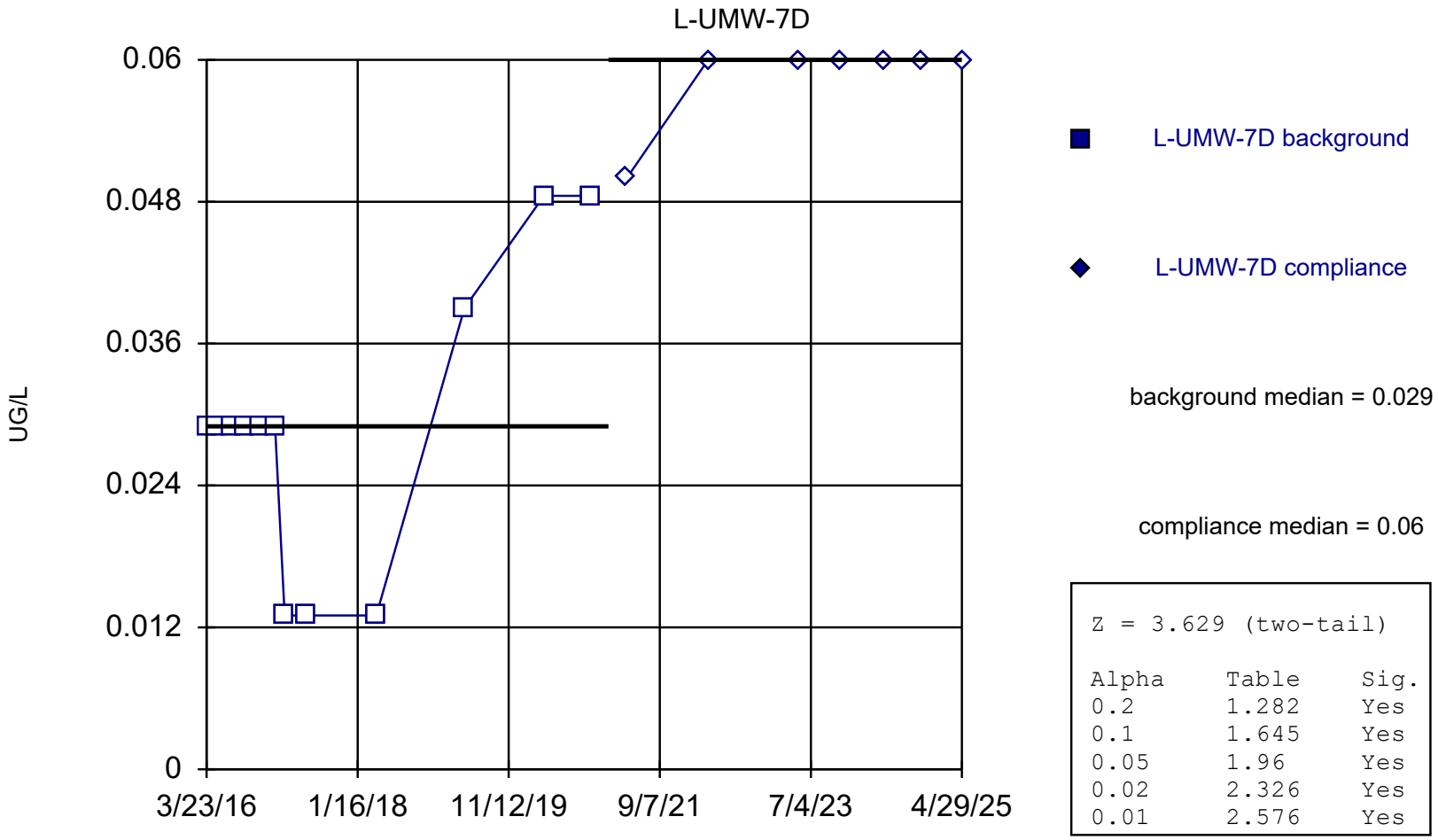
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	Yes
0.02	2.326	Yes
0.01	2.576	Yes

Constituent: ANTIMONY, TOTAL Analysis Run 8/27/2025 3:54 PM

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)



Z = 3.629 (two-tail)

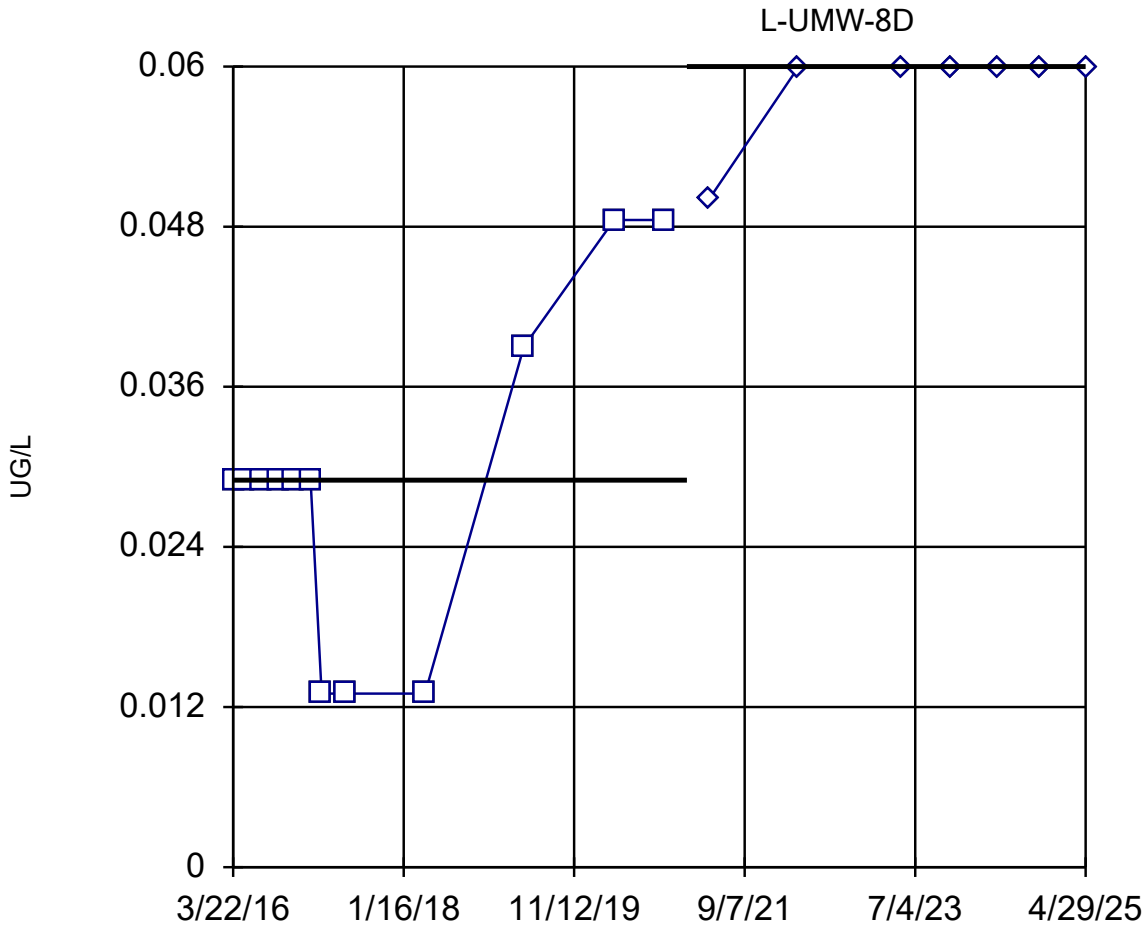
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	Yes
0.02	2.326	Yes
0.01	2.576	Yes

Constituent: ANTIMONY, TOTAL Analysis Run 8/27/2025 3:54 PM

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)



L-UMW-8D background

L-UMW-8D compliance

background median = 0.029

compliance median = 0.06

Z = 3.629 (two-tail)

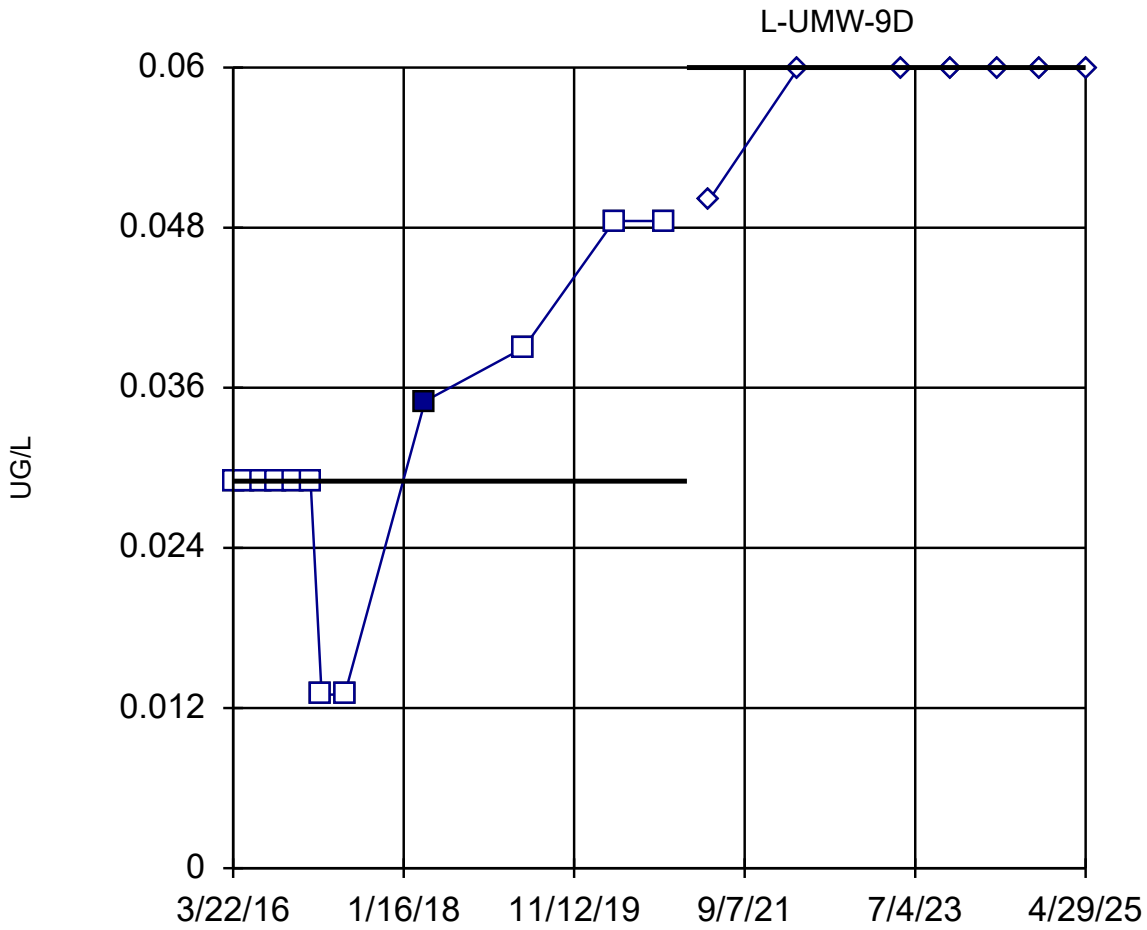
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	Yes
0.02	2.326	Yes
0.01	2.576	Yes

Constituent: ANTIMONY, TOTAL Analysis Run 8/27/2025 3:54 PM

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)



L-UMW-9D background

L-UMW-9D compliance

background median = 0.029

compliance median = 0.06

Z = 3.624 (two-tail)

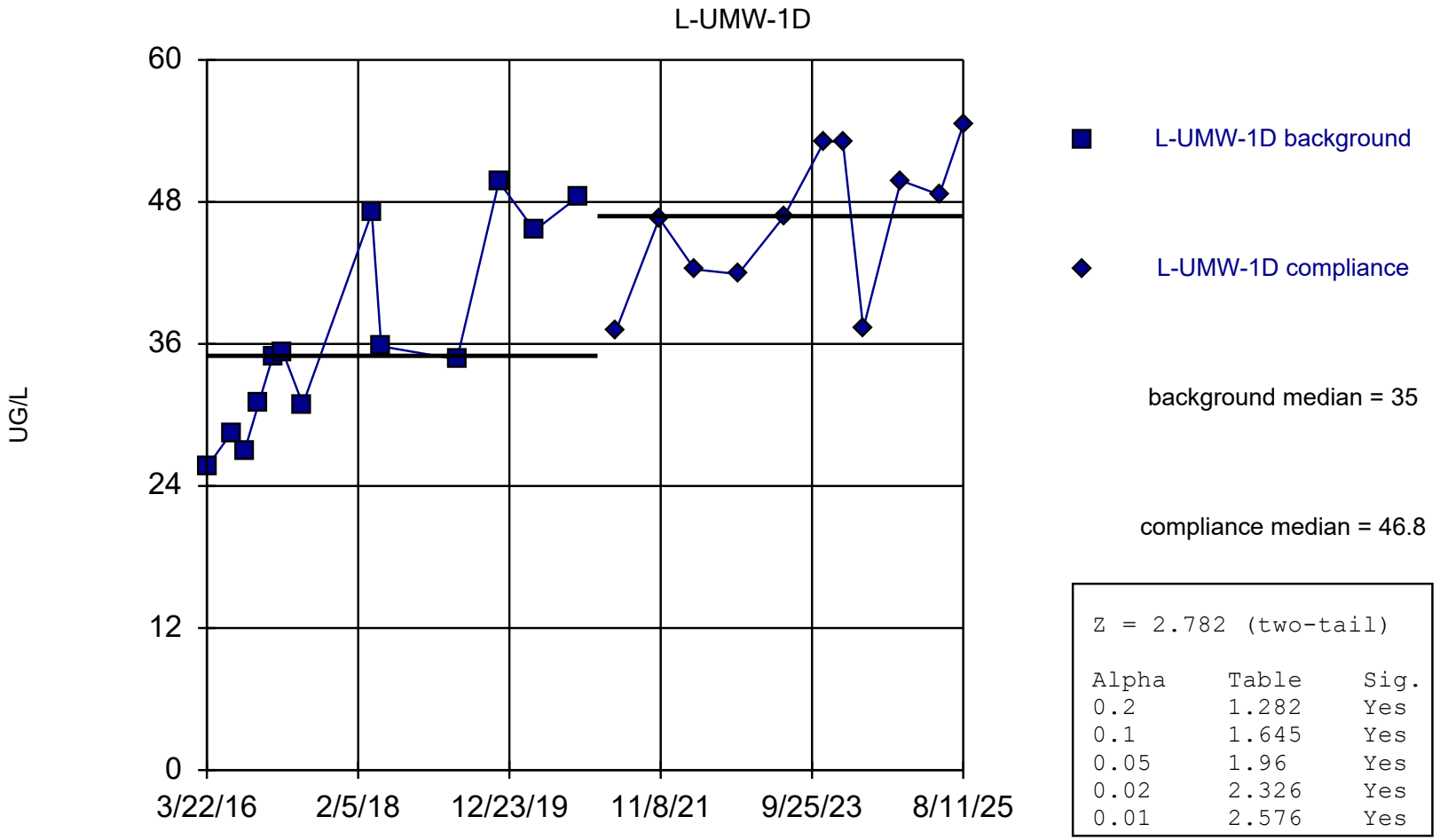
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	Yes
0.02	2.326	Yes
0.01	2.576	Yes

Constituent: ANTIMONY, TOTAL Analysis Run 8/27/2025 3:54 PM

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG

Mann-Whitney (Wilcoxon Rank Sum)



Z = 2.782 (two-tail)

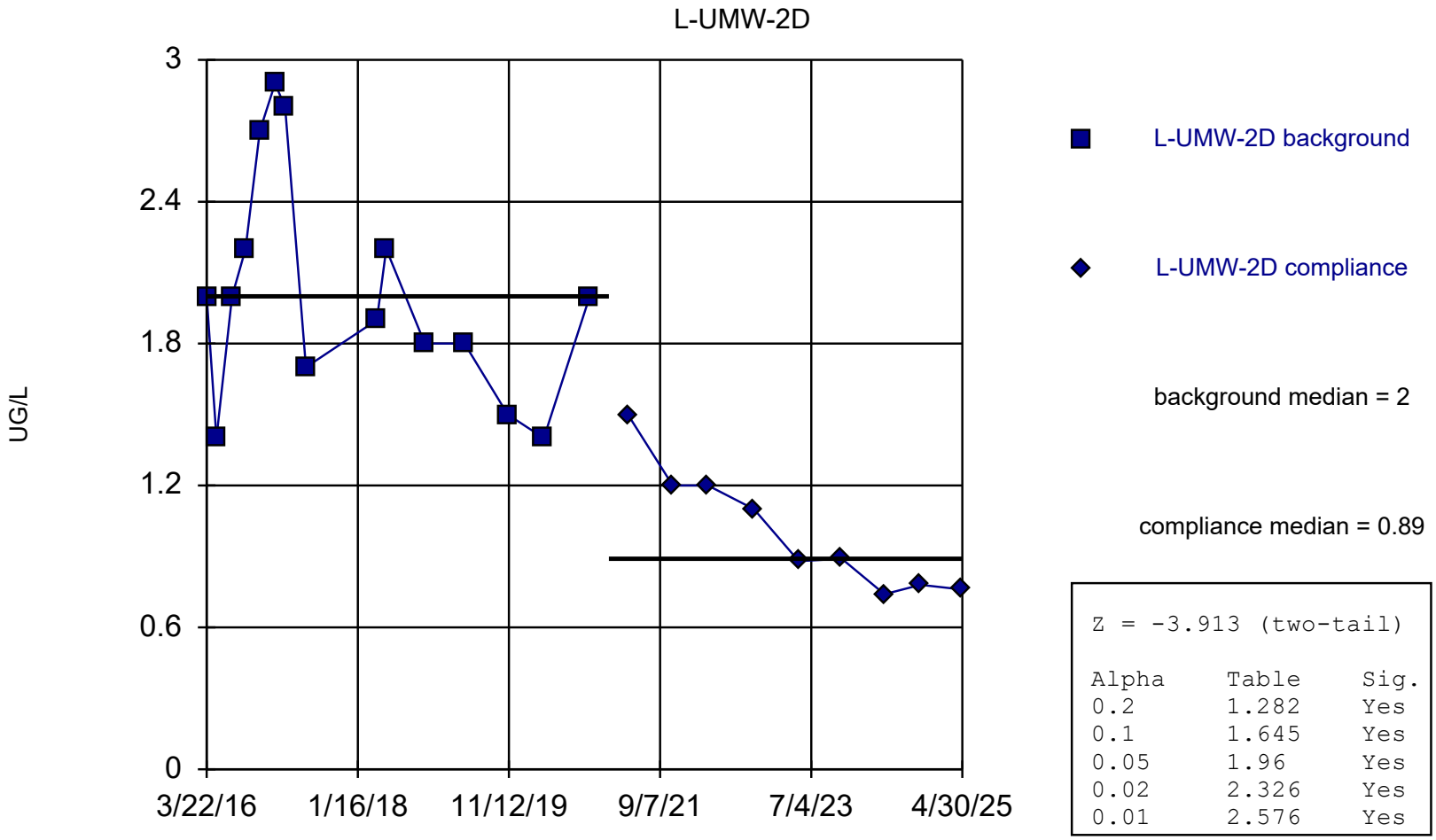
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	Yes
0.02	2.326	Yes
0.01	2.576	Yes

Constituent: ARSENIC, TOTAL Analysis Run 8/27/2025 3:54 PM

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG

Mann-Whitney (Wilcoxon Rank Sum)



Z = -3.913 (two-tail)

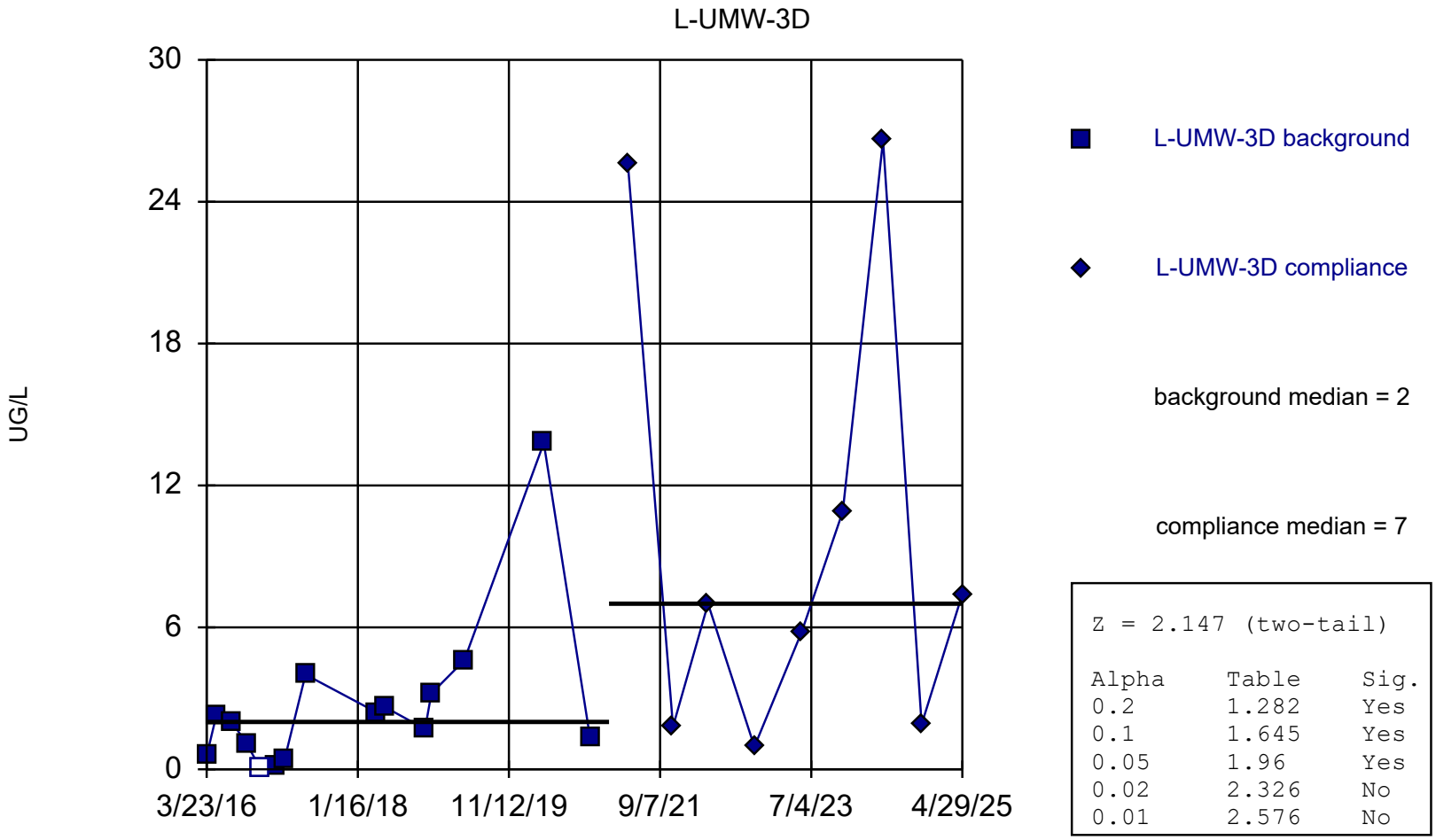
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	Yes
0.02	2.326	Yes
0.01	2.576	Yes

Constituent: ARSENIC, TOTAL Analysis Run 8/27/2025 3:54 PM

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)



Z = 2.147 (two-tail)

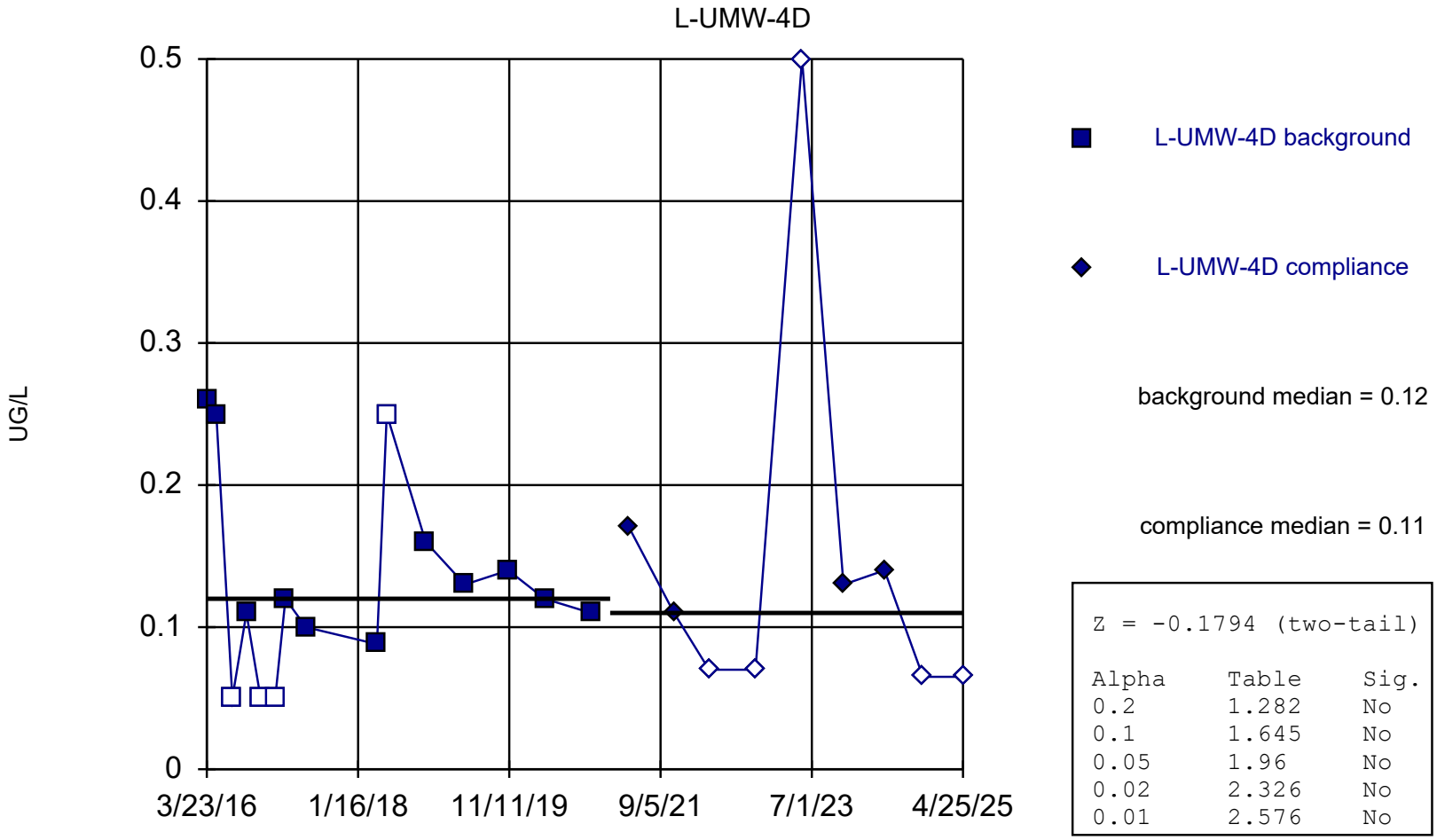
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	Yes
0.02	2.326	No
0.01	2.576	No

Constituent: ARSENIC, TOTAL Analysis Run 8/27/2025 3:54 PM

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)



Z = -0.1794 (two-tail)

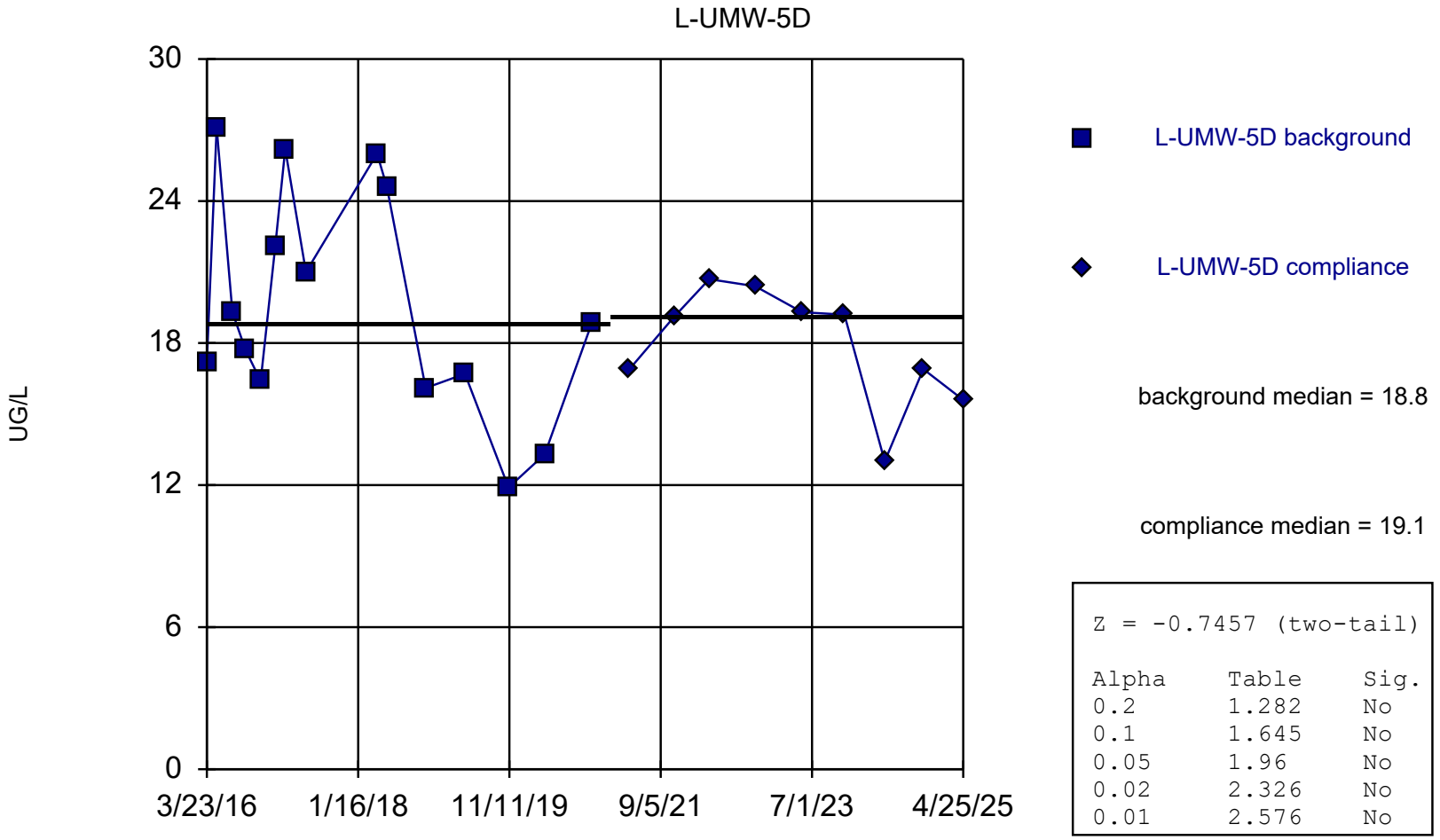
Alpha	Table	Sig.
0.2	1.282	No
0.1	1.645	No
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: ARSENIC, TOTAL Analysis Run 8/27/2025 3:54 PM

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG

Mann-Whitney (Wilcoxon Rank Sum)



Z = -0.7457 (two-tail)

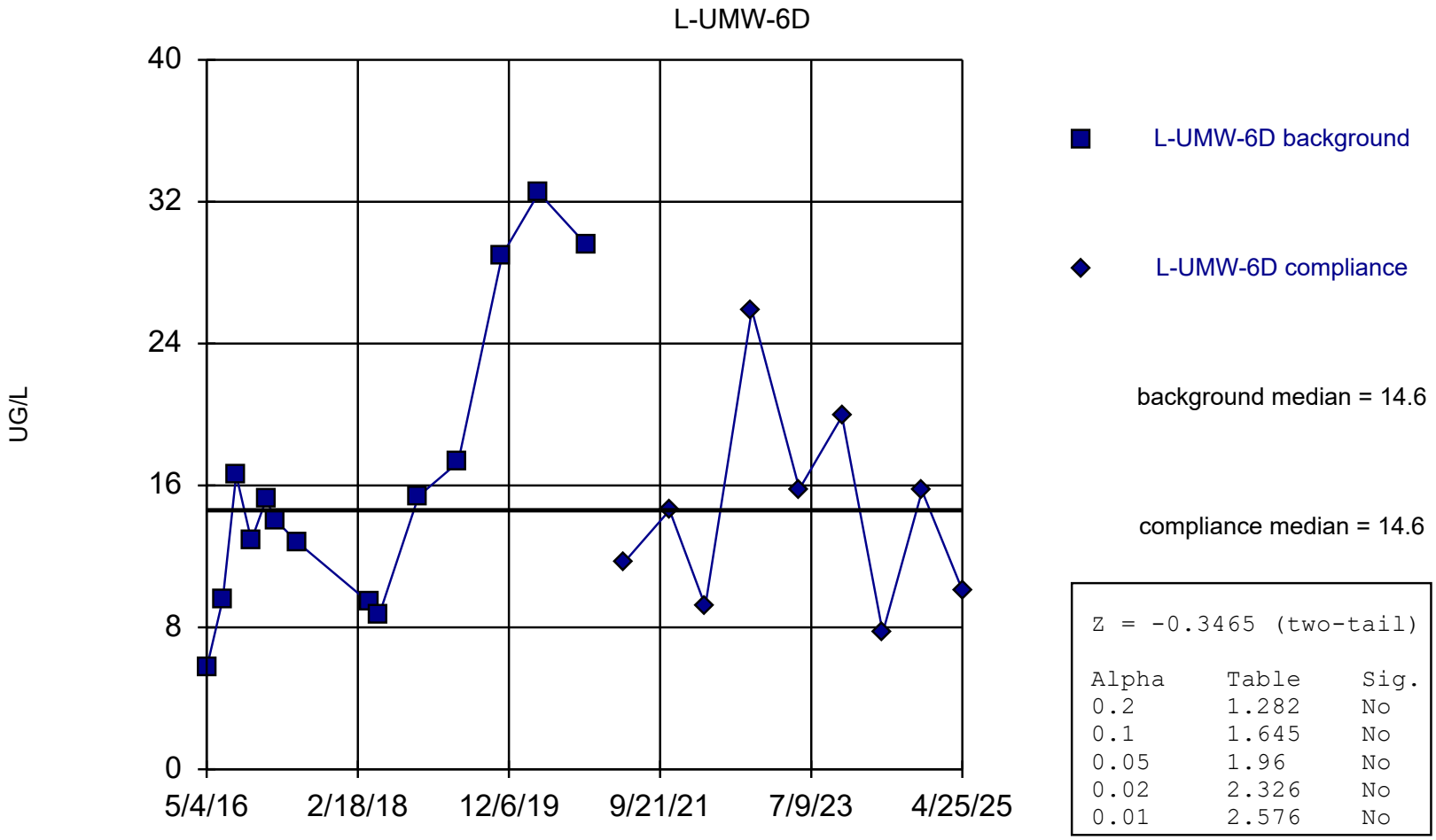
Alpha	Table	Sig.
0.2	1.282	No
0.1	1.645	No
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: ARSENIC, TOTAL Analysis Run 8/27/2025 3:54 PM

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG

Mann-Whitney (Wilcoxon Rank Sum)



Z = -0.3465 (two-tail)

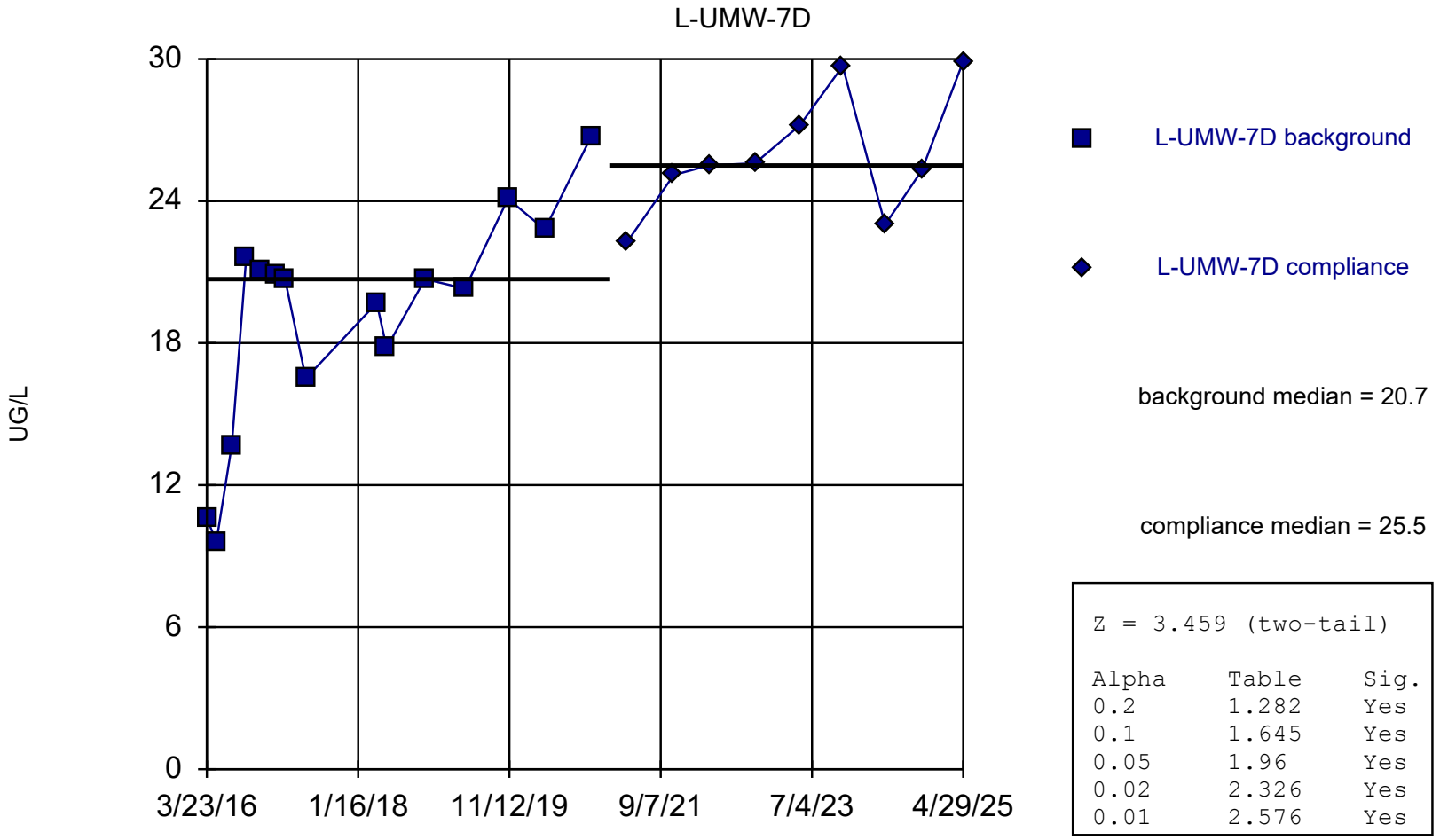
Alpha	Table	Sig.
0.2	1.282	No
0.1	1.645	No
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: ARSENIC, TOTAL Analysis Run 8/27/2025 3:54 PM

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG

Mann-Whitney (Wilcoxon Rank Sum)



Z = 3.459 (two-tail)

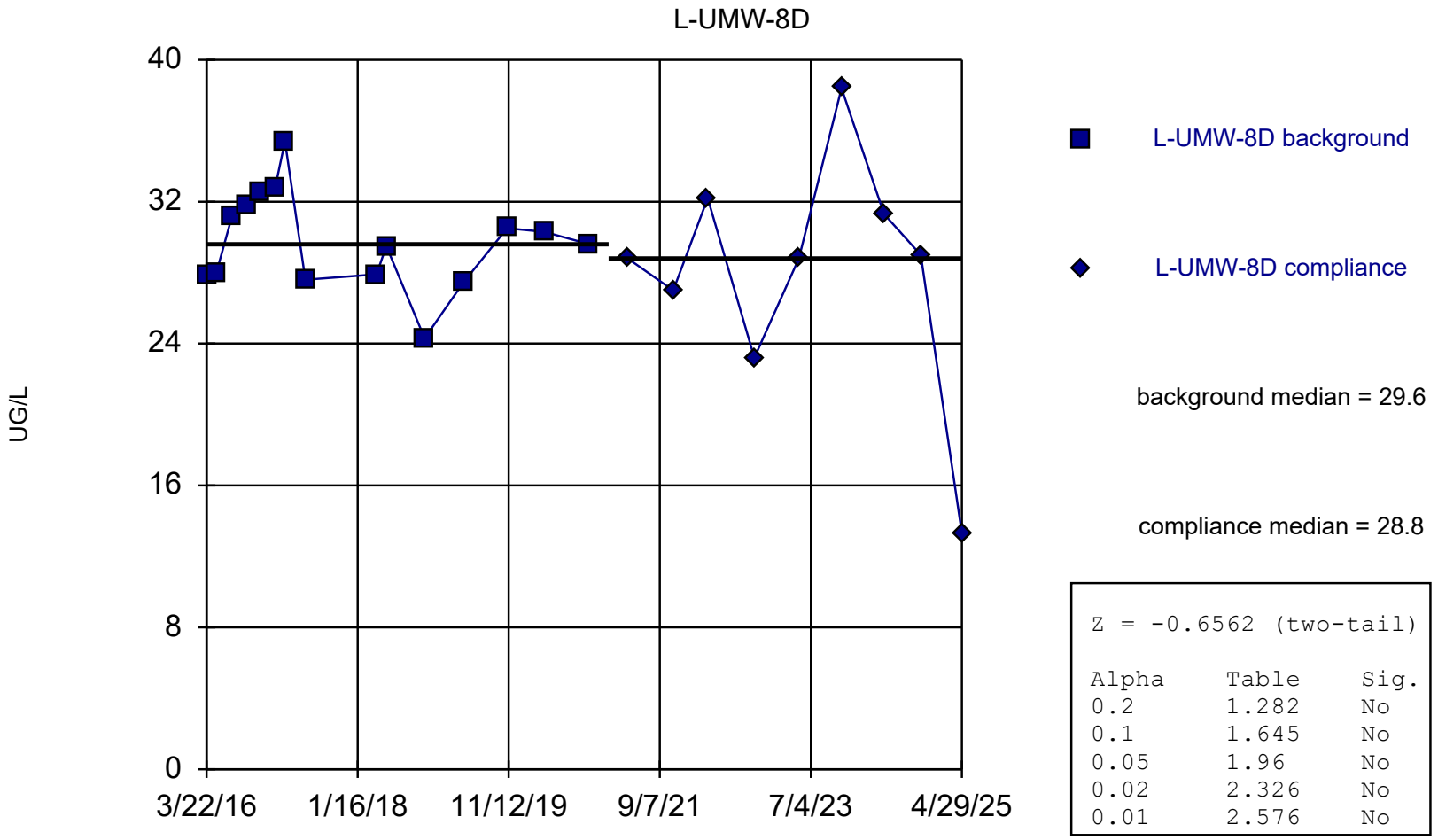
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	Yes
0.02	2.326	Yes
0.01	2.576	Yes

Constituent: ARSENIC, TOTAL Analysis Run 8/27/2025 3:54 PM

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG

Mann-Whitney (Wilcoxon Rank Sum)



Z = -0.6562 (two-tail)

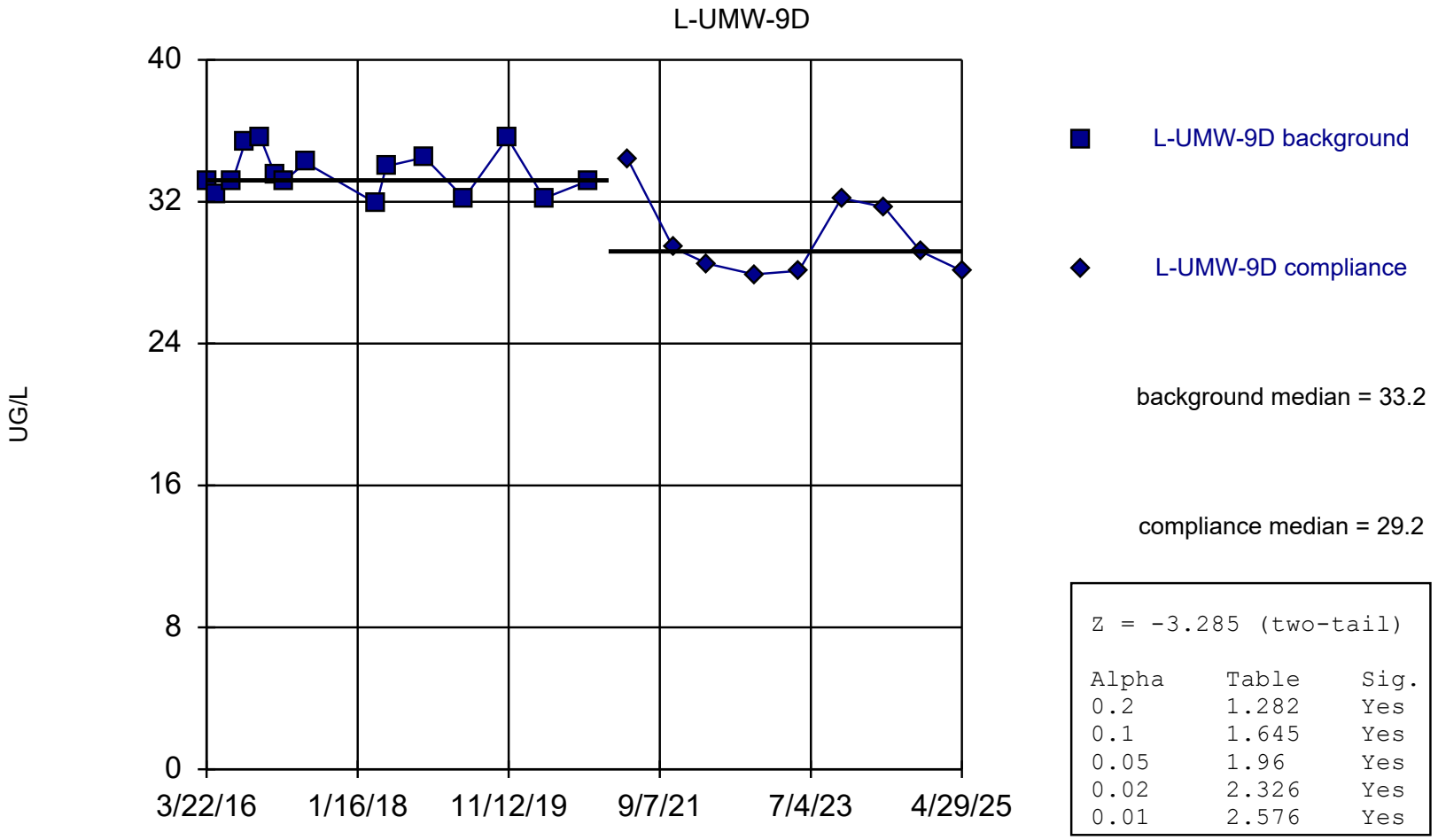
Alpha	Table	Sig.
0.2	1.282	No
0.1	1.645	No
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: ARSENIC, TOTAL Analysis Run 8/27/2025 3:54 PM

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG

Mann-Whitney (Wilcoxon Rank Sum)



Z = -3.285 (two-tail)

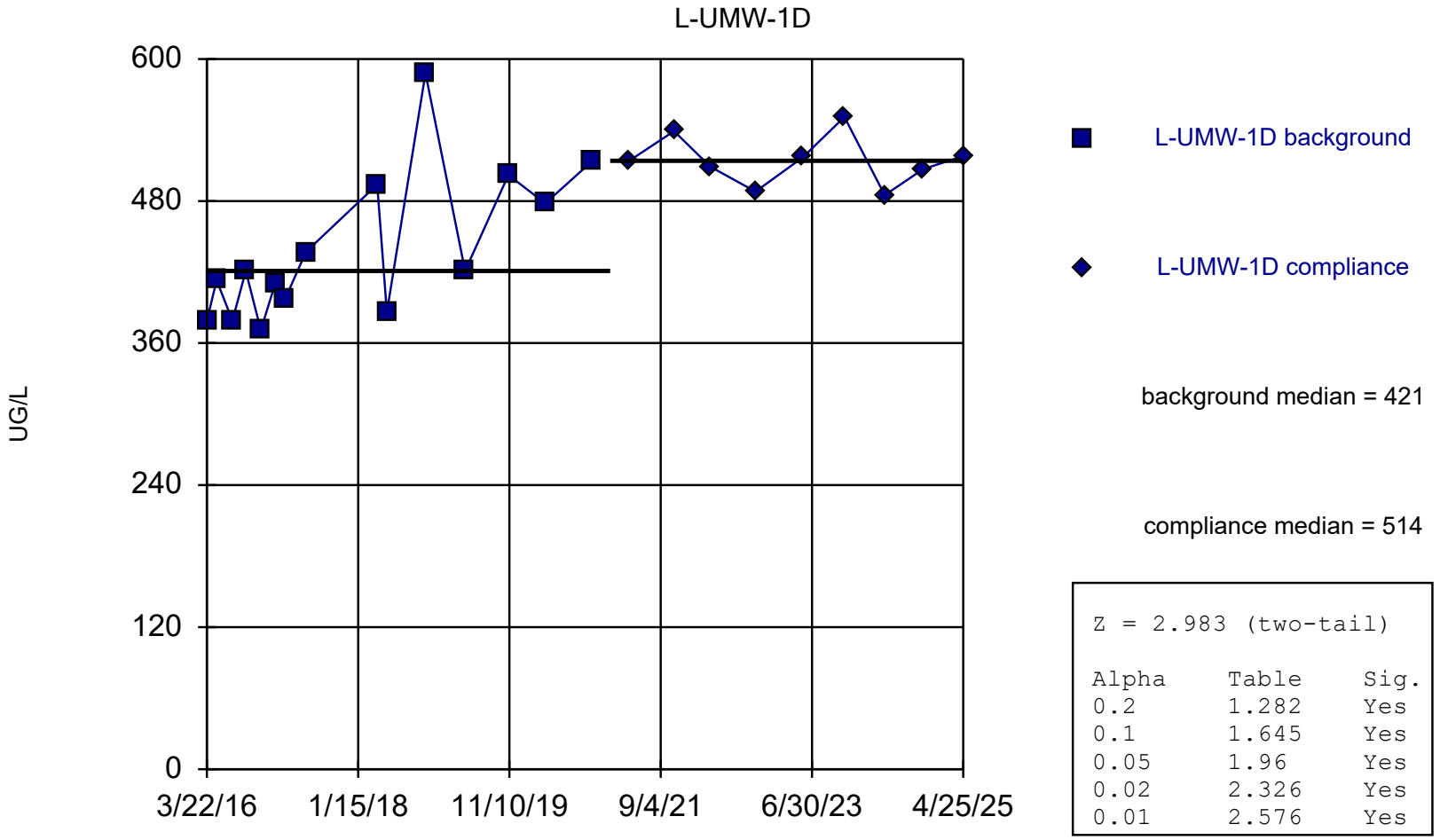
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	Yes
0.02	2.326	Yes
0.01	2.576	Yes

Constituent: ARSENIC, TOTAL Analysis Run 8/27/2025 3:54 PM

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG

Mann-Whitney (Wilcoxon Rank Sum)



Z = 2.983 (two-tail)

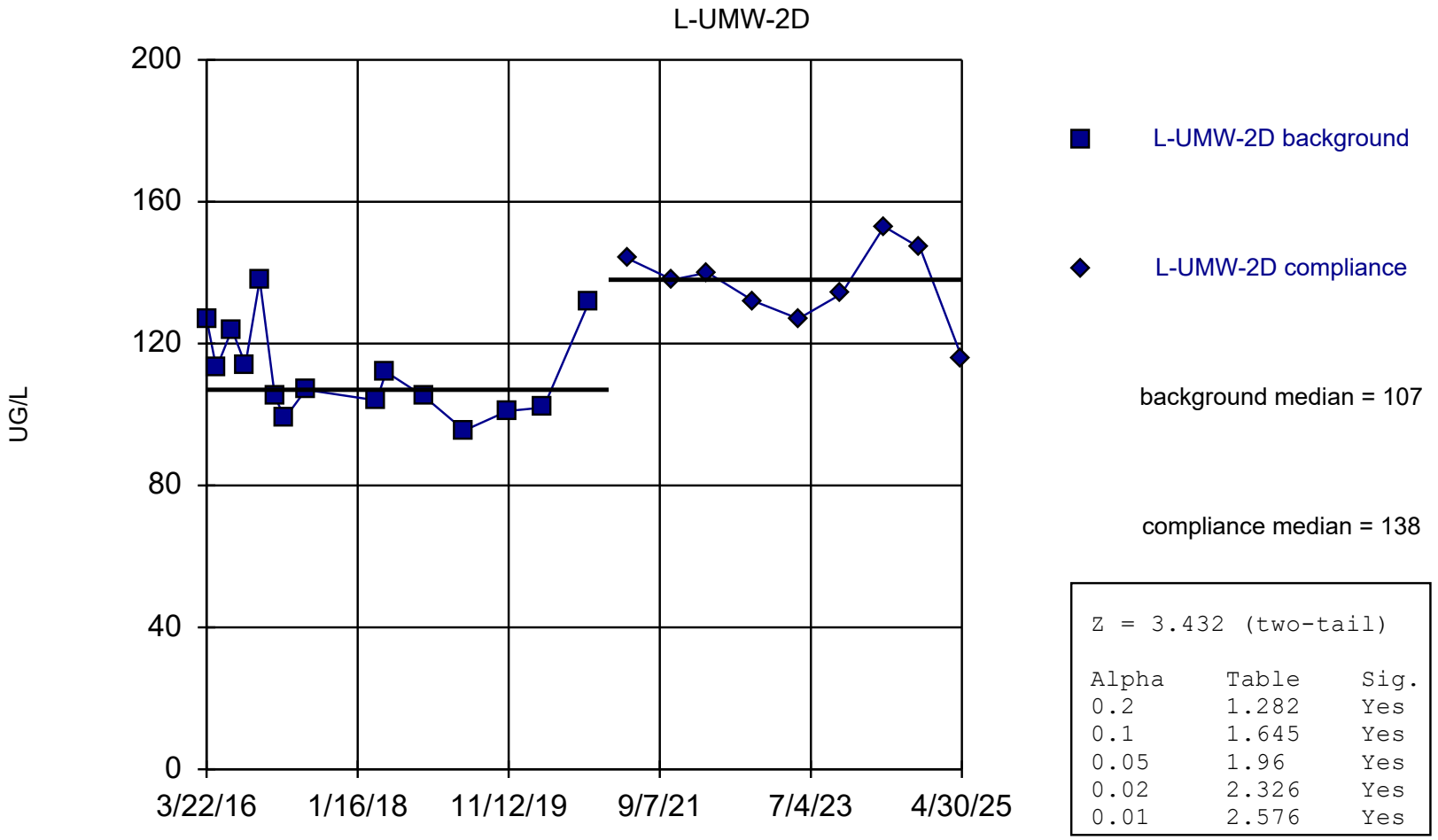
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	Yes
0.02	2.326	Yes
0.01	2.576	Yes

Constituent: BARIUM, TOTAL Analysis Run 8/27/2025 3:54 PM

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG

Mann-Whitney (Wilcoxon Rank Sum)



Z = 3.432 (two-tail)

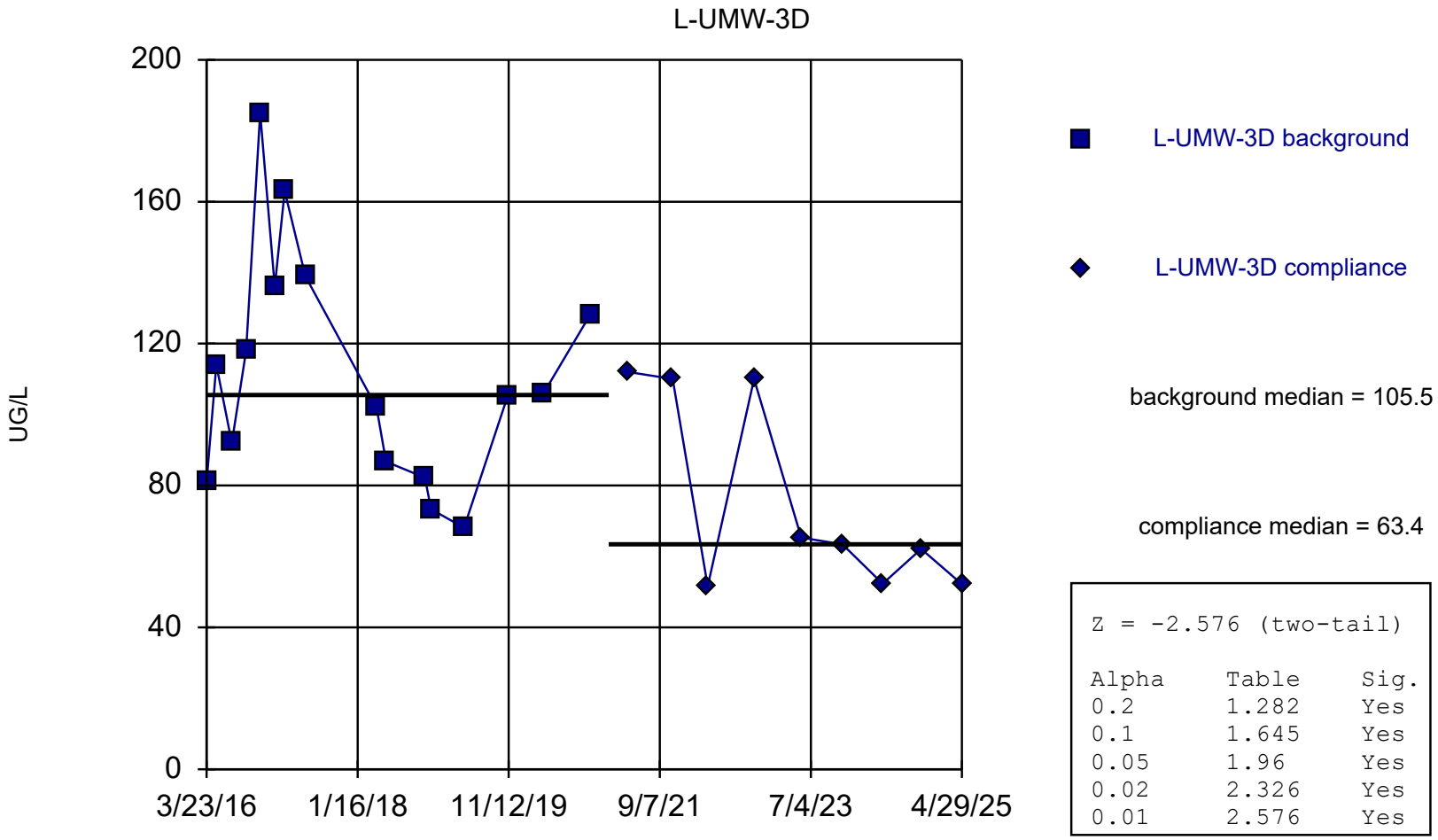
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	Yes
0.02	2.326	Yes
0.01	2.576	Yes

Constituent: BARIUM, TOTAL Analysis Run 8/27/2025 3:54 PM

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG

Mann-Whitney (Wilcoxon Rank Sum)



Z = -2.576 (two-tail)

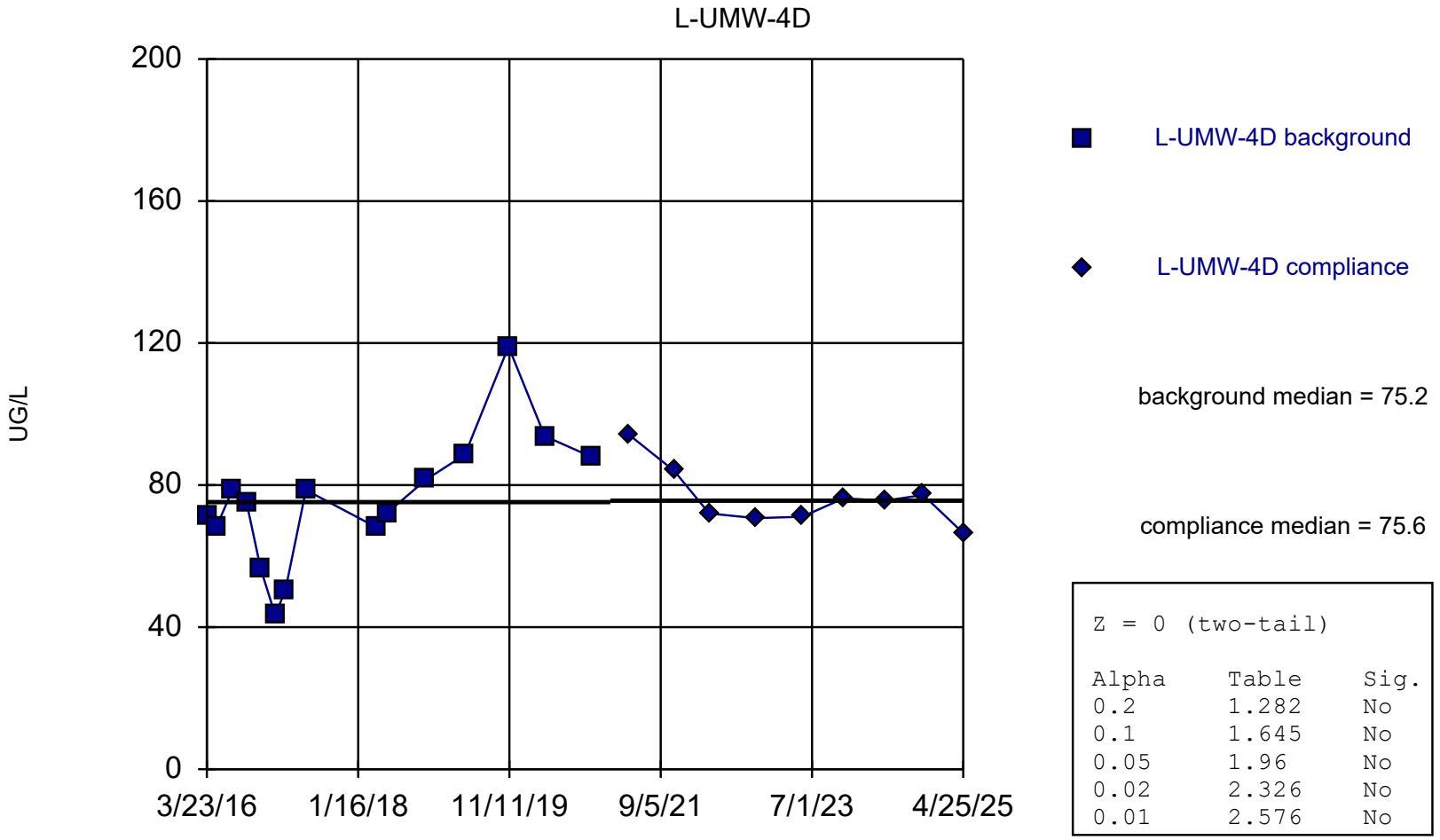
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	Yes
0.02	2.326	Yes
0.01	2.576	Yes

Constituent: BARIUM, TOTAL Analysis Run 8/27/2025 3:54 PM

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG

Mann-Whitney (Wilcoxon Rank Sum)



Z = 0 (two-tail)

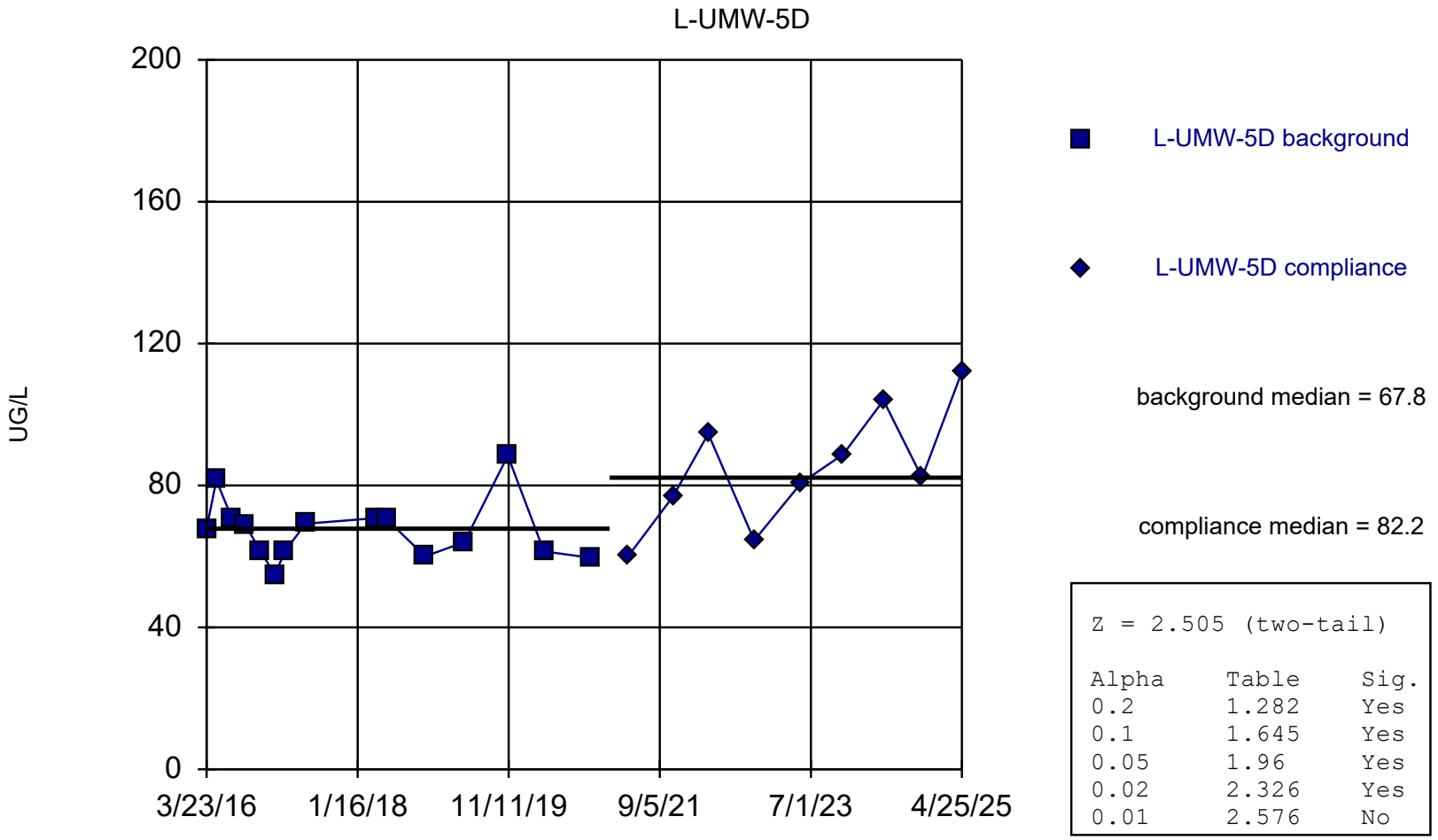
Alpha	Table	Sig.
0.2	1.282	No
0.1	1.645	No
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: BARIUM, TOTAL Analysis Run 8/27/2025 3:54 PM

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG

Mann-Whitney (Wilcoxon Rank Sum)



Z = 2.505 (two-tail)

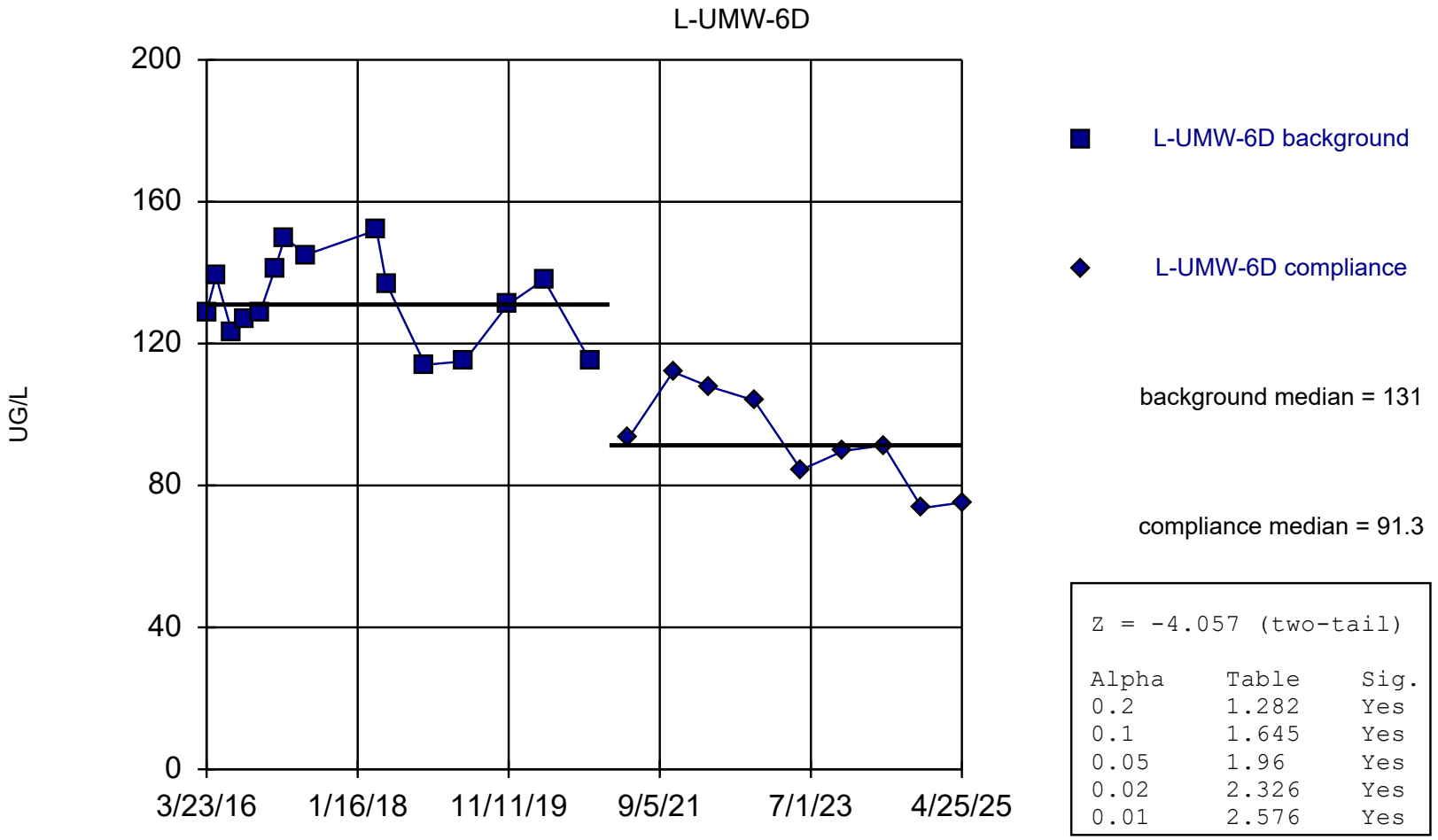
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	Yes
0.02	2.326	Yes
0.01	2.576	No

Constituent: BARIUM, TOTAL Analysis Run 8/27/2025 3:54 PM

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG

Mann-Whitney (Wilcoxon Rank Sum)



Z = -4.057 (two-tail)

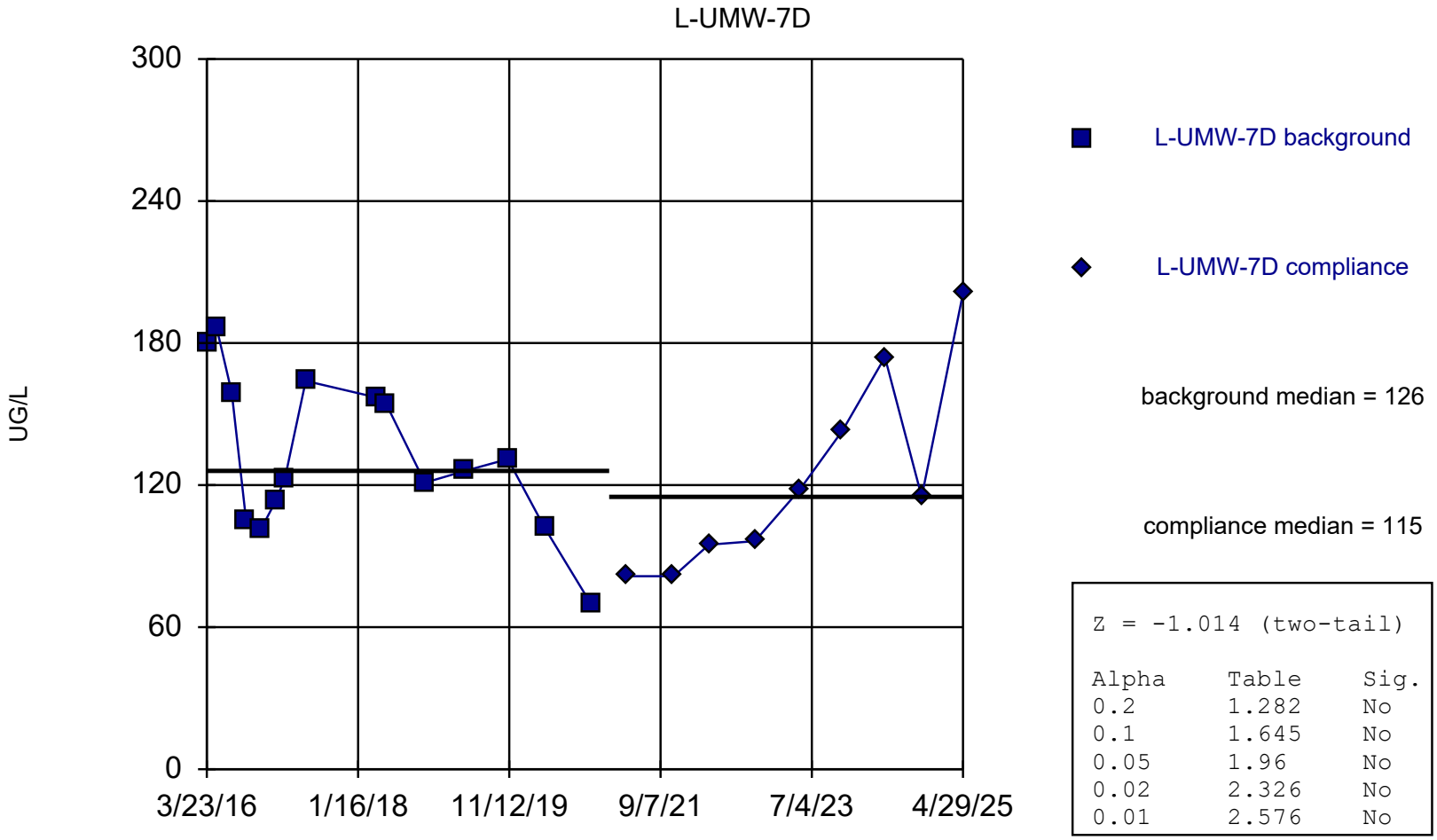
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	Yes
0.02	2.326	Yes
0.01	2.576	Yes

Constituent: BARIUM, TOTAL Analysis Run 8/27/2025 3:54 PM

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG

Mann-Whitney (Wilcoxon Rank Sum)



Z = -1.014 (two-tail)

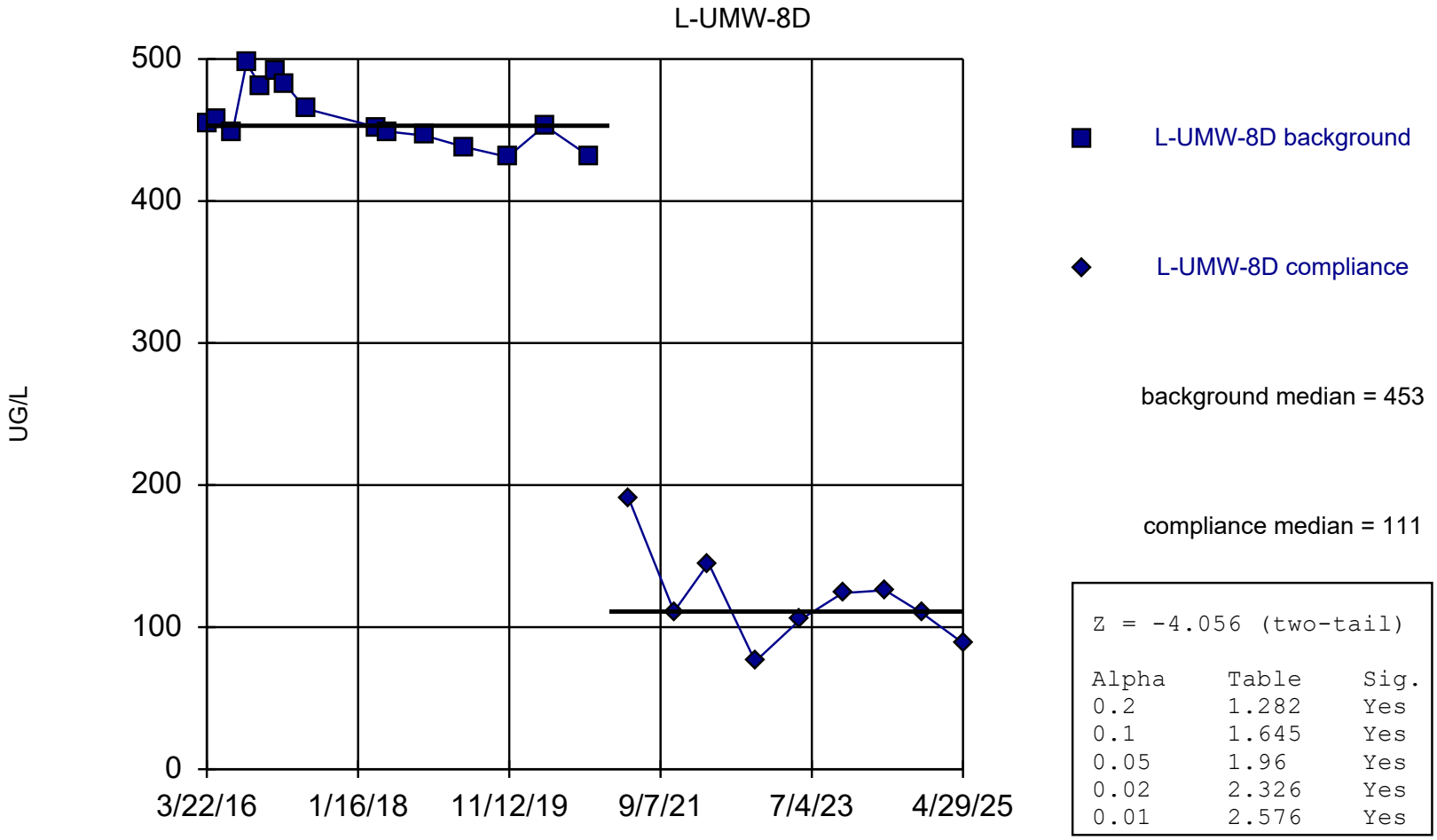
Alpha	Table	Sig.
0.2	1.282	No
0.1	1.645	No
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: BARIUM, TOTAL Analysis Run 8/27/2025 3:54 PM

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG

Mann-Whitney (Wilcoxon Rank Sum)



Z = -4.056 (two-tail)

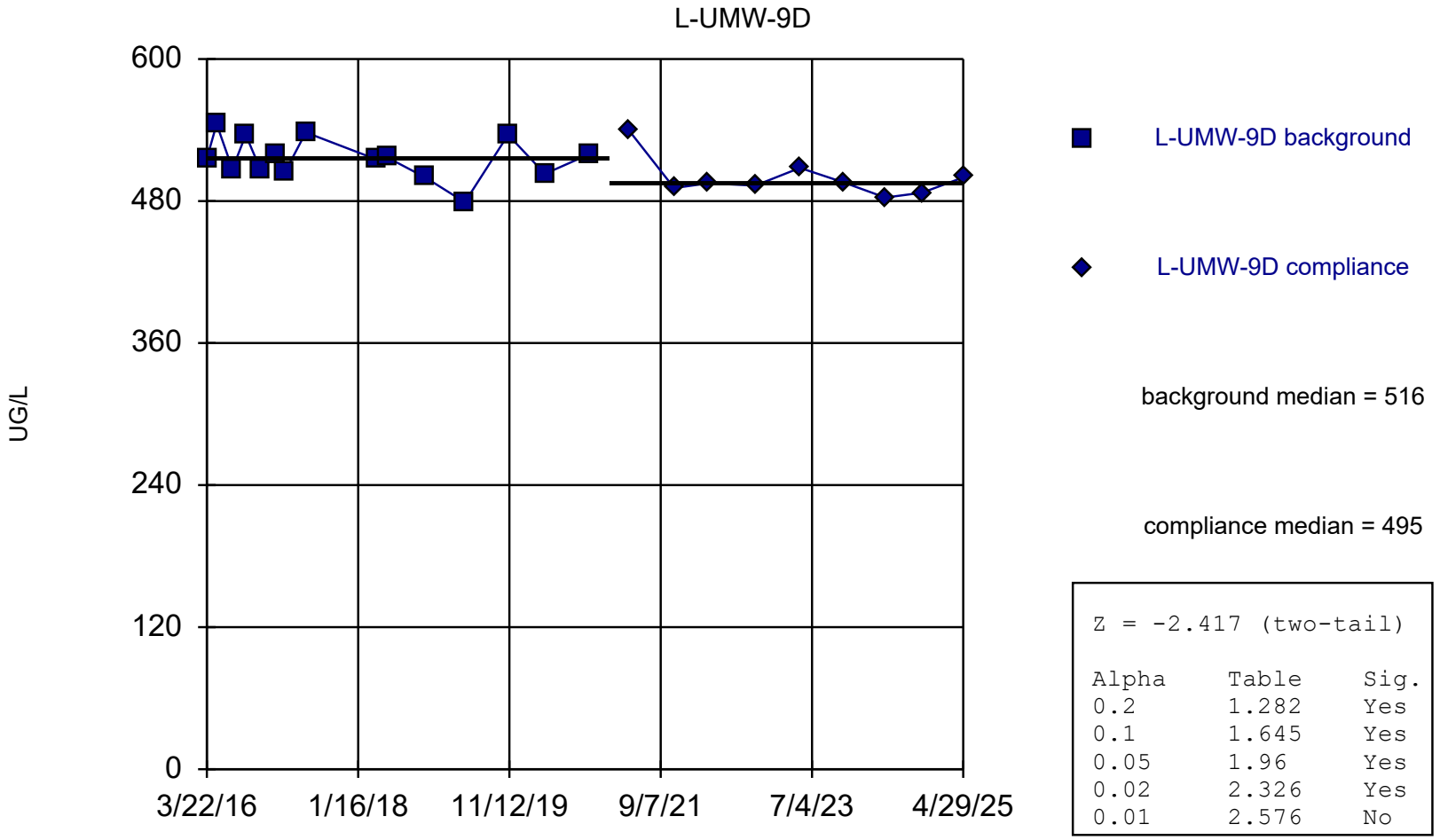
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	Yes
0.02	2.326	Yes
0.01	2.576	Yes

Constituent: BARIUM, TOTAL Analysis Run 8/27/2025 3:54 PM

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG

Mann-Whitney (Wilcoxon Rank Sum)



Z = -2.417 (two-tail)

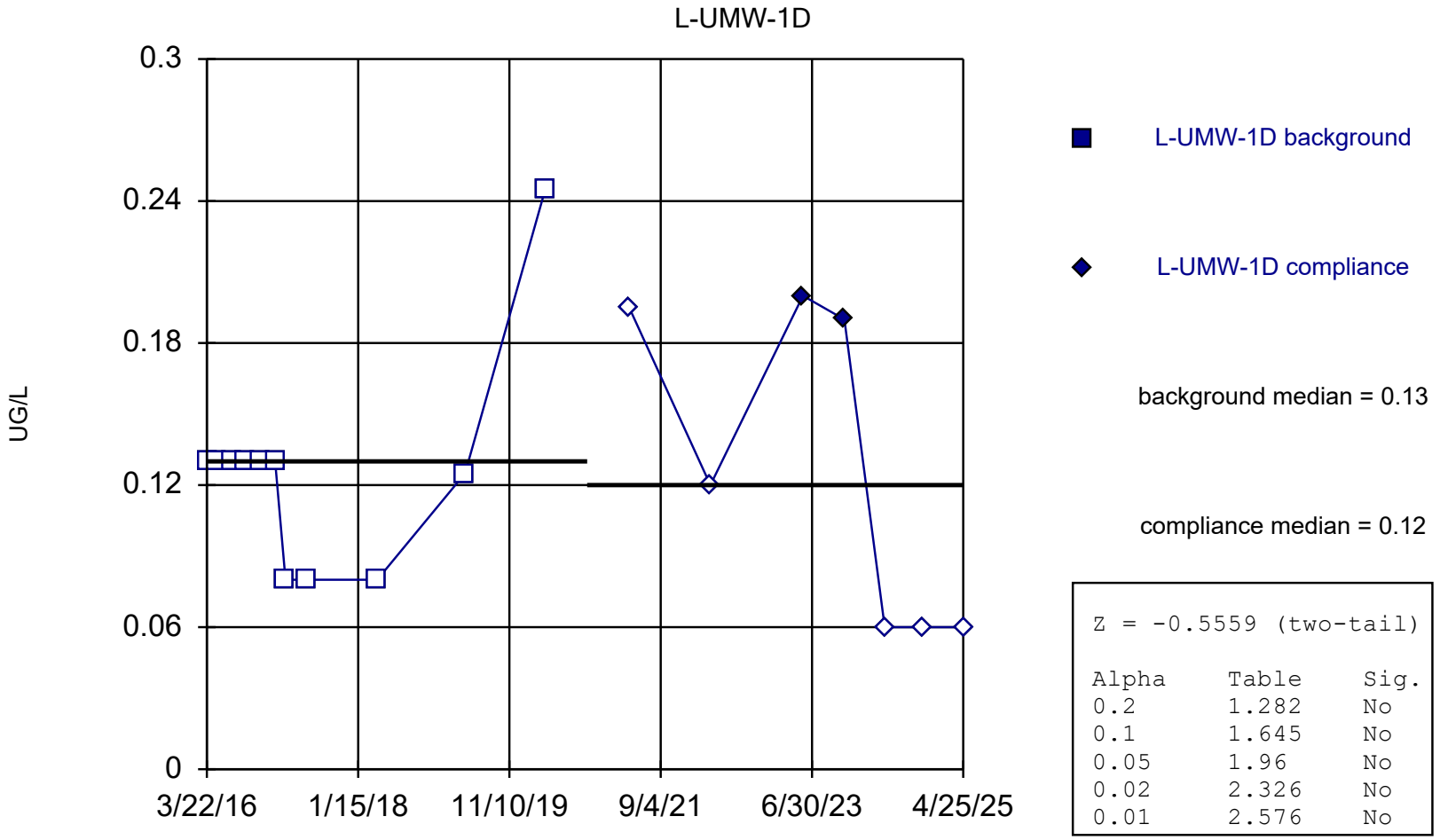
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	Yes
0.02	2.326	Yes
0.01	2.576	No

Constituent: BARIUM, TOTAL Analysis Run 8/27/2025 3:54 PM

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)



Z = -0.5559 (two-tail)

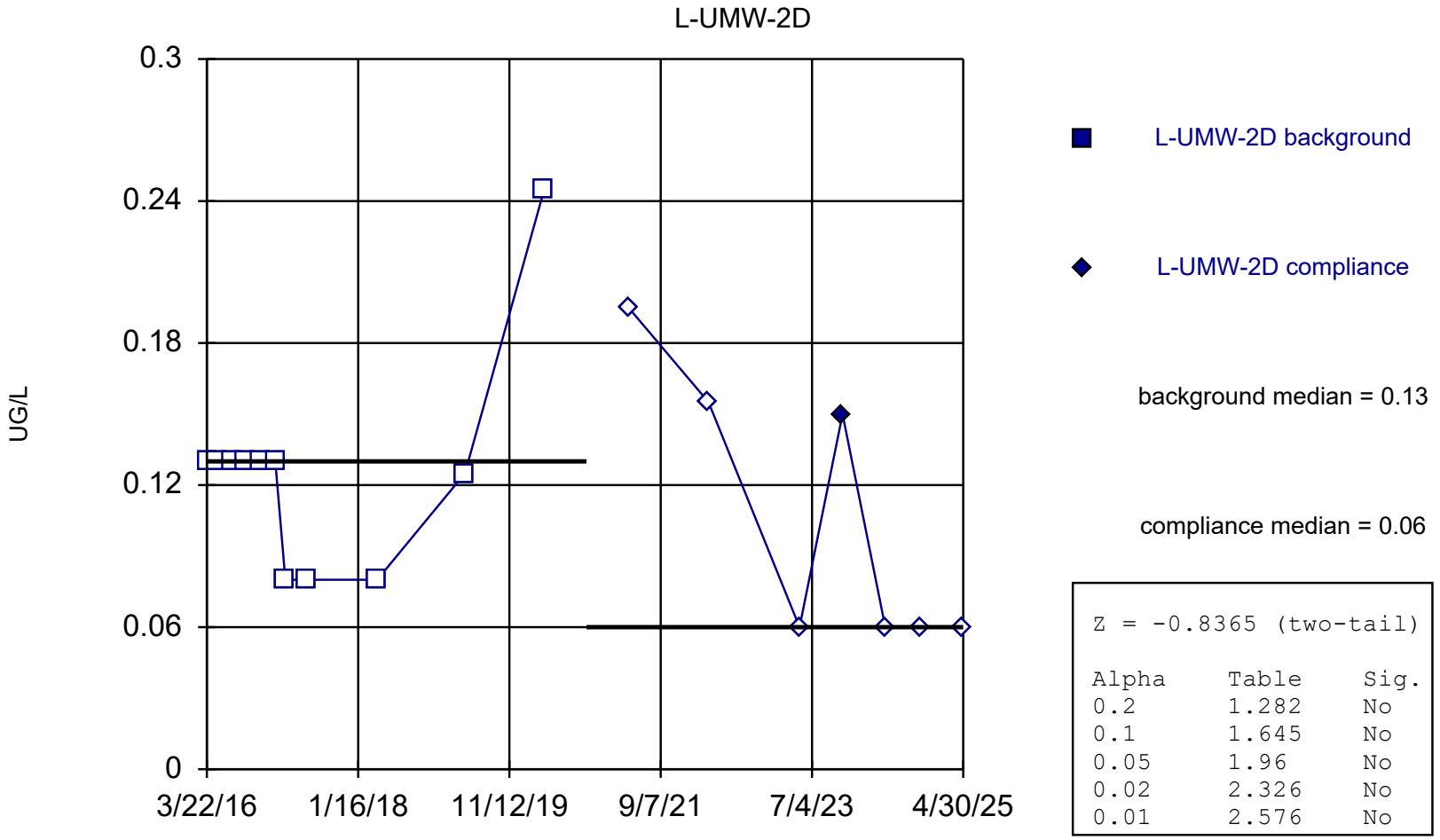
Alpha	Table	Sig.
0.2	1.282	No
0.1	1.645	No
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: BERYLLIUM, TOTAL Analysis Run 8/27/2025 3:54 PM

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)



Z = -0.8365 (two-tail)

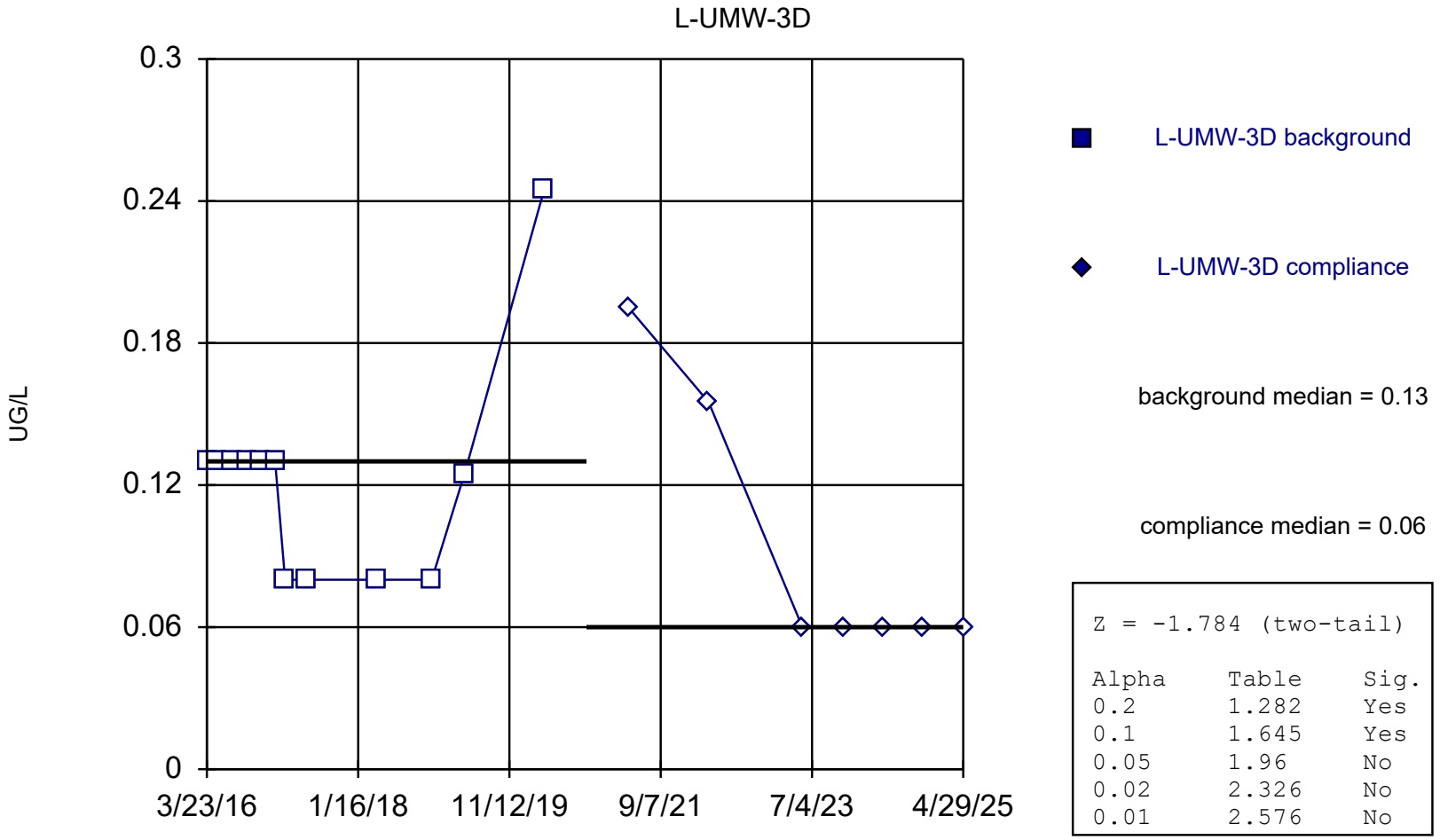
Alpha	Table	Sig.
0.2	1.282	No
0.1	1.645	No
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: BERYLLIUM, TOTAL Analysis Run 8/27/2025 3:54 PM

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)



Z = -1.784 (two-tail)

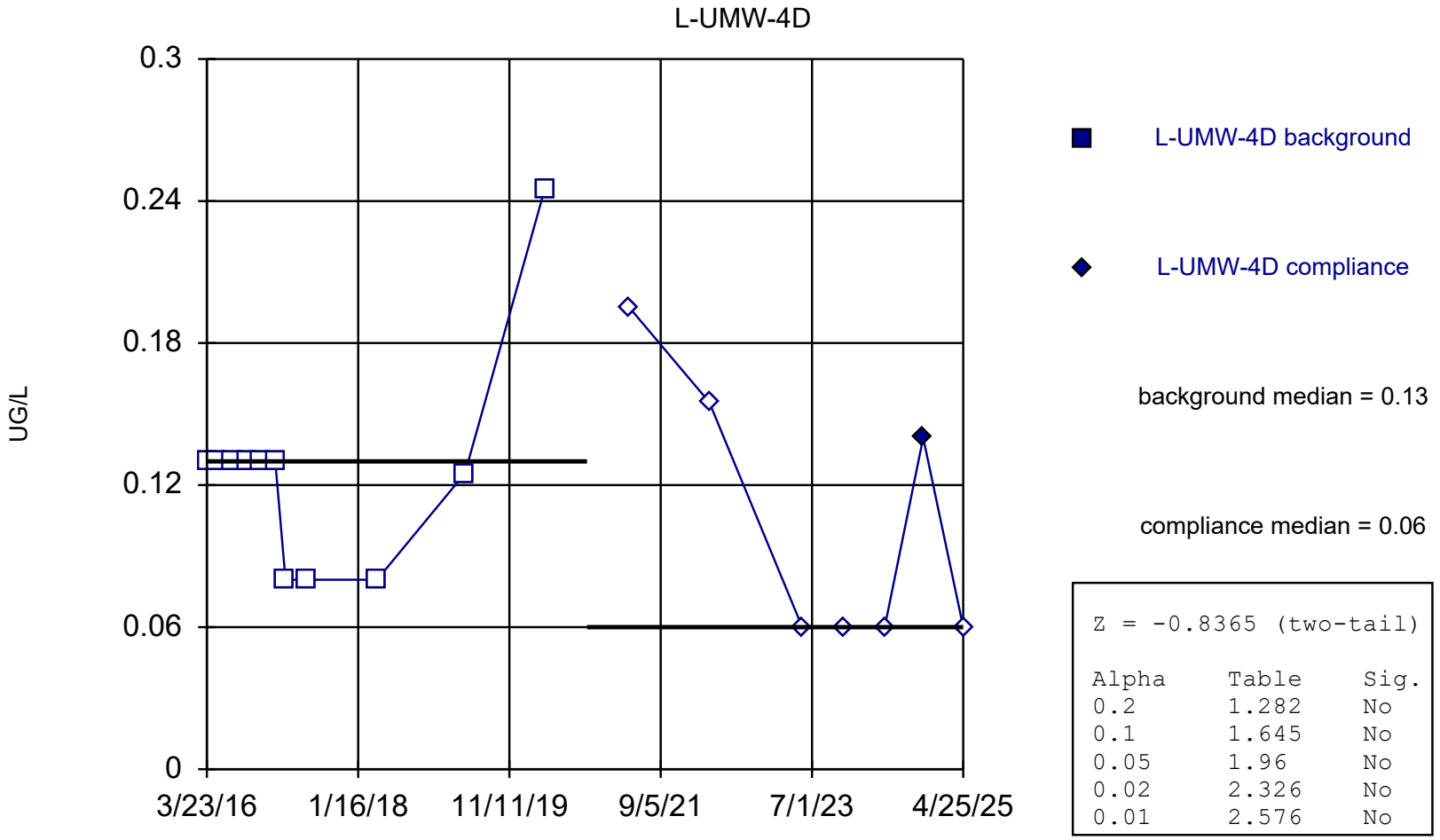
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: BERYLLIUM, TOTAL Analysis Run 8/27/2025 3:54 PM

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)



Z = -0.8365 (two-tail)

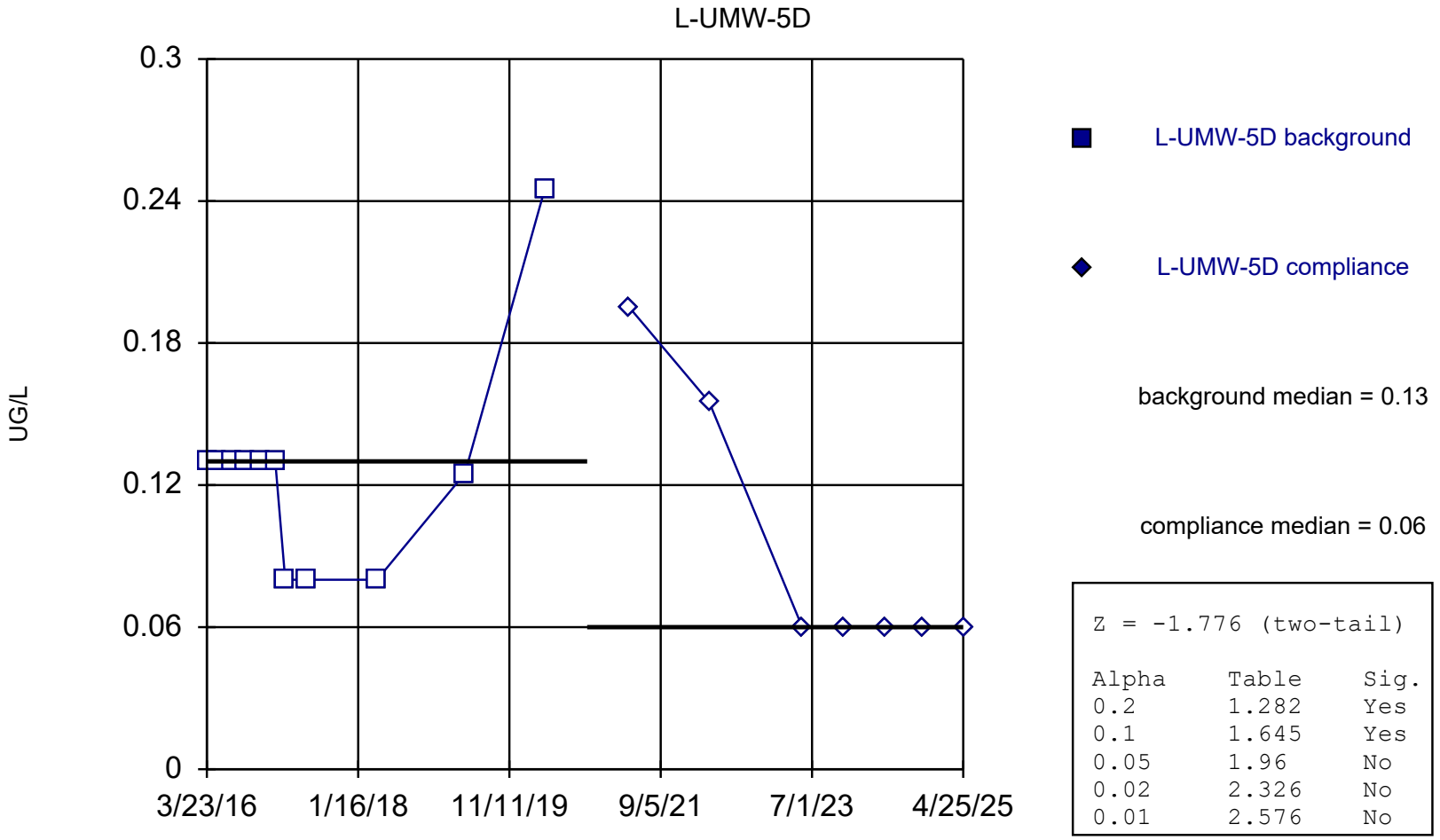
Alpha	Table	Sig.
0.2	1.282	No
0.1	1.645	No
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: BERYLLIUM, TOTAL Analysis Run 8/27/2025 3:55 PM

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)



Z = -1.776 (two-tail)

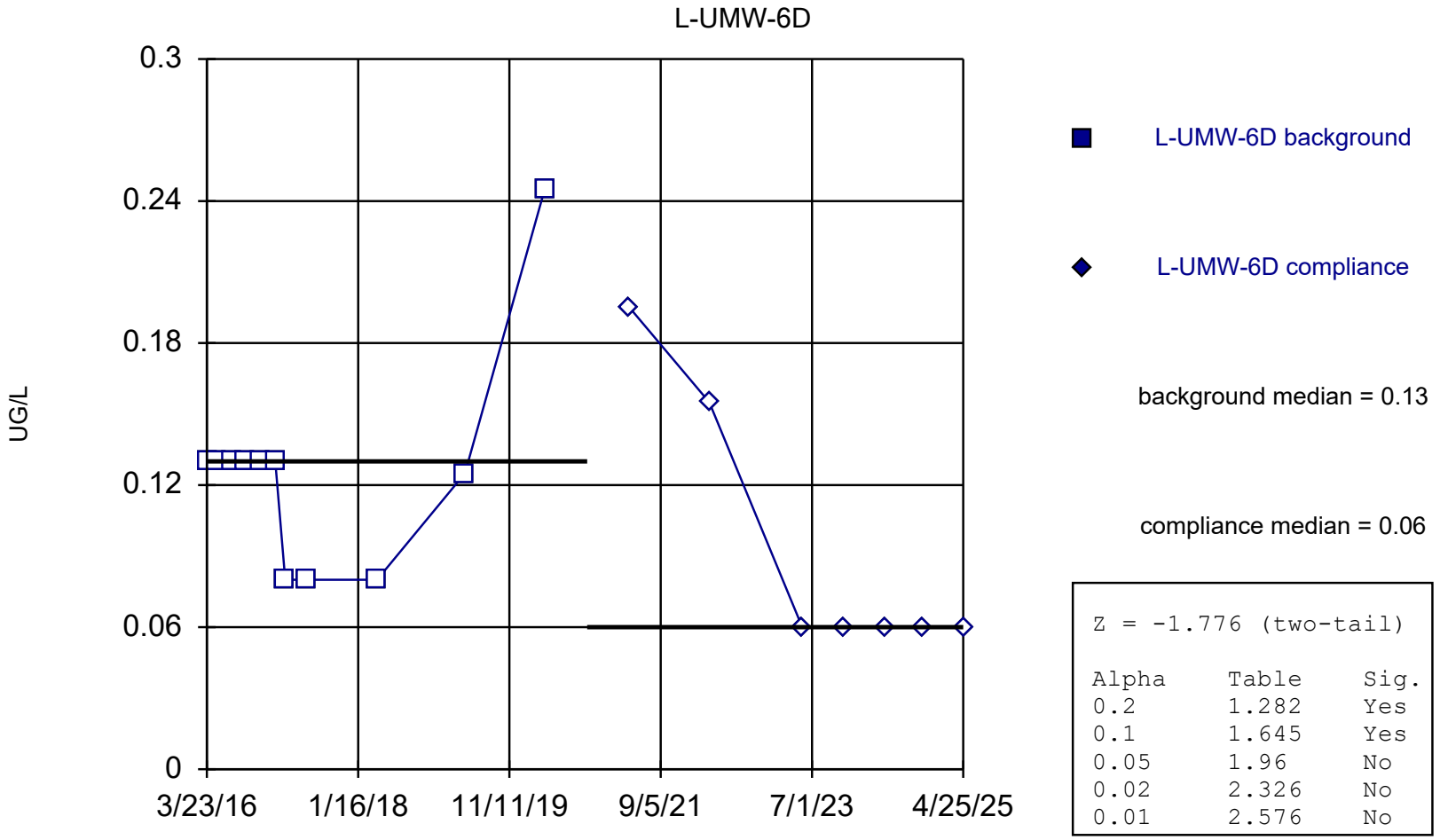
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: BERYLLIUM, TOTAL Analysis Run 8/27/2025 3:55 PM

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)



Z = -1.776 (two-tail)

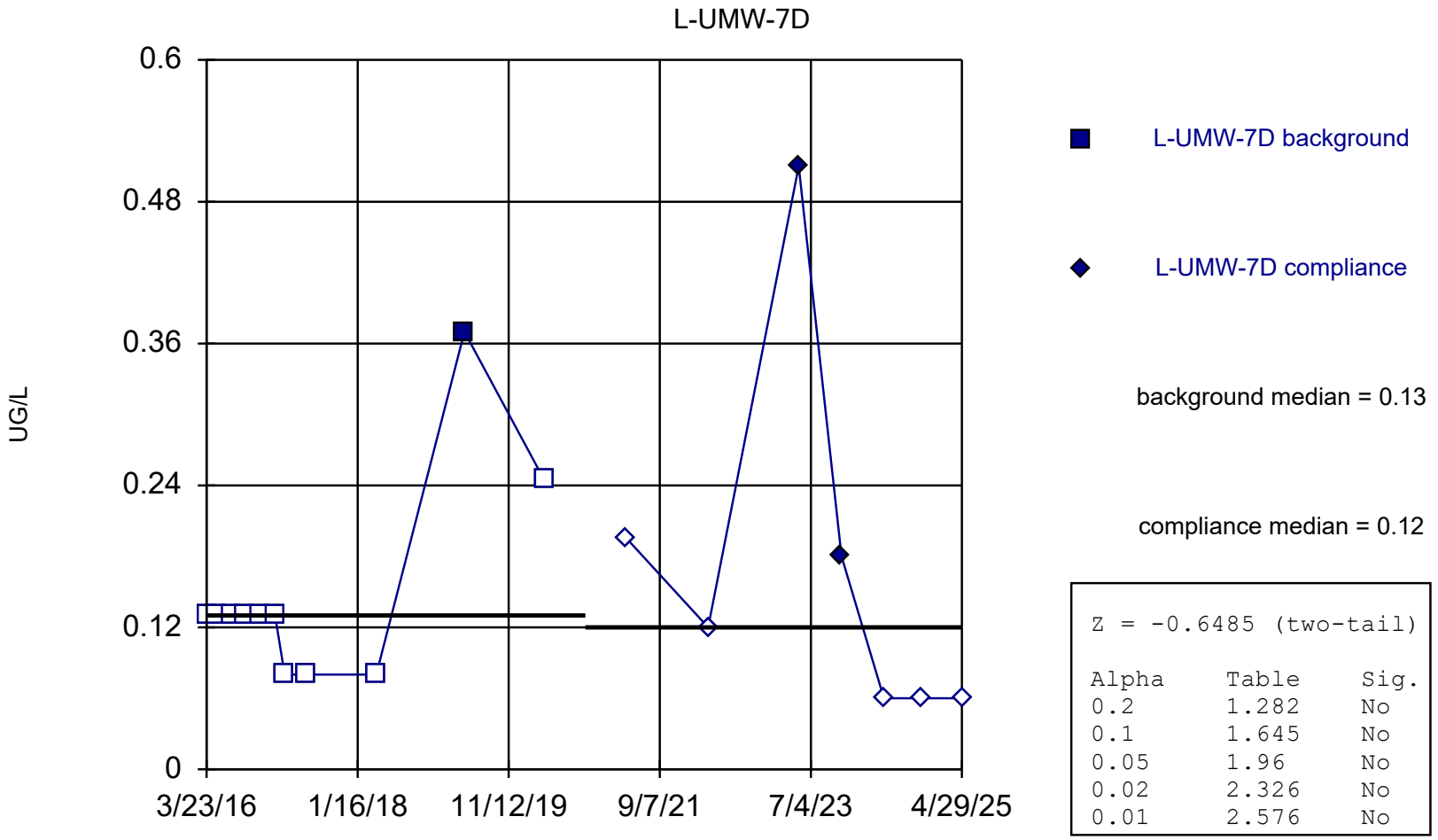
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: BERYLLIUM, TOTAL Analysis Run 8/27/2025 3:55 PM

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)



Z = -0.6485 (two-tail)

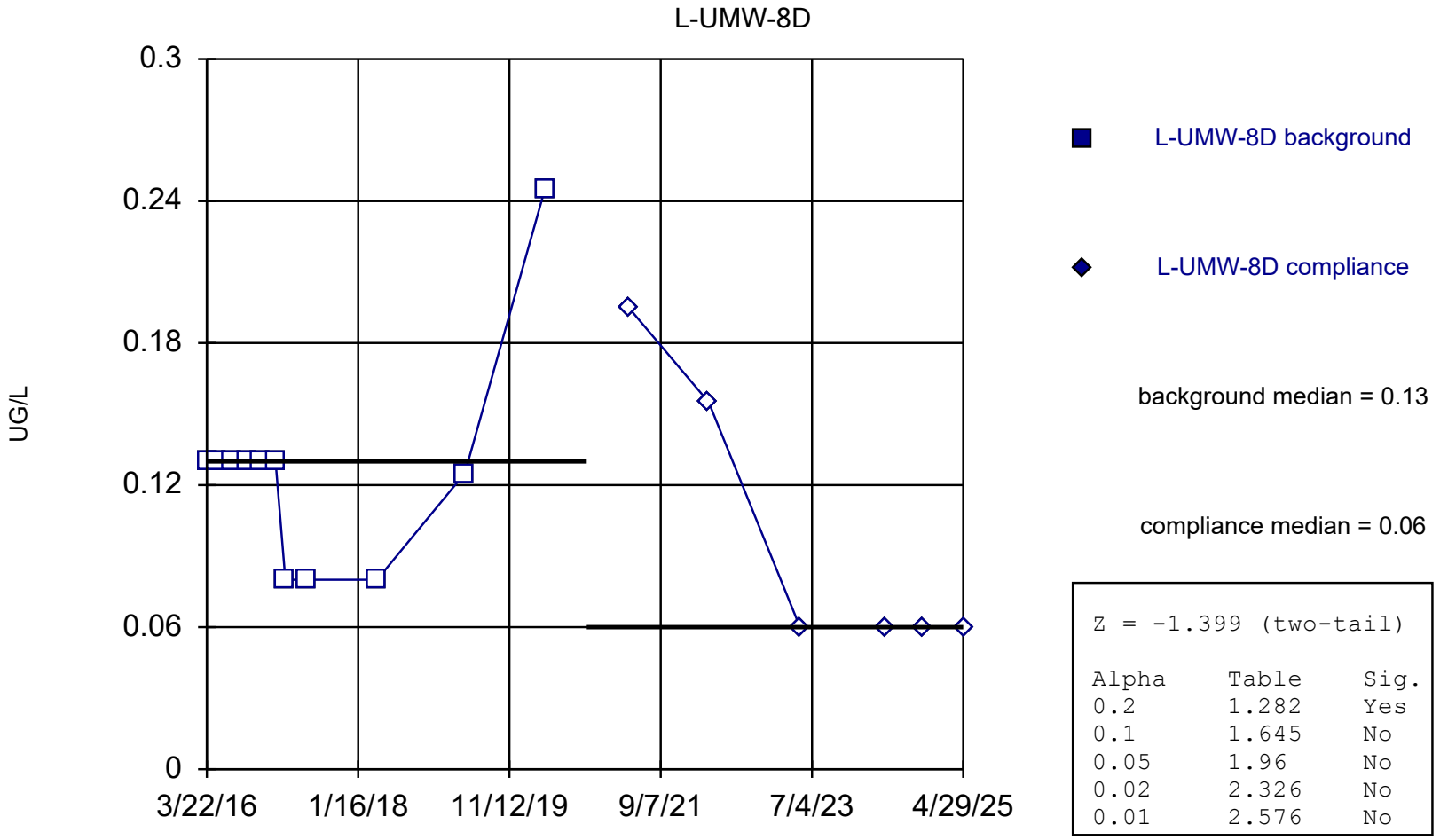
Alpha	Table	Sig.
0.2	1.282	No
0.1	1.645	No
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: BERYLLIUM, TOTAL Analysis Run 8/27/2025 3:55 PM

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)



Z = -1.399 (two-tail)

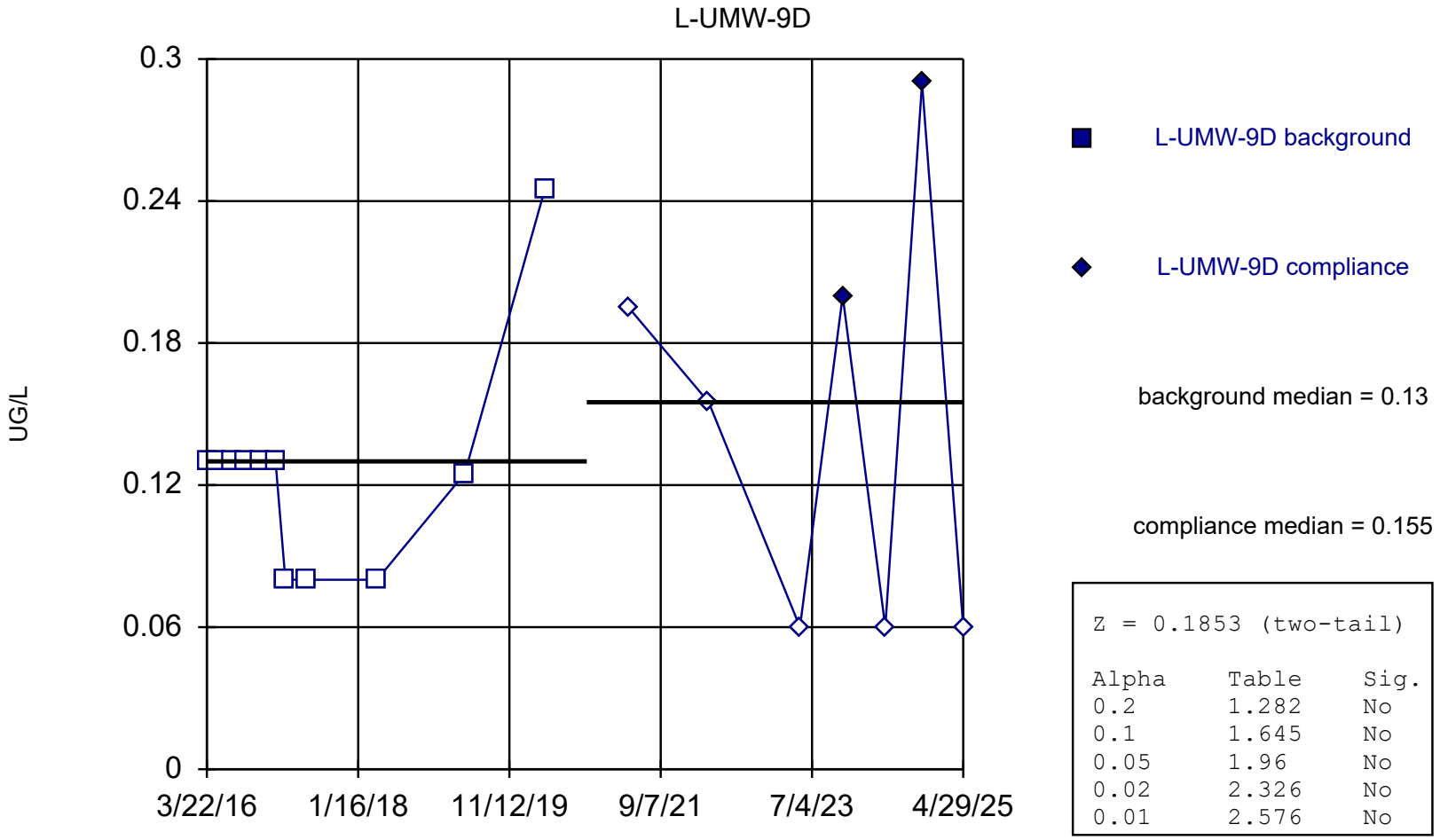
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	No
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: BERYLLIUM, TOTAL Analysis Run 8/27/2025 3:55 PM

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)



Z = 0.1853 (two-tail)

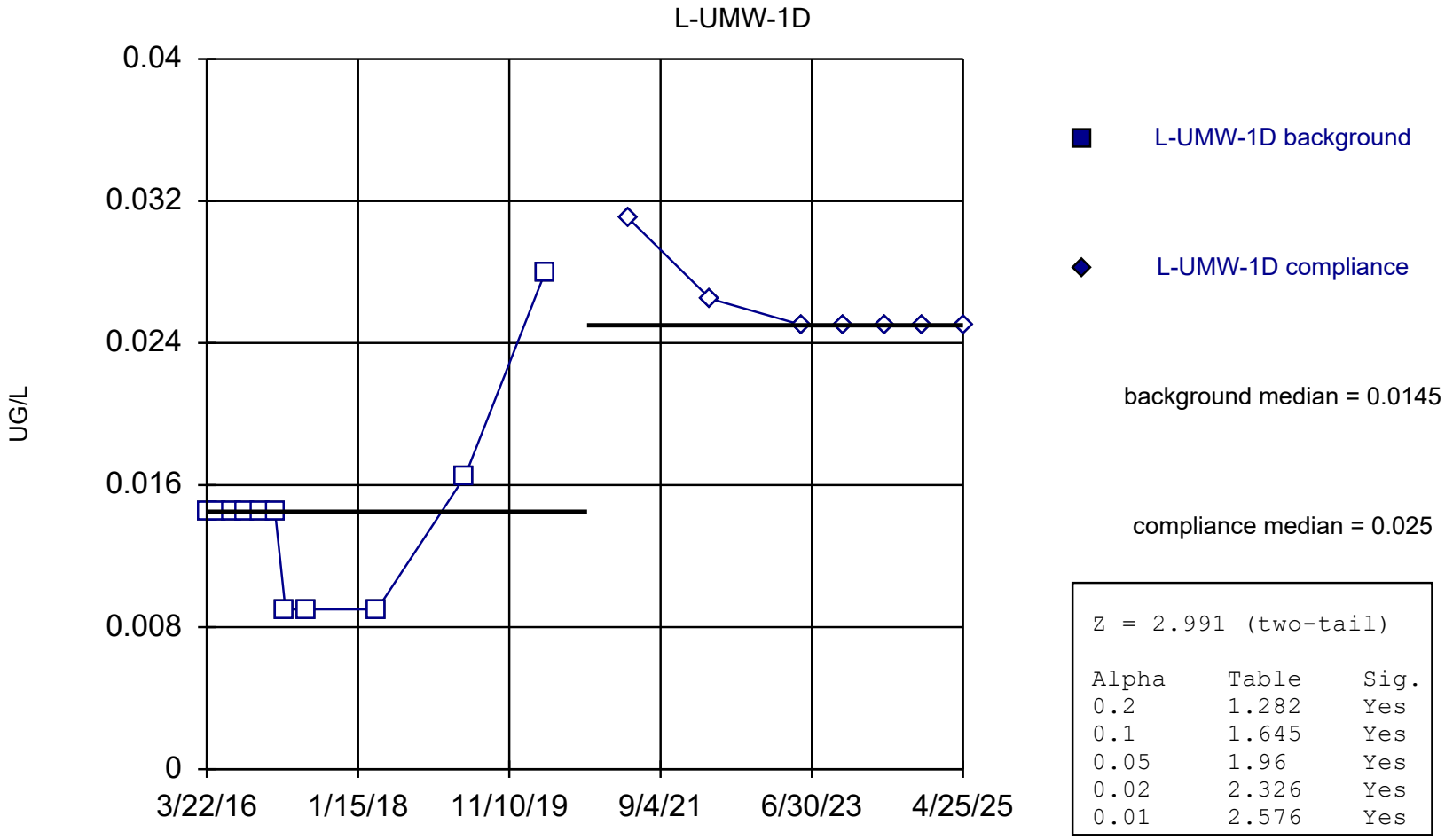
Alpha	Table	Sig.
0.2	1.282	No
0.1	1.645	No
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: BERYLLIUM, TOTAL Analysis Run 8/27/2025 3:55 PM

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)



Z = 2.991 (two-tail)

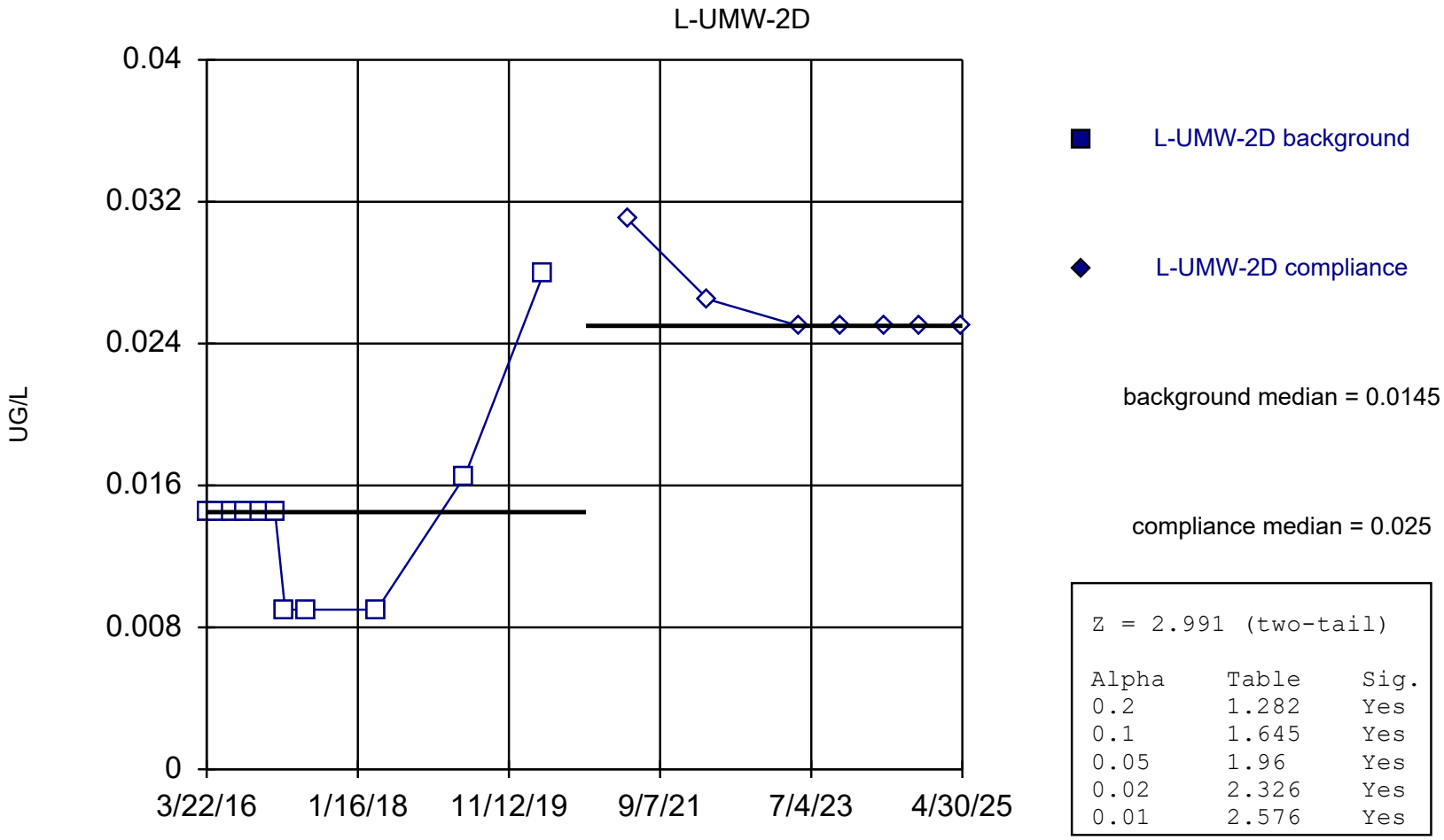
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	Yes
0.02	2.326	Yes
0.01	2.576	Yes

Constituent: CADMIUM, TOTAL Analysis Run 8/27/2025 3:55 PM

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)



Z = 2.991 (two-tail)

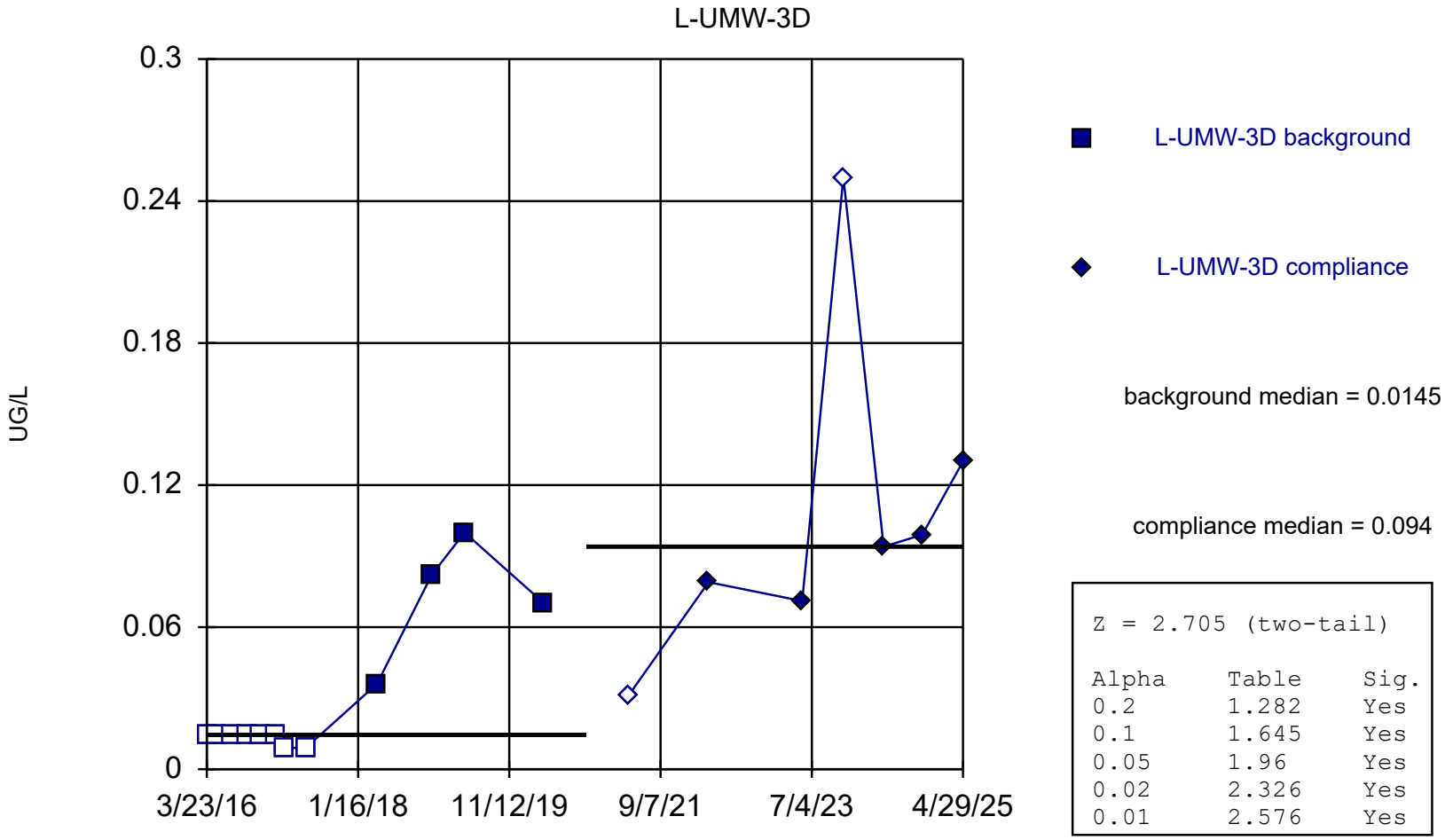
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	Yes
0.02	2.326	Yes
0.01	2.576	Yes

Constituent: CADMIUM, TOTAL Analysis Run 8/27/2025 3:55 PM

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)

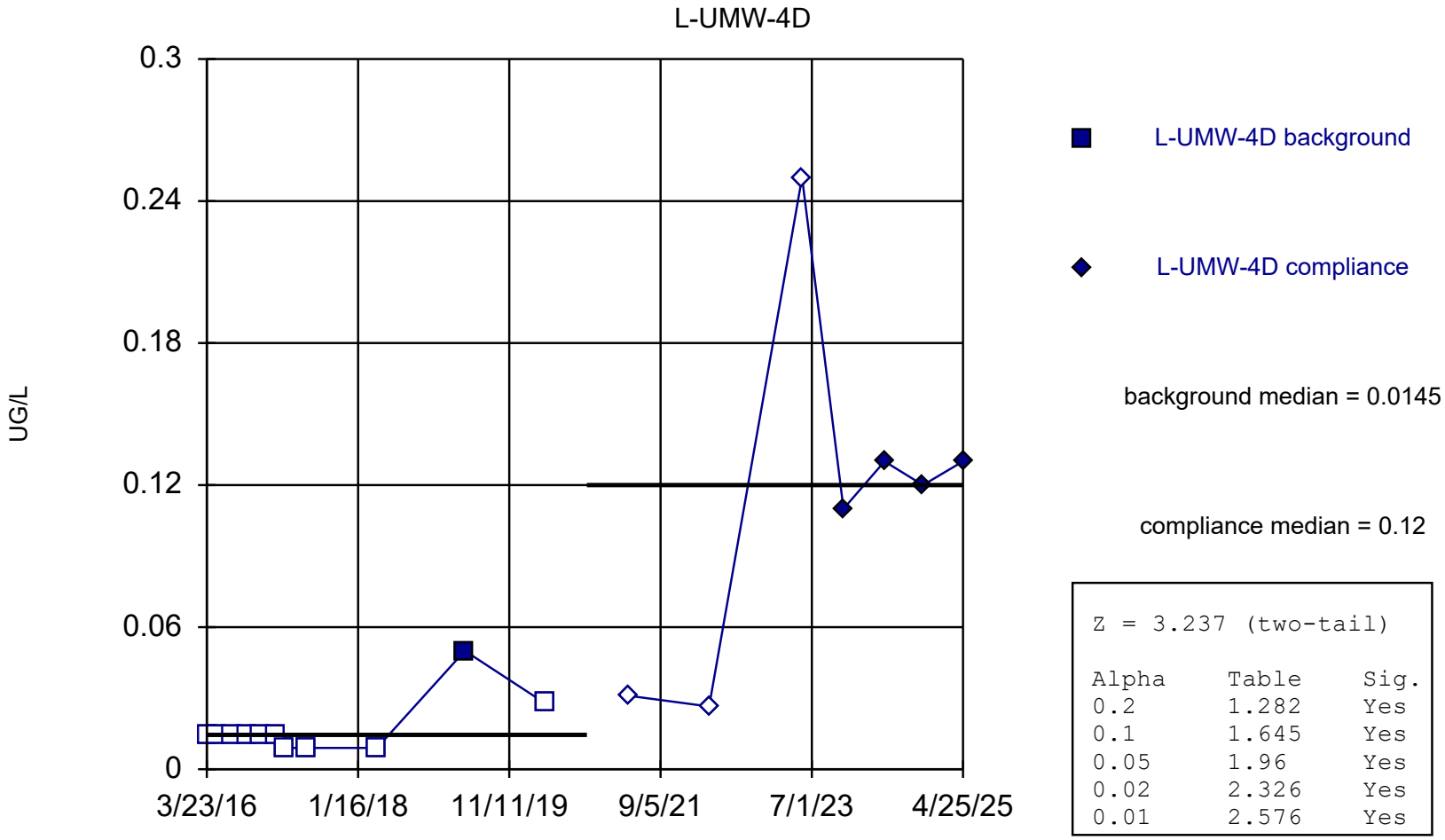


Constituent: CADMIUM, TOTAL Analysis Run 8/27/2025 3:55 PM

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)



Z = 3.237 (two-tail)

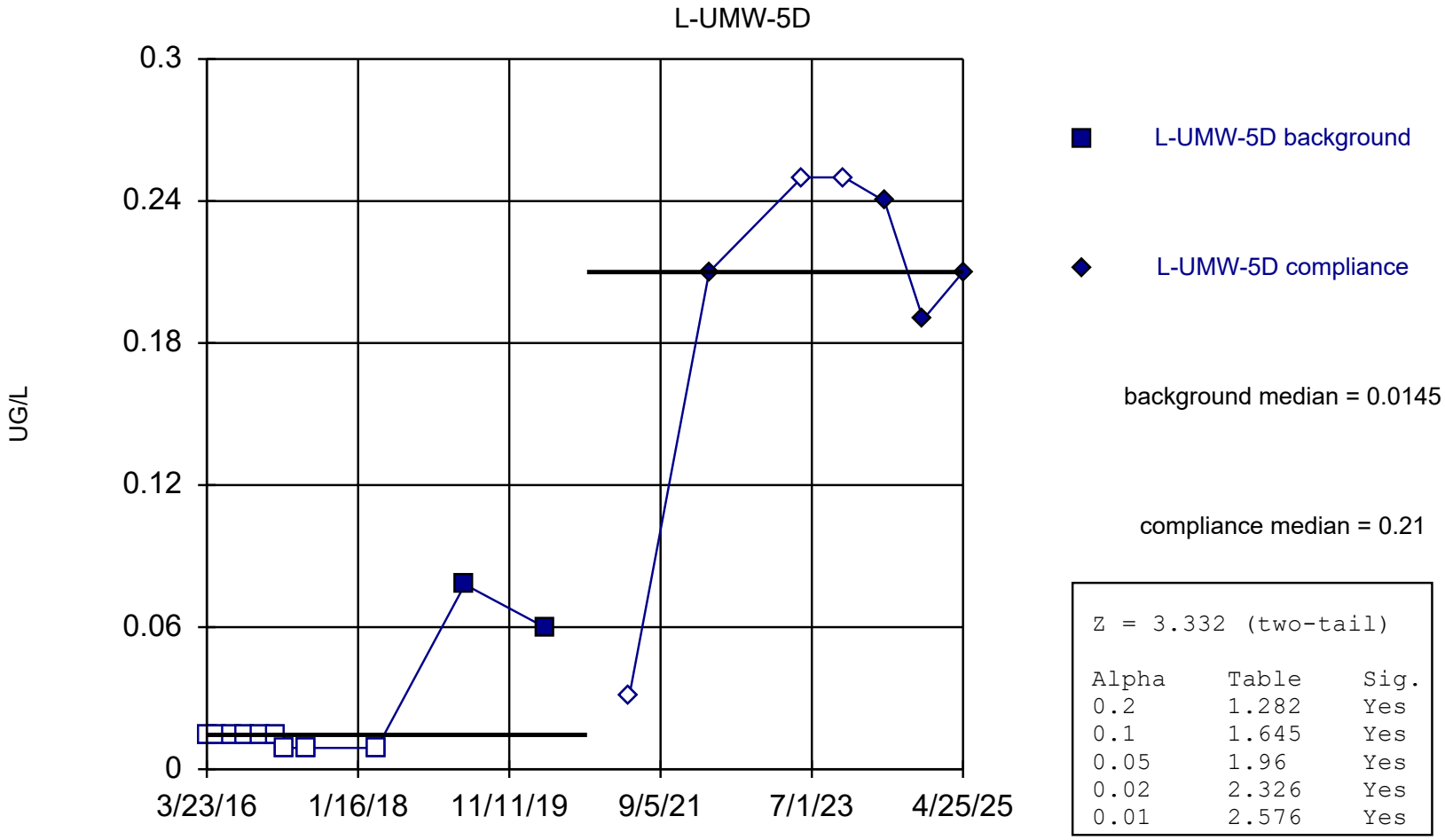
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	Yes
0.02	2.326	Yes
0.01	2.576	Yes

Constituent: CADMIUM, TOTAL Analysis Run 8/27/2025 3:55 PM

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)

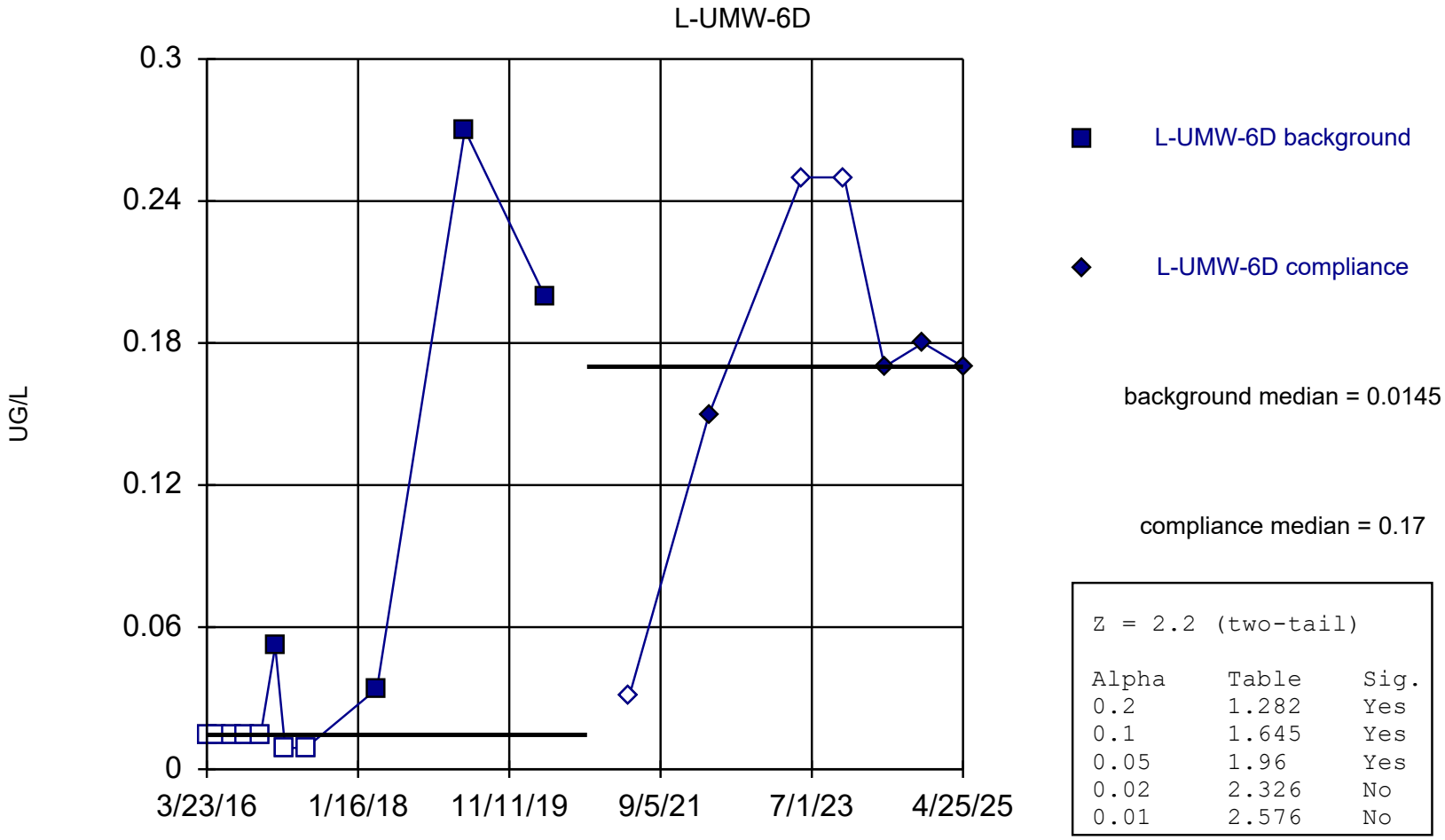


Constituent: CADMIUM, TOTAL Analysis Run 8/27/2025 3:55 PM

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)



Z = 2.2 (two-tail)

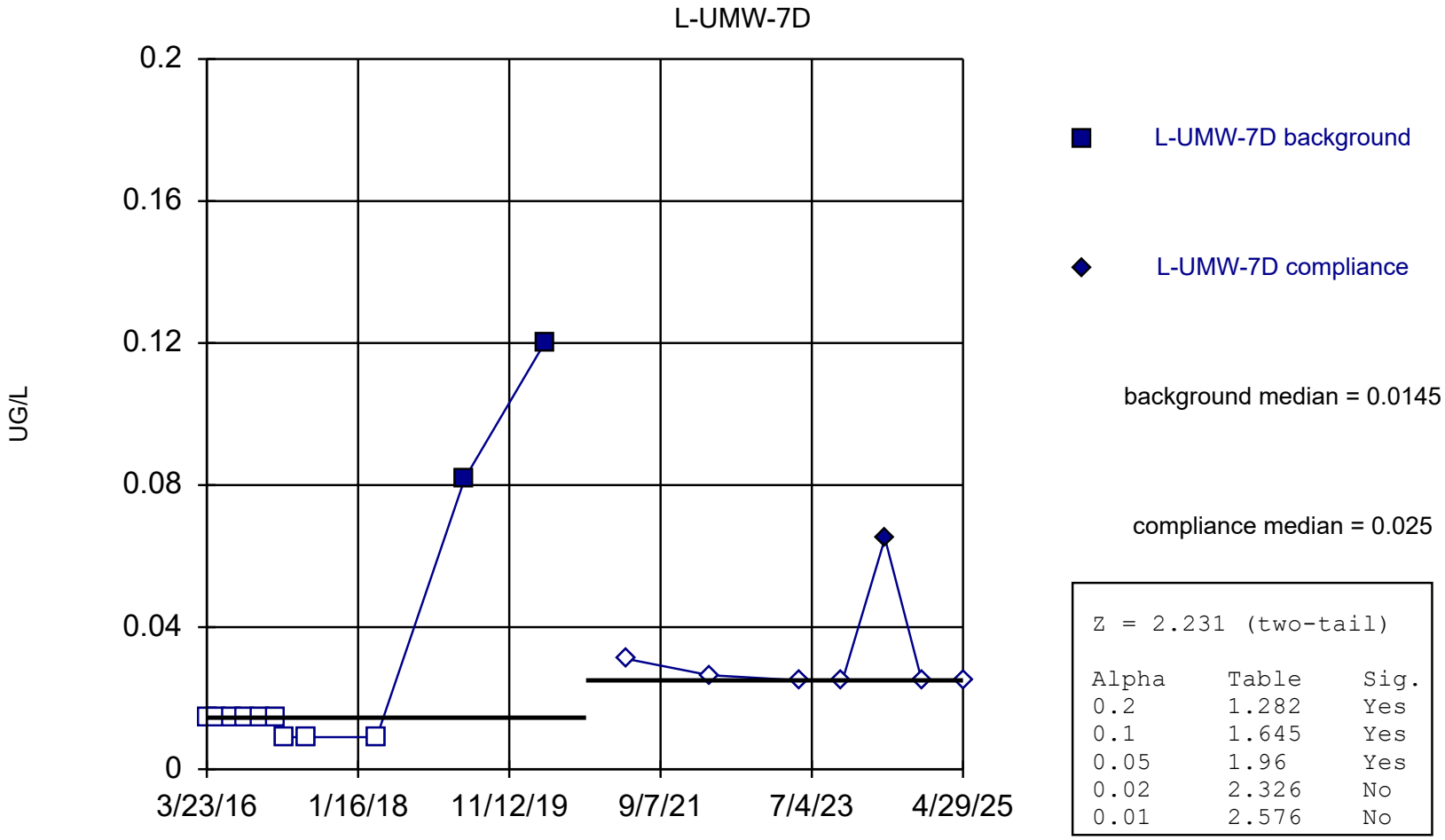
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	Yes
0.02	2.326	No
0.01	2.576	No

Constituent: CADMIUM, TOTAL Analysis Run 8/27/2025 3:55 PM

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)

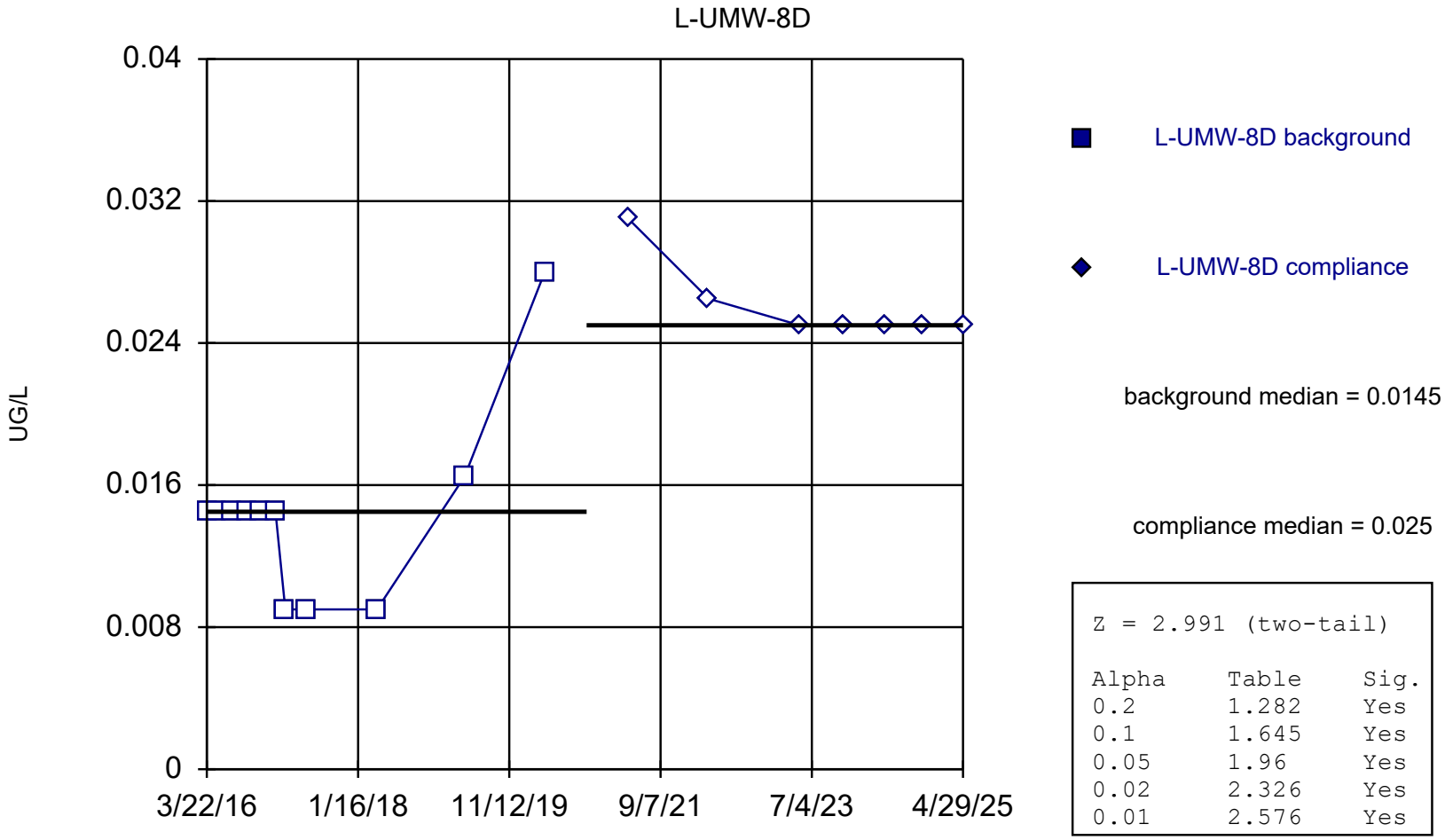


Constituent: CADMIUM, TOTAL Analysis Run 8/27/2025 3:55 PM

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)

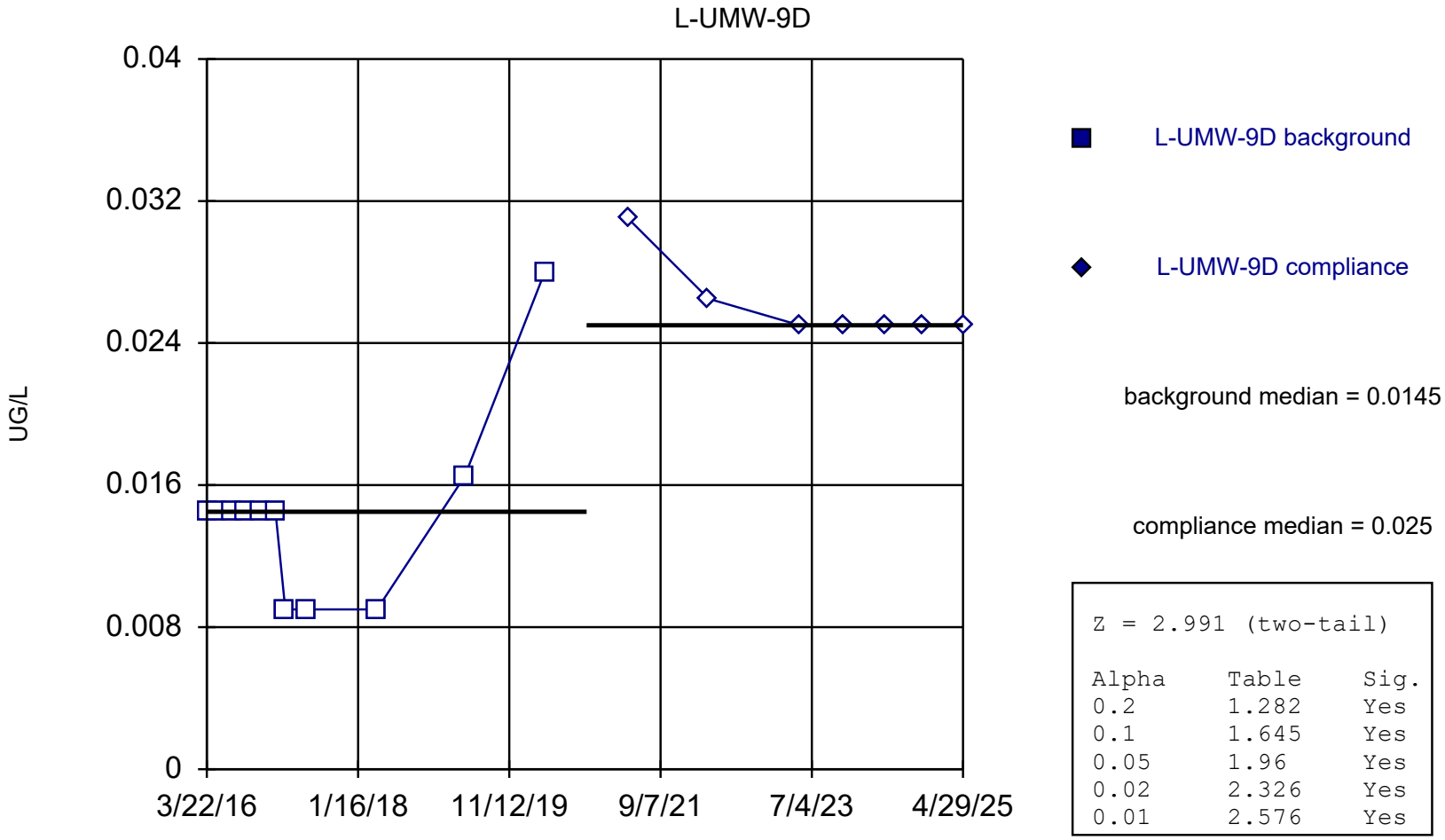


Constituent: CADMIUM, TOTAL Analysis Run 8/27/2025 3:55 PM

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)

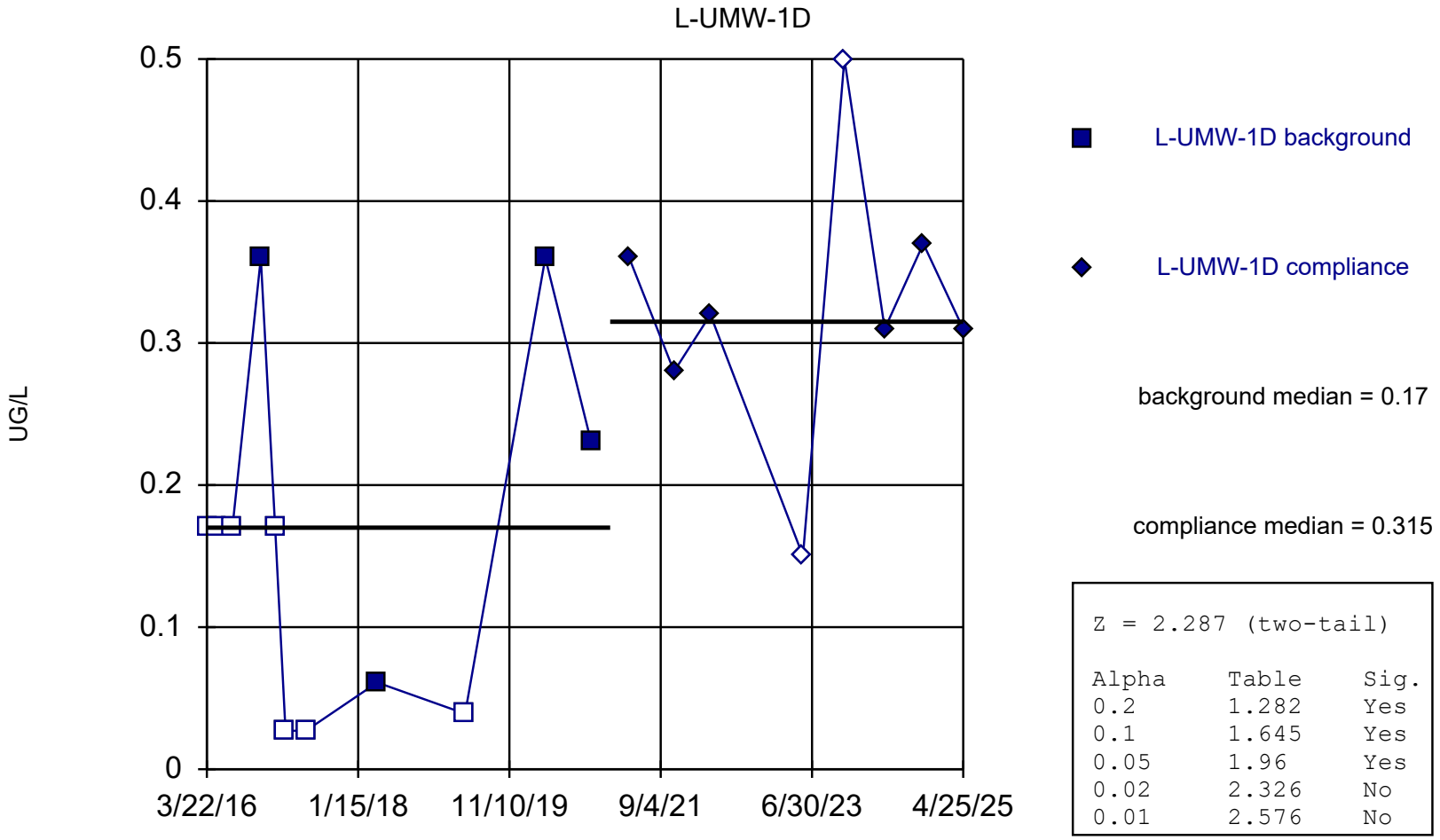


Constituent: CADMIUM, TOTAL Analysis Run 8/27/2025 3:55 PM

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)



Z = 2.287 (two-tail)

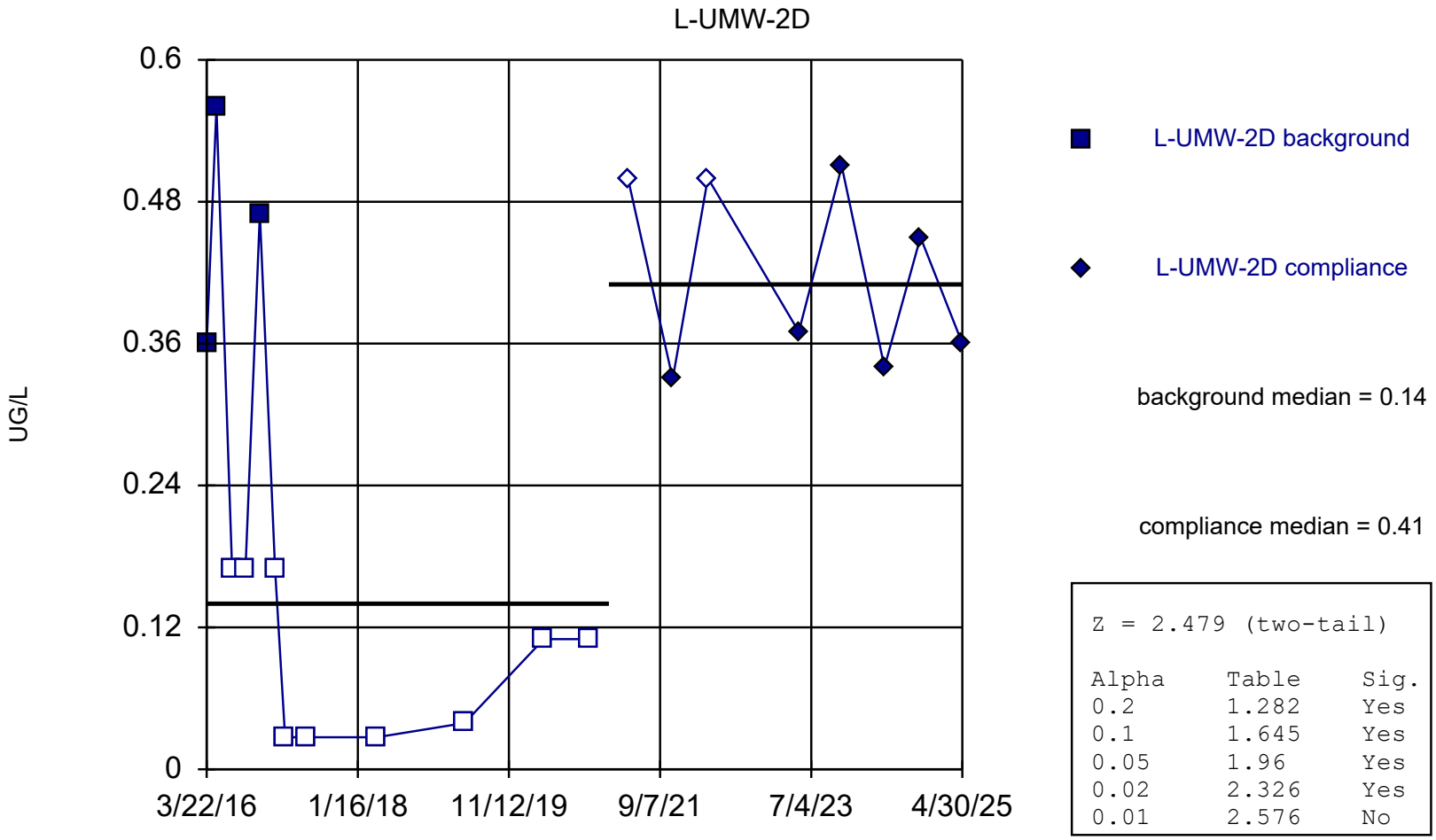
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	Yes
0.02	2.326	No
0.01	2.576	No

Constituent: CHROMIUM, TOTAL Analysis Run 8/27/2025 3:55 PM

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)



Z = 2.479 (two-tail)

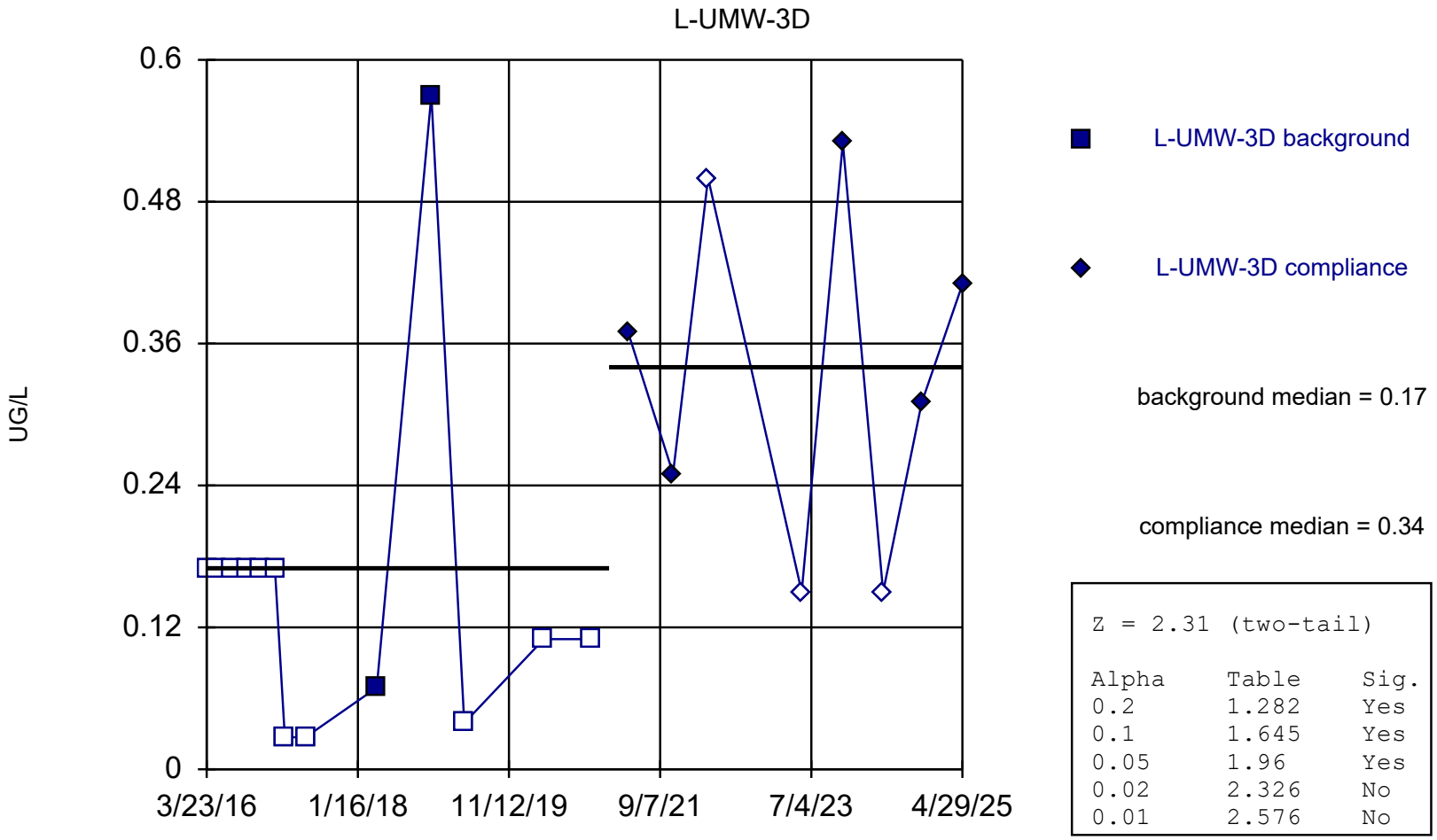
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	Yes
0.02	2.326	Yes
0.01	2.576	No

Constituent: CHROMIUM, TOTAL Analysis Run 8/27/2025 3:55 PM

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)



Z = 2.31 (two-tail)

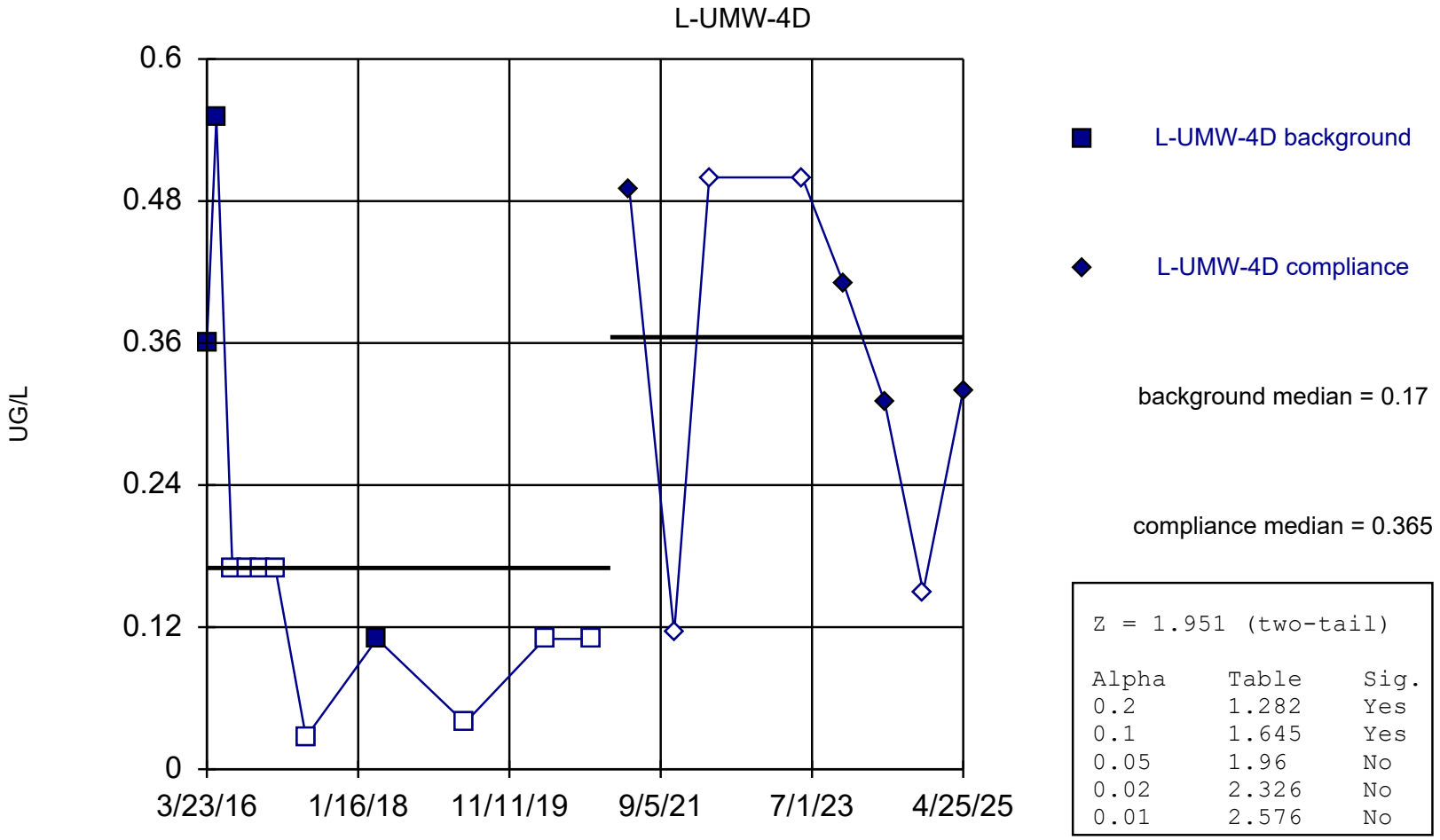
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	Yes
0.02	2.326	No
0.01	2.576	No

Constituent: CHROMIUM, TOTAL Analysis Run 8/27/2025 3:55 PM

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)



Z = 1.951 (two-tail)

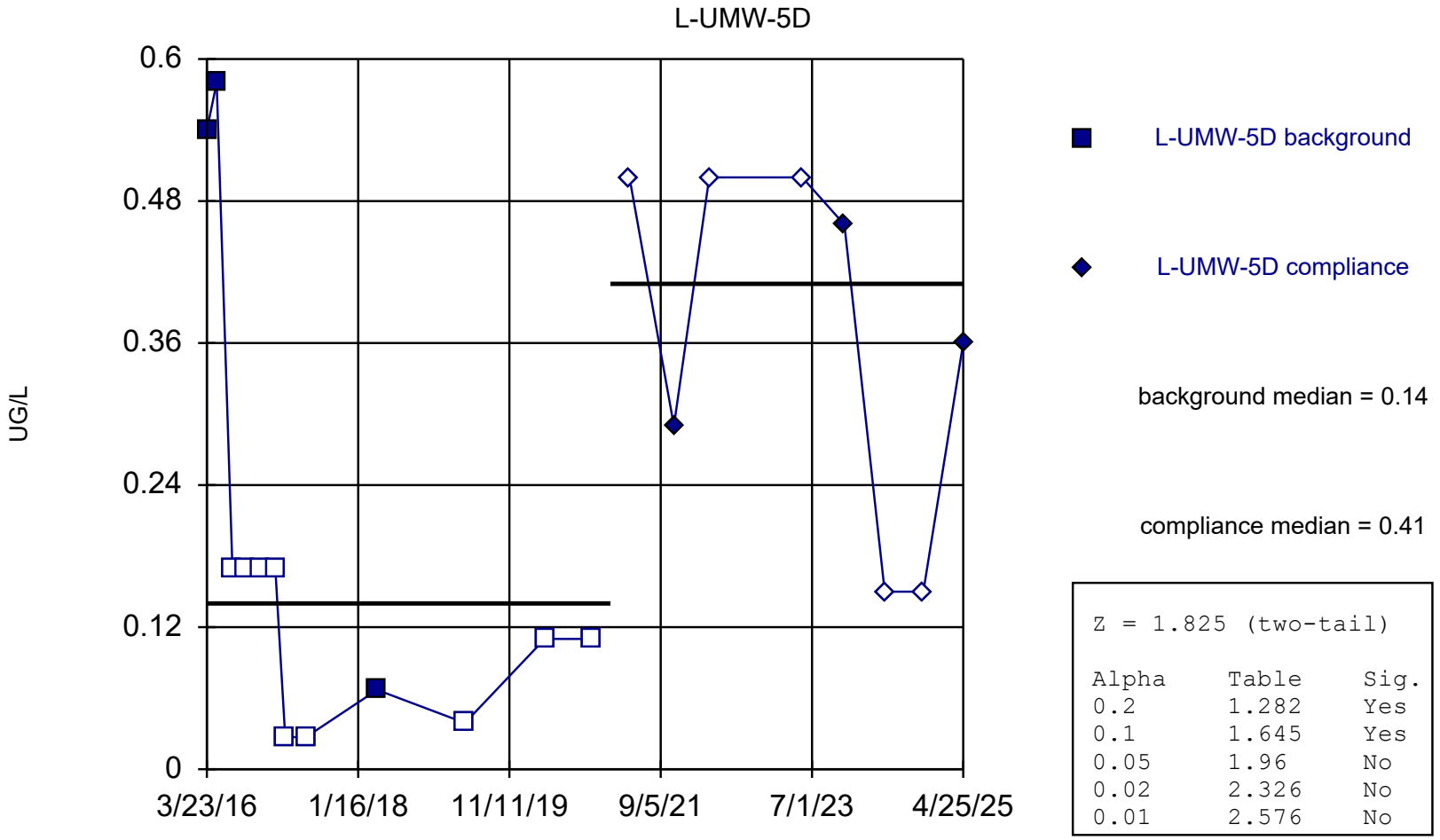
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: CHROMIUM, TOTAL Analysis Run 8/27/2025 3:55 PM

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)



Z = 1.825 (two-tail)

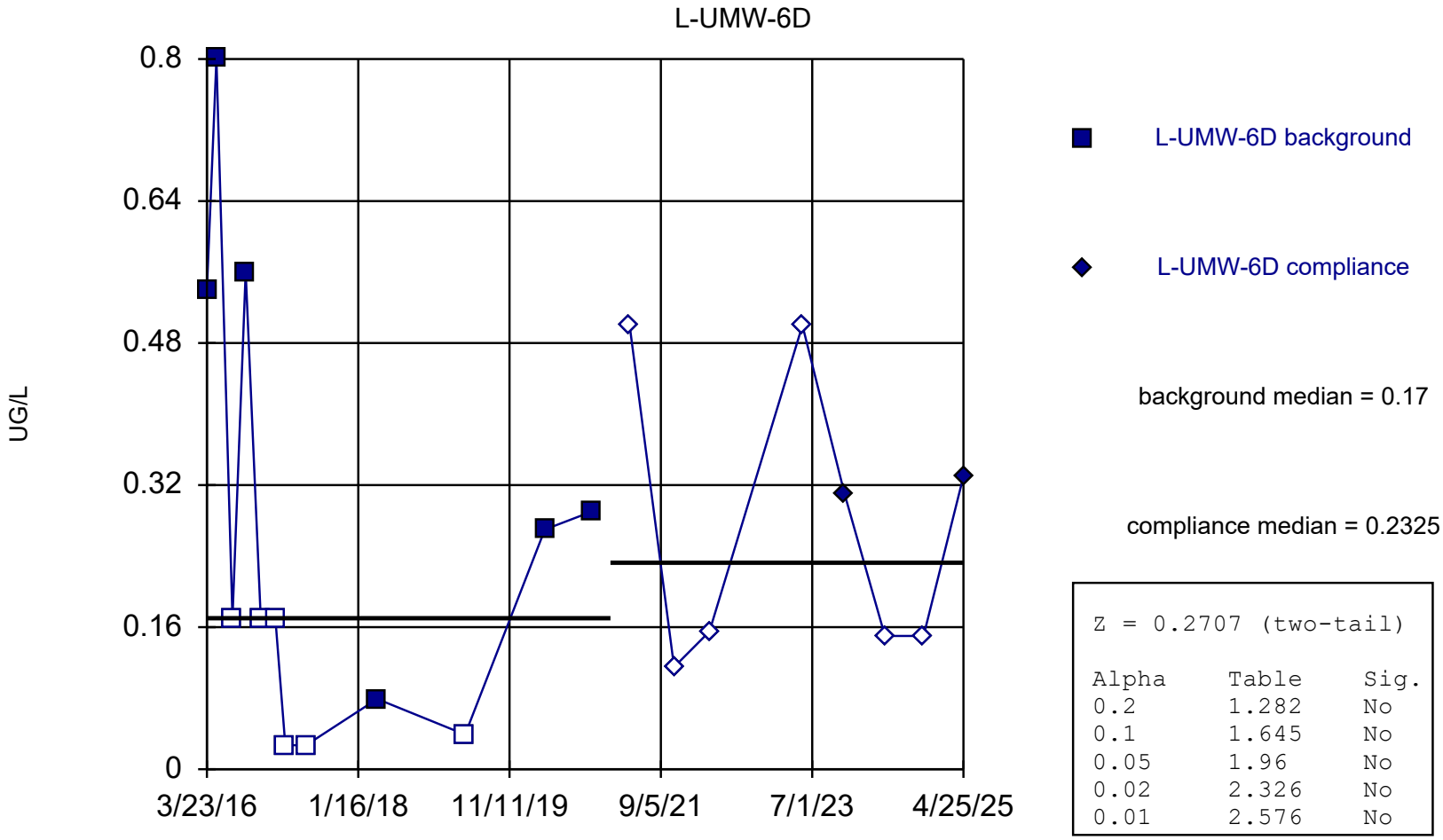
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: CHROMIUM, TOTAL Analysis Run 8/27/2025 3:55 PM

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)



Z = 0.2707 (two-tail)

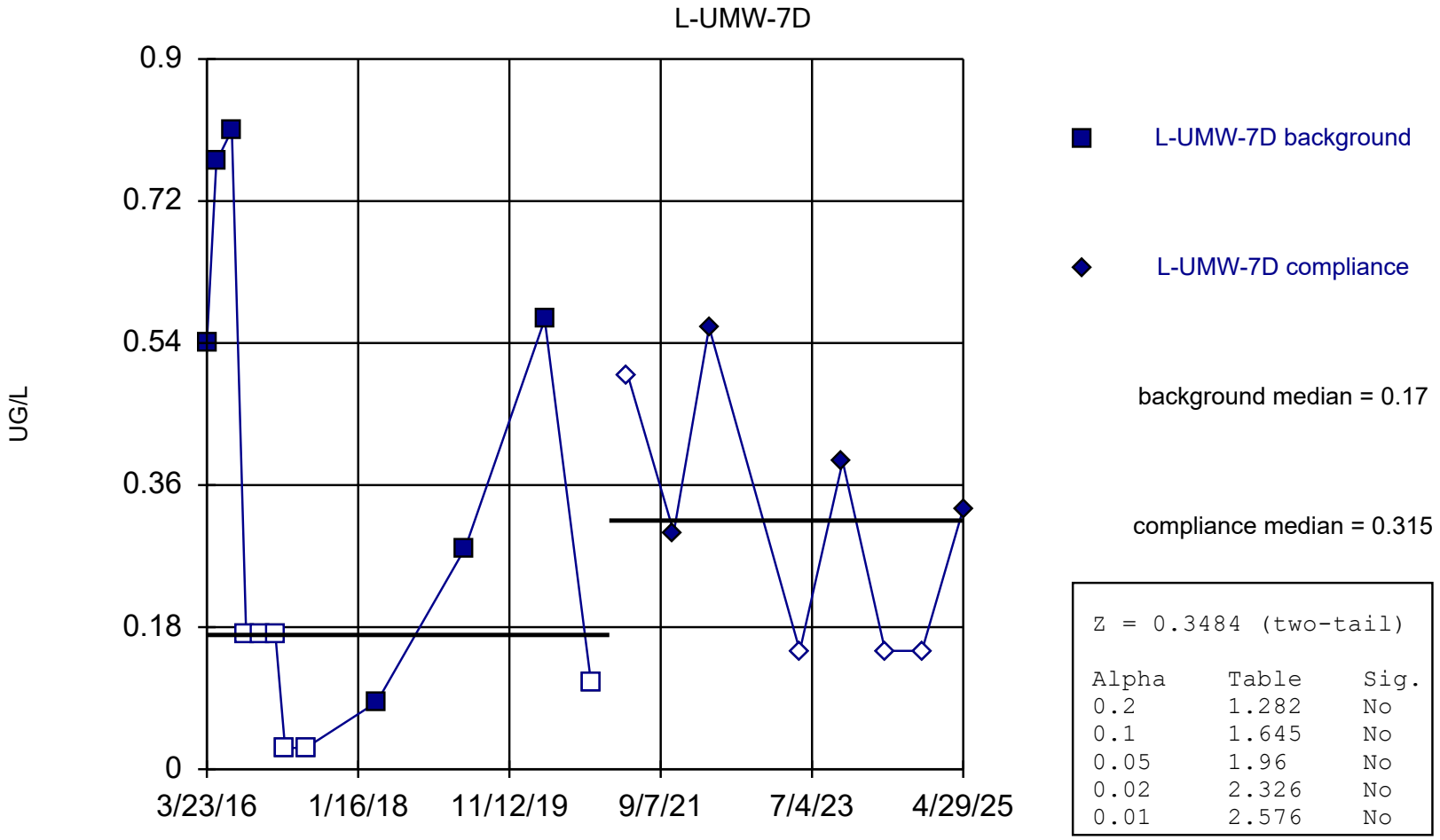
Alpha	Table	Sig.
0.2	1.282	No
0.1	1.645	No
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: CHROMIUM, TOTAL Analysis Run 8/27/2025 3:55 PM

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)



Z = 0.3484 (two-tail)

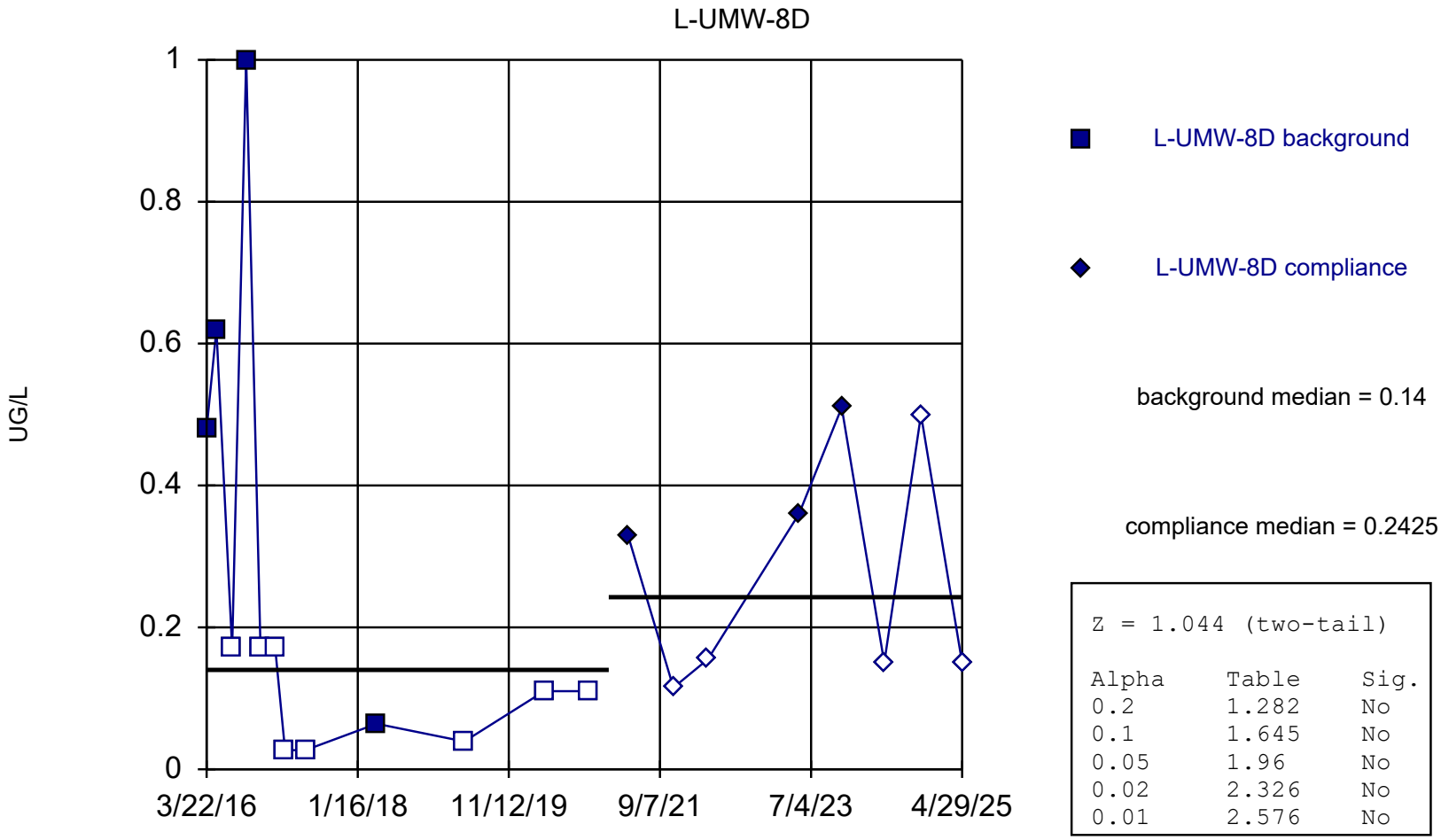
Alpha	Table	Sig.
0.2	1.282	No
0.1	1.645	No
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: CHROMIUM, TOTAL Analysis Run 8/27/2025 3:55 PM

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)



Z = 1.044 (two-tail)

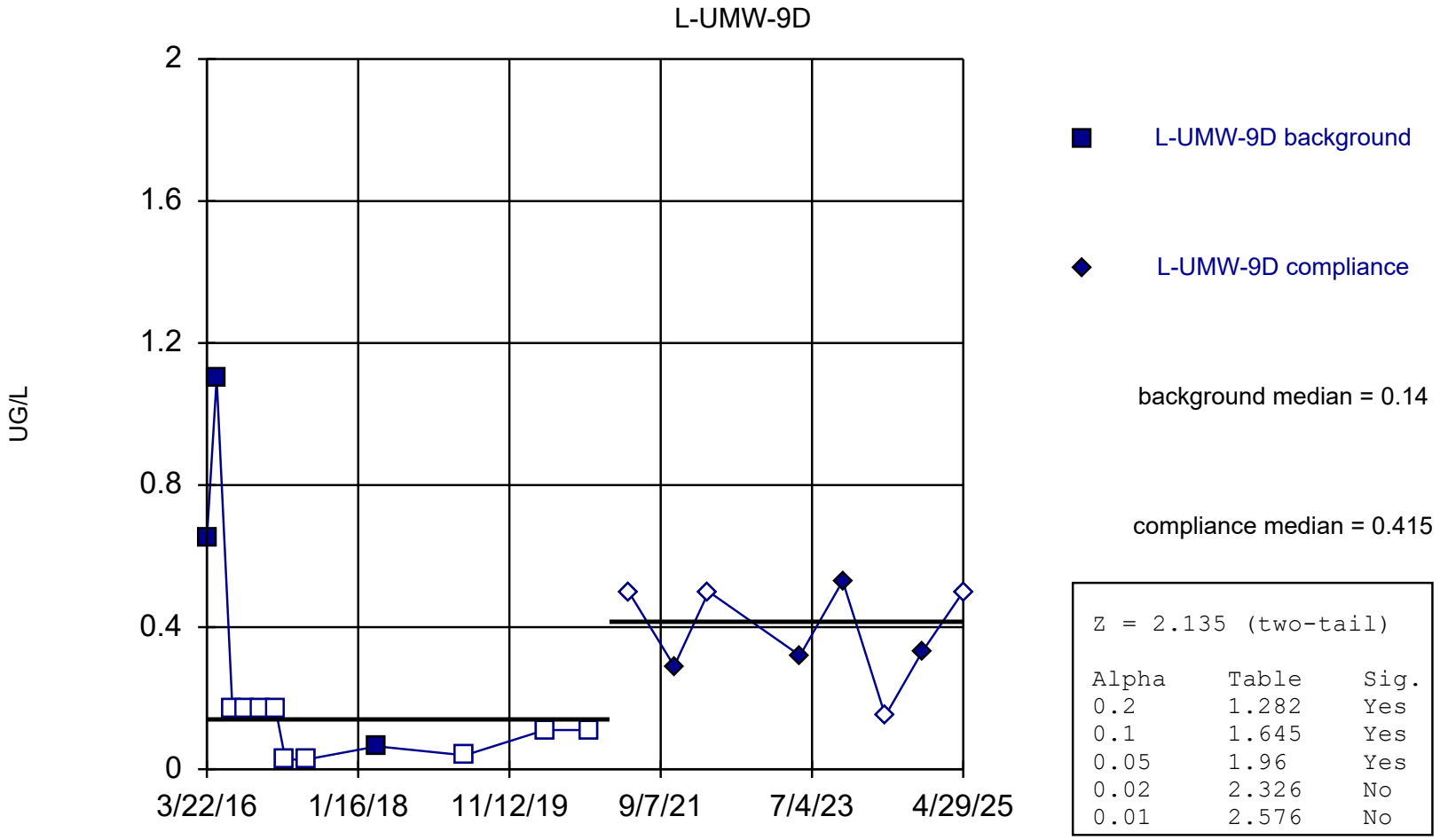
Alpha	Table	Sig.
0.2	1.282	No
0.1	1.645	No
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: CHROMIUM, TOTAL Analysis Run 8/27/2025 3:55 PM

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)



Z = 2.135 (two-tail)

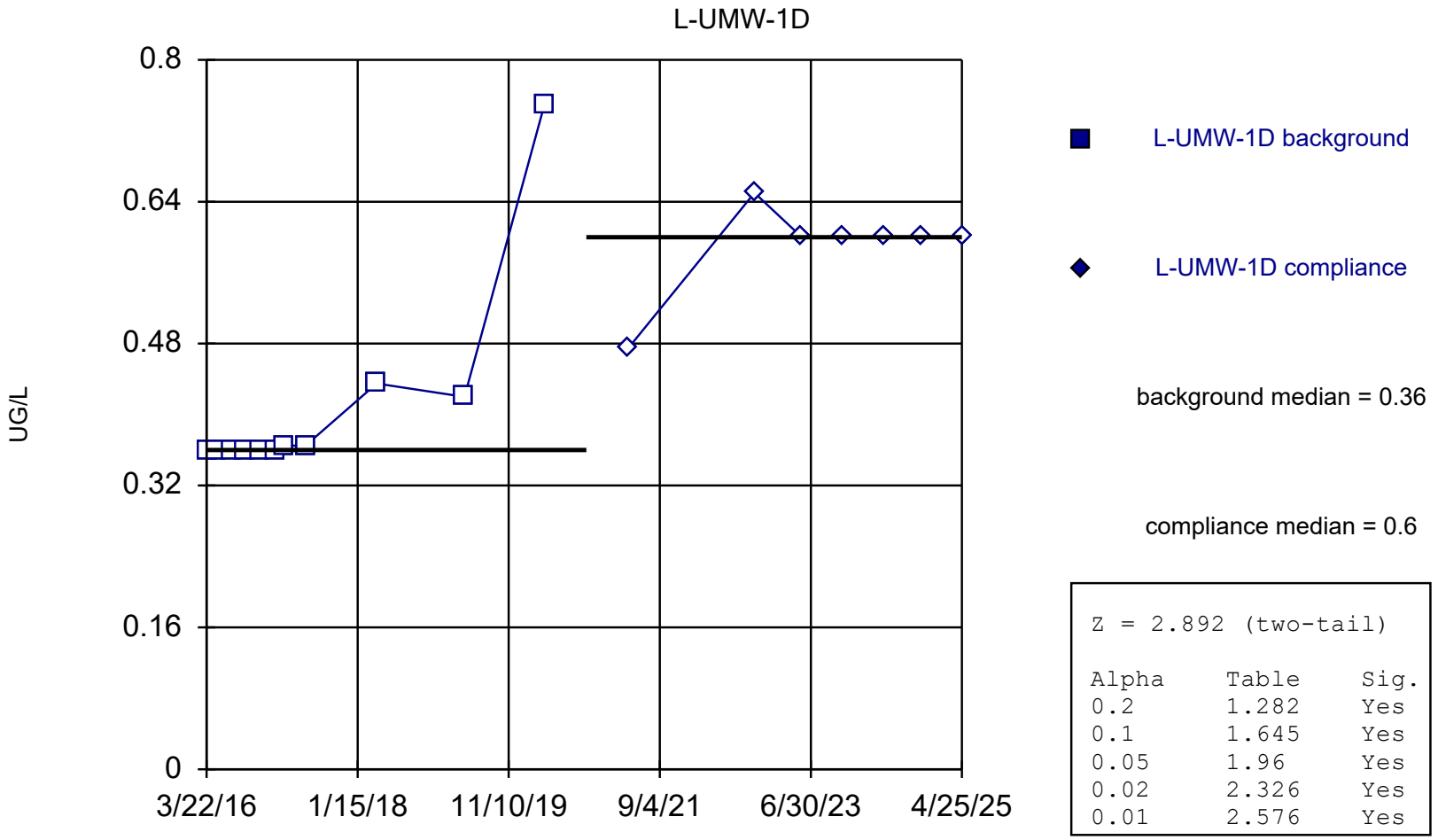
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	Yes
0.02	2.326	No
0.01	2.576	No

Constituent: CHROMIUM, TOTAL Analysis Run 8/27/2025 3:55 PM

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)



Z = 2.892 (two-tail)

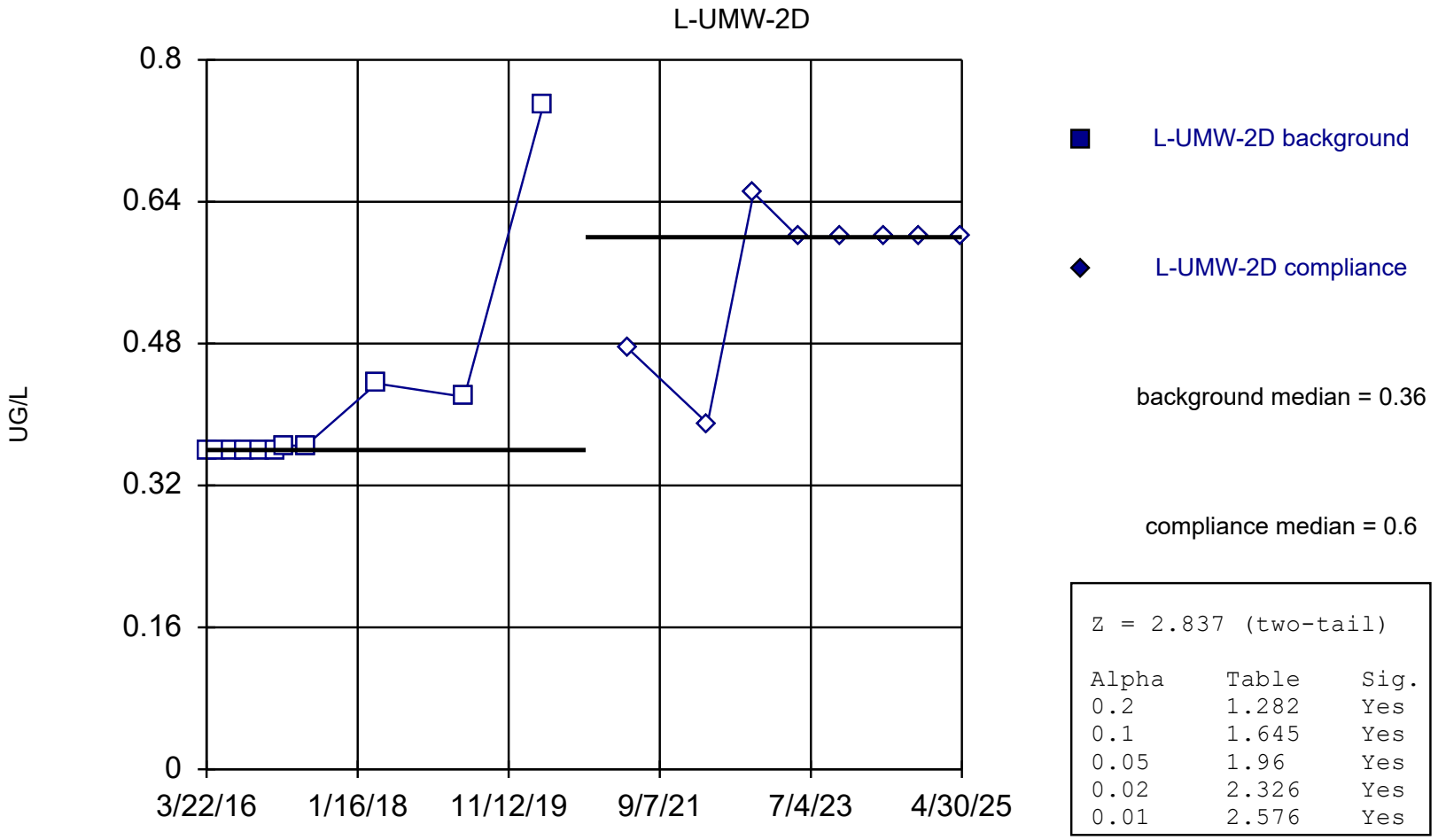
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	Yes
0.02	2.326	Yes
0.01	2.576	Yes

Constituent: COBALT, TOTAL Analysis Run 8/27/2025 3:55 PM

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)



Z = 2.837 (two-tail)

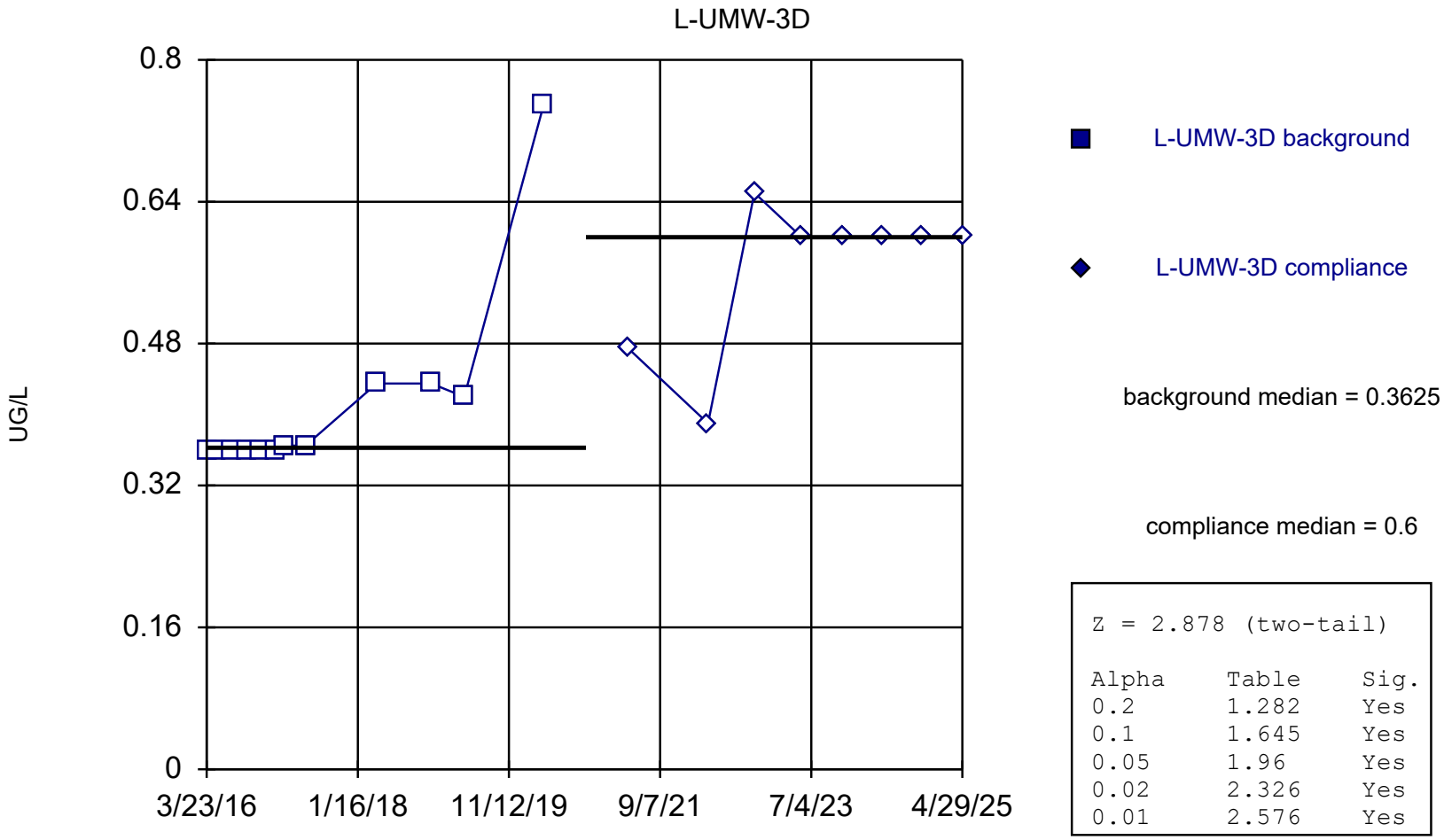
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	Yes
0.02	2.326	Yes
0.01	2.576	Yes

Constituent: COBALT, TOTAL Analysis Run 8/27/2025 3:55 PM

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)



Z = 2.878 (two-tail)

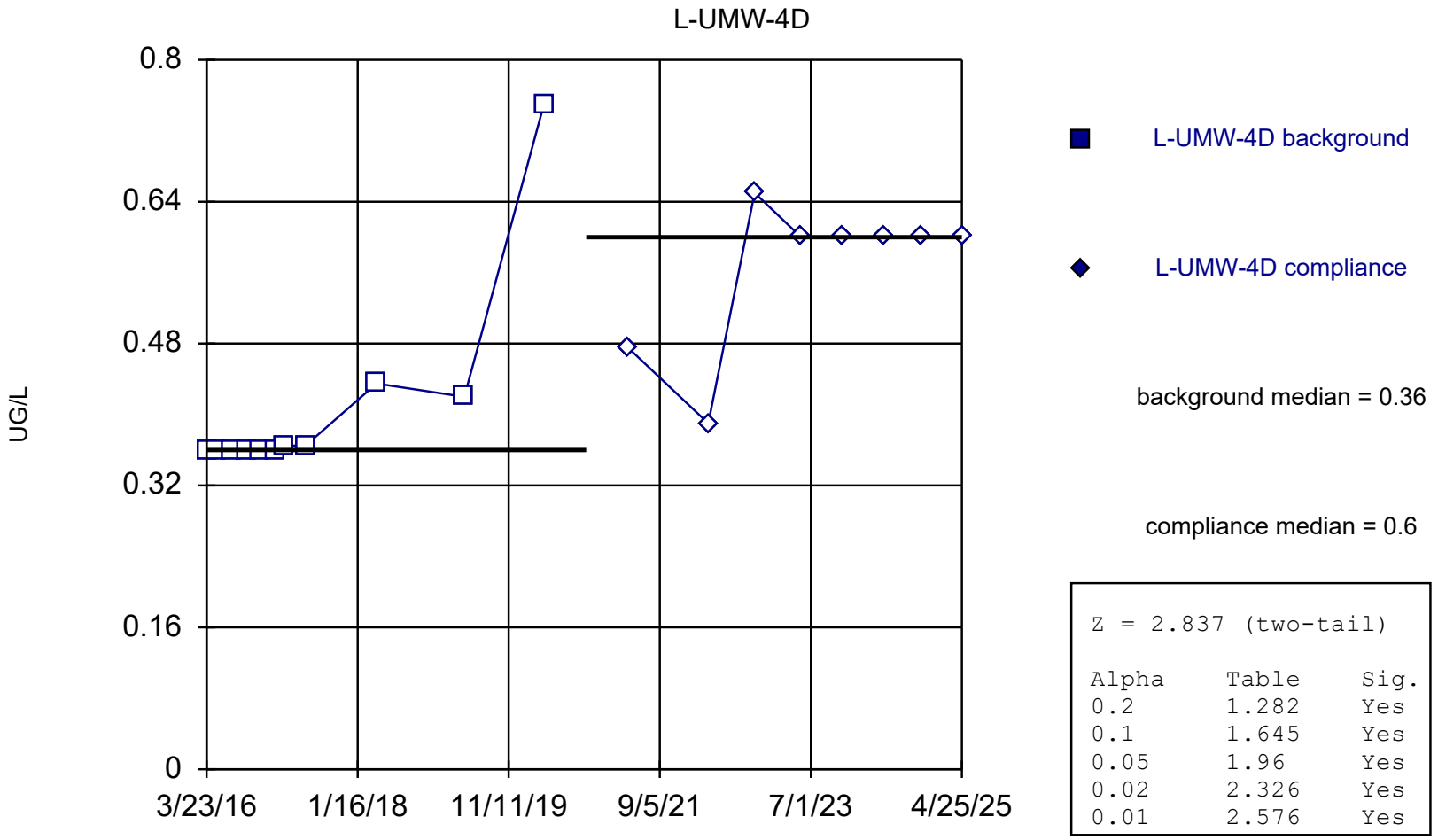
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	Yes
0.02	2.326	Yes
0.01	2.576	Yes

Constituent: COBALT, TOTAL Analysis Run 8/27/2025 3:55 PM

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)



Z = 2.837 (two-tail)

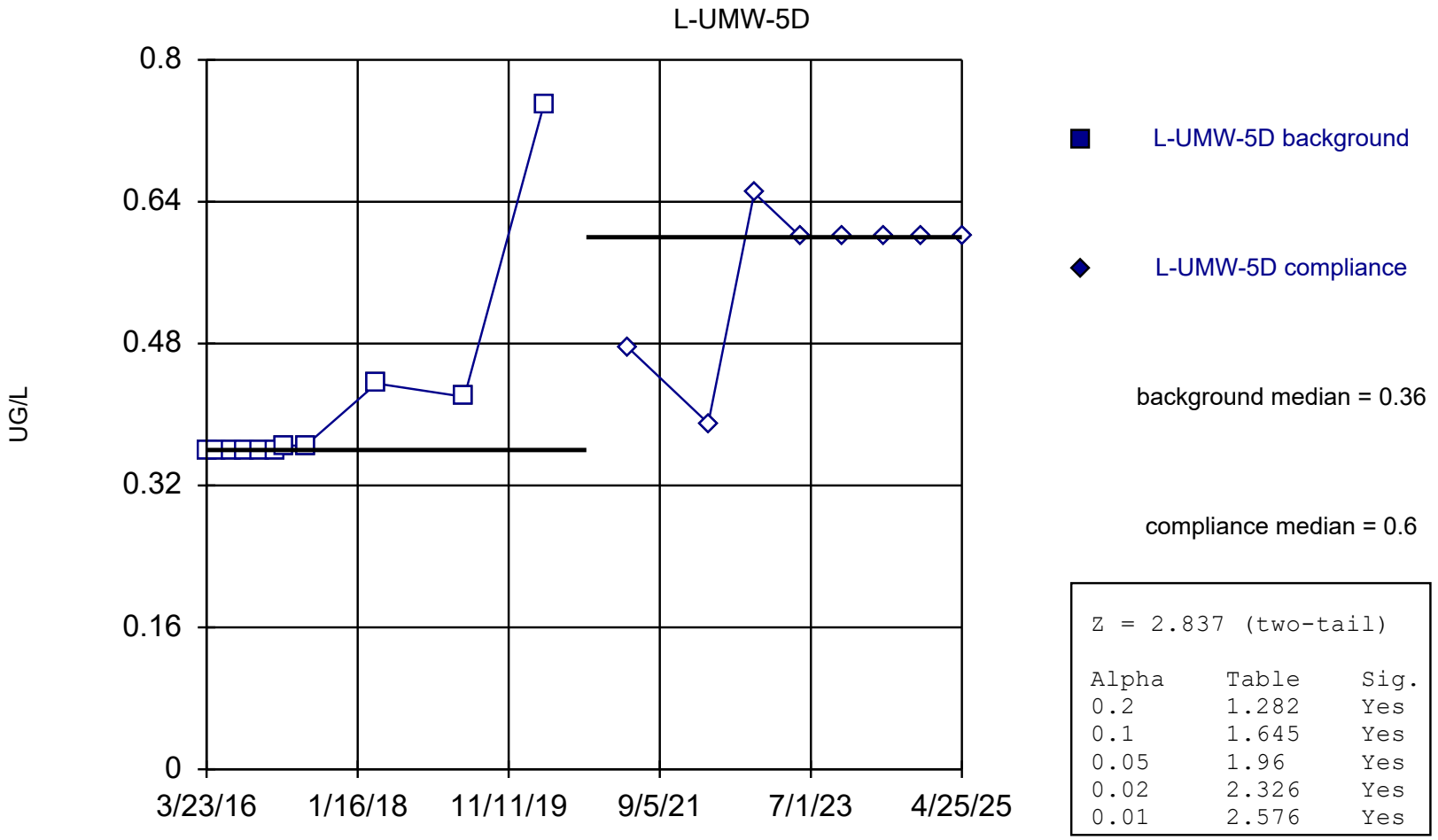
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	Yes
0.02	2.326	Yes
0.01	2.576	Yes

Constituent: COBALT, TOTAL Analysis Run 8/27/2025 3:55 PM

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)



Z = 2.837 (two-tail)

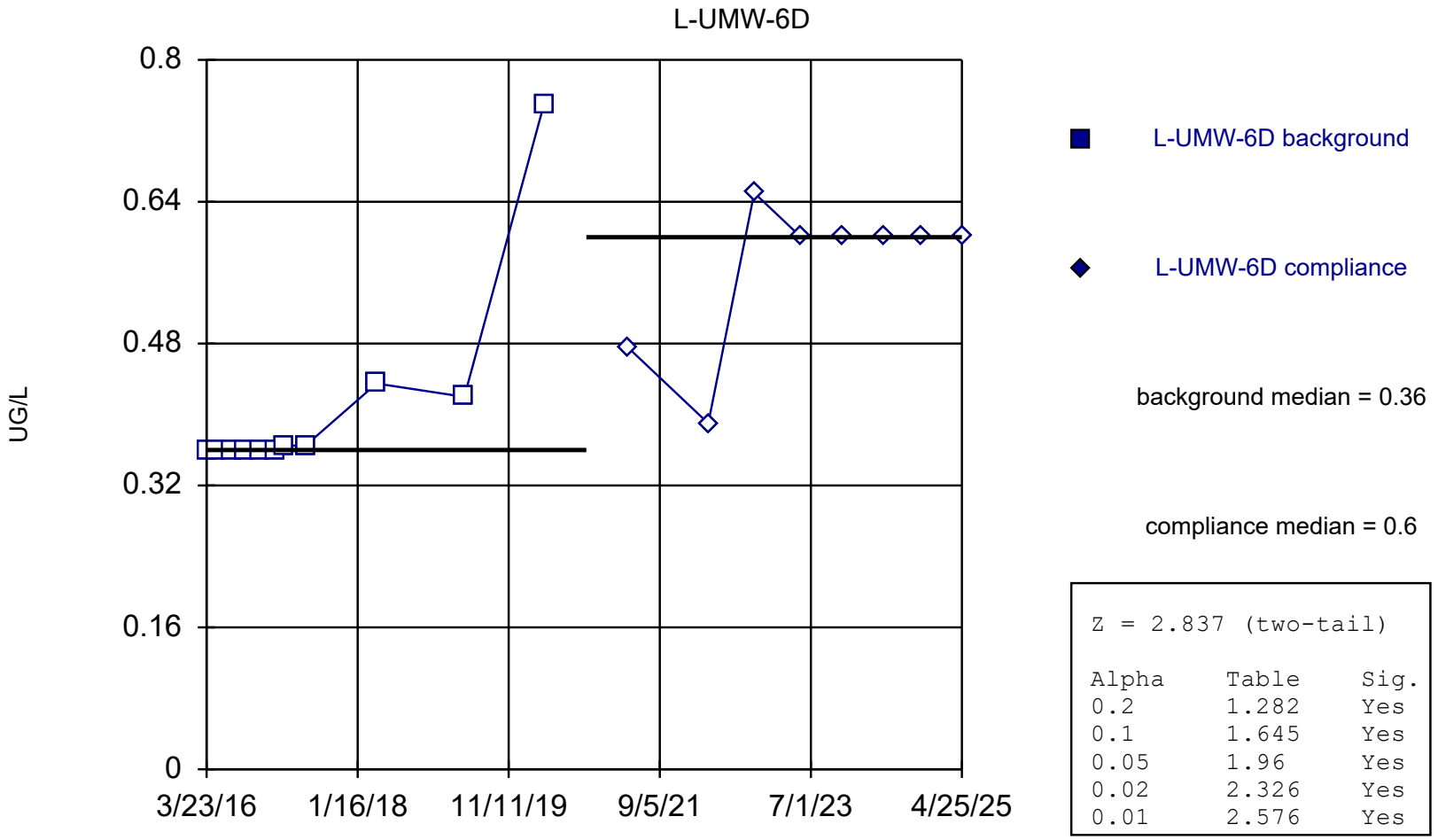
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	Yes
0.02	2.326	Yes
0.01	2.576	Yes

Constituent: COBALT, TOTAL Analysis Run 8/27/2025 3:55 PM

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)



Z = 2.837 (two-tail)

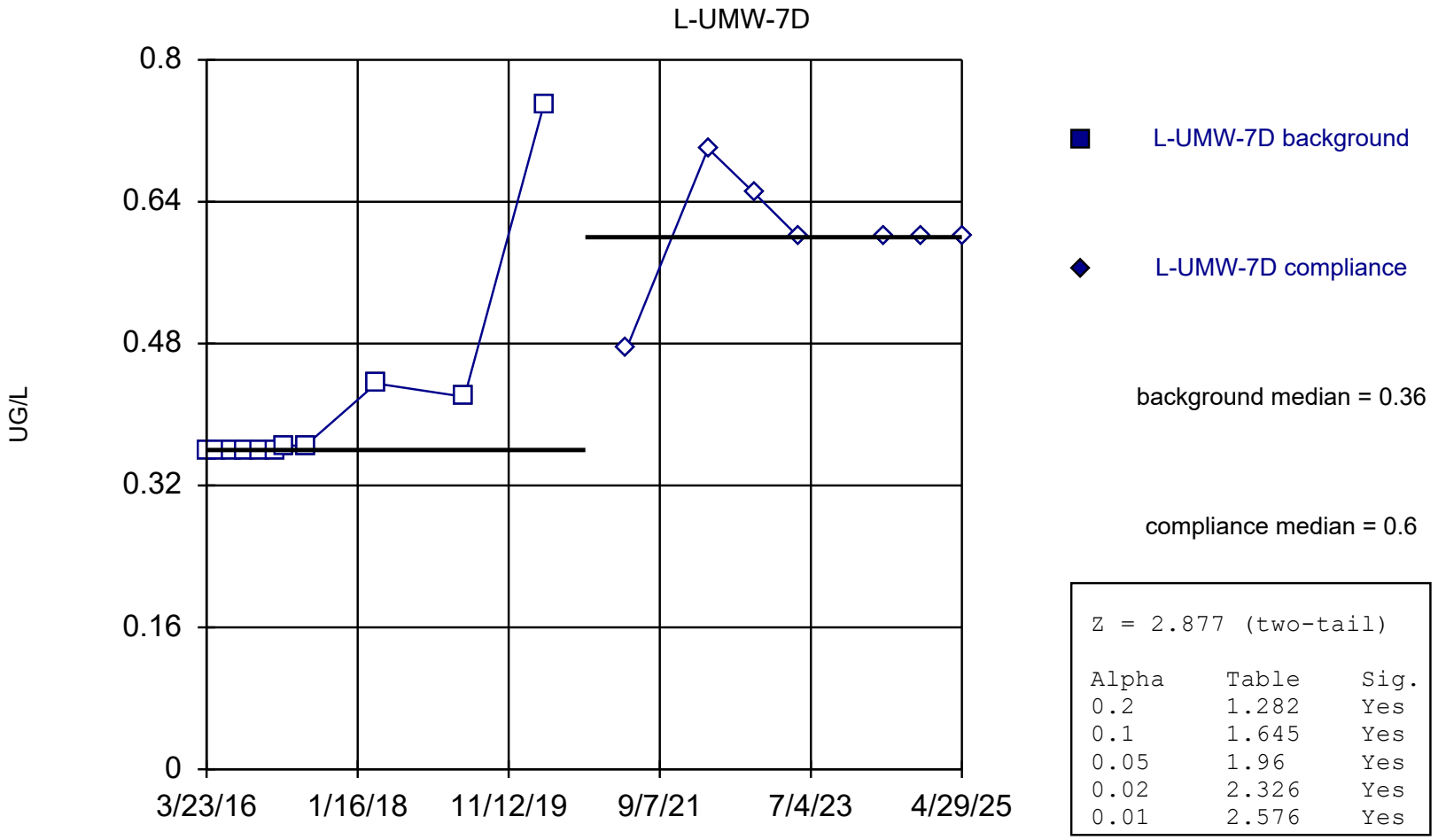
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	Yes
0.02	2.326	Yes
0.01	2.576	Yes

Constituent: COBALT, TOTAL Analysis Run 8/27/2025 3:55 PM

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)



Z = 2.877 (two-tail)

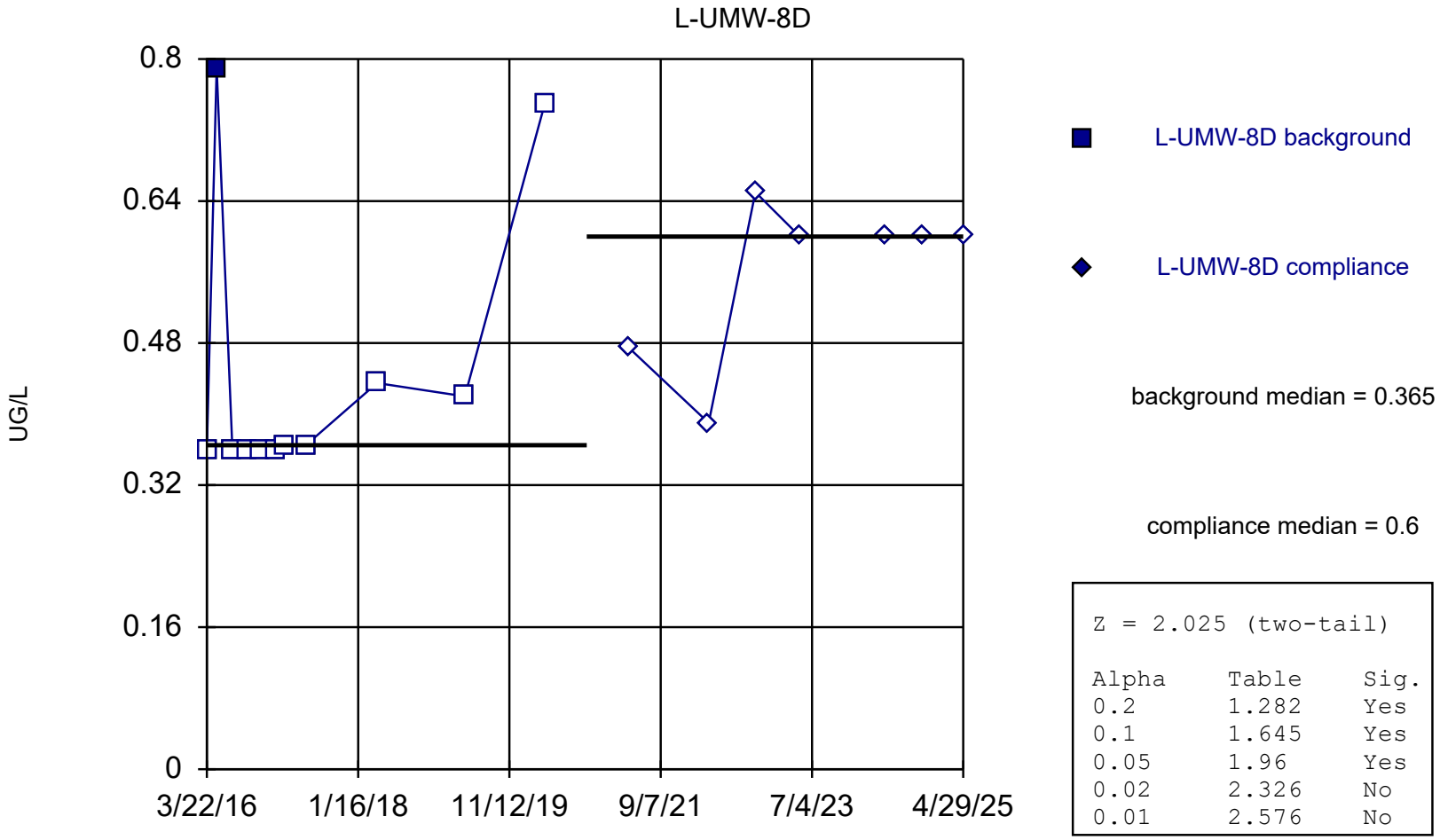
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	Yes
0.02	2.326	Yes
0.01	2.576	Yes

Constituent: COBALT, TOTAL Analysis Run 8/27/2025 3:55 PM

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)



Z = 2.025 (two-tail)

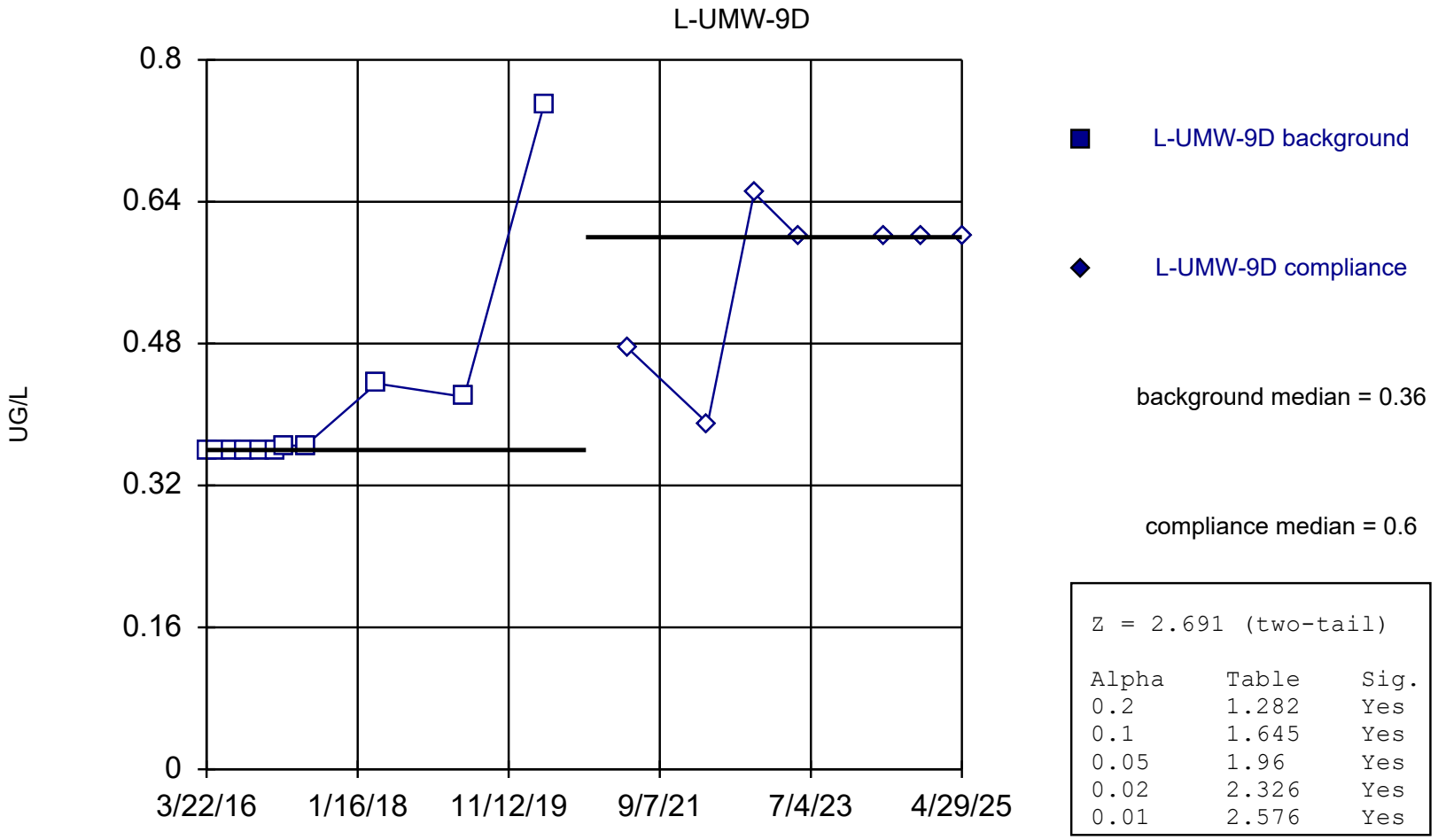
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	Yes
0.02	2.326	No
0.01	2.576	No

Constituent: COBALT, TOTAL Analysis Run 8/27/2025 3:55 PM

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)



Z = 2.691 (two-tail)

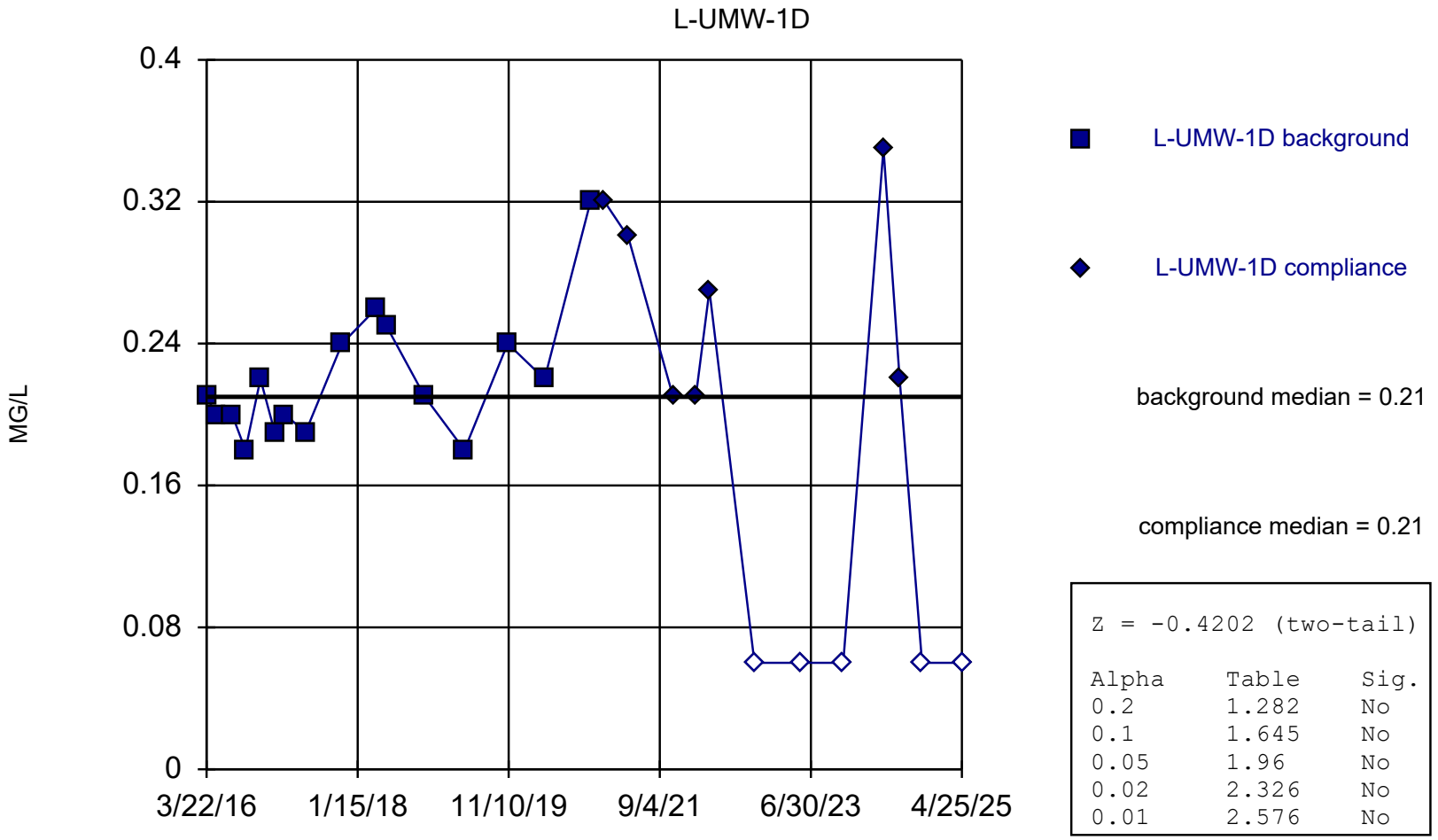
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	Yes
0.02	2.326	Yes
0.01	2.576	Yes

Constituent: COBALT, TOTAL Analysis Run 8/27/2025 3:55 PM

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)



Z = -0.4202 (two-tail)

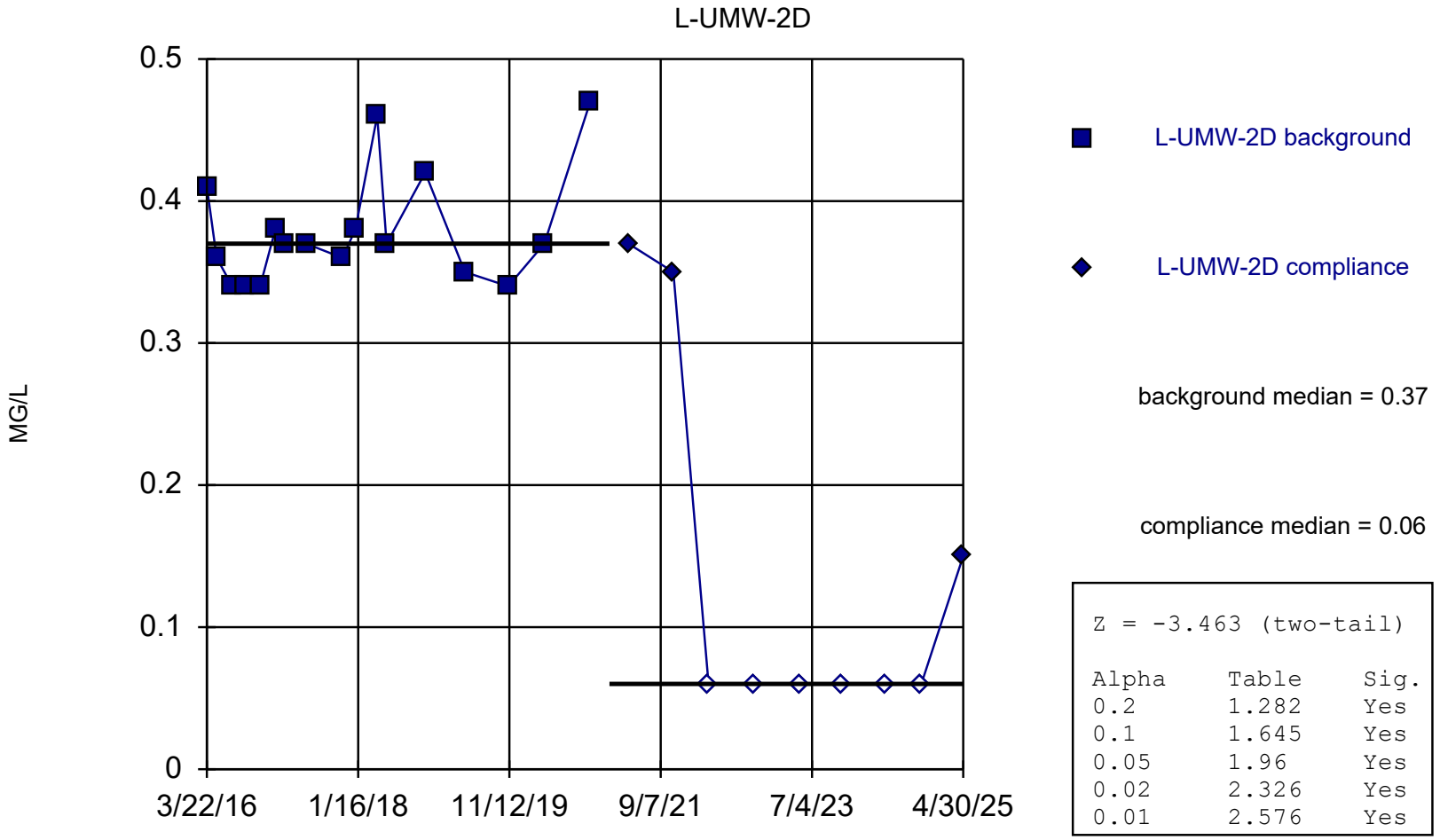
Alpha	Table	Sig.
0.2	1.282	No
0.1	1.645	No
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: FLUORIDE, TOTAL Analysis Run 8/27/2025 3:55 PM

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)



Z = -3.463 (two-tail)

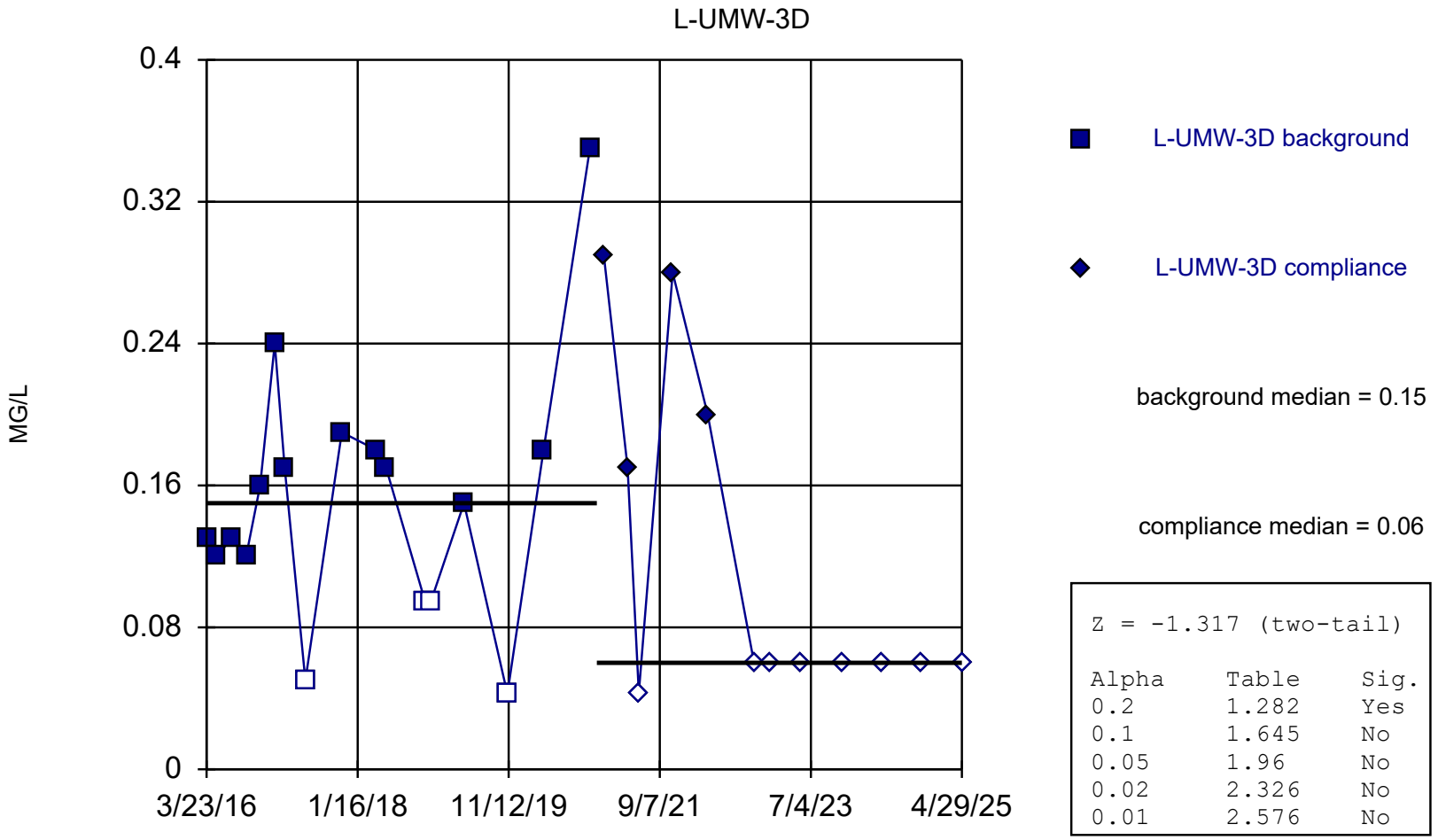
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	Yes
0.02	2.326	Yes
0.01	2.576	Yes

Constituent: FLUORIDE, TOTAL Analysis Run 8/27/2025 3:55 PM

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)



Z = -1.317 (two-tail)

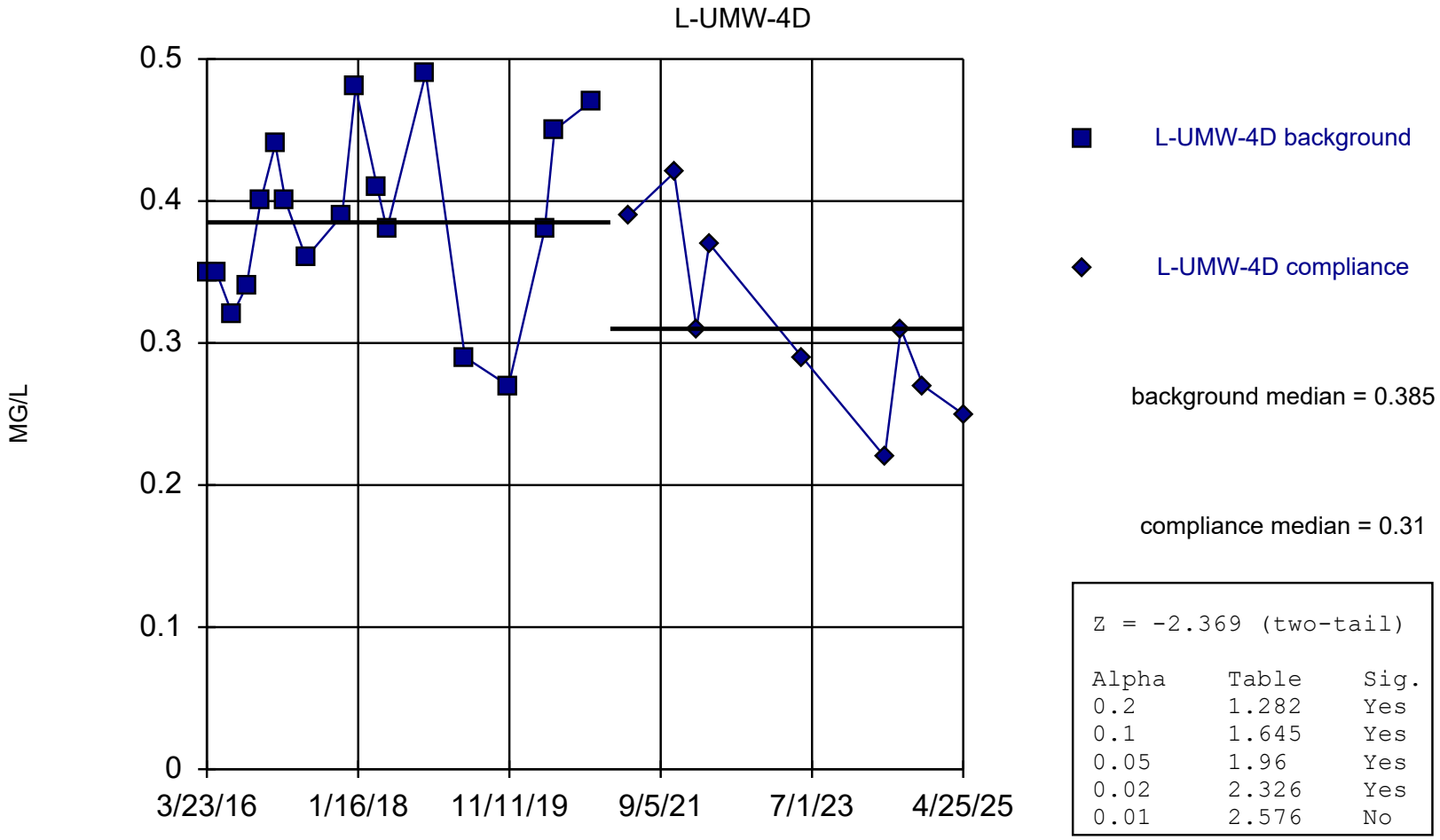
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	No
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: FLUORIDE, TOTAL Analysis Run 8/27/2025 3:55 PM

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG

Mann-Whitney (Wilcoxon Rank Sum)



Z = -2.369 (two-tail)

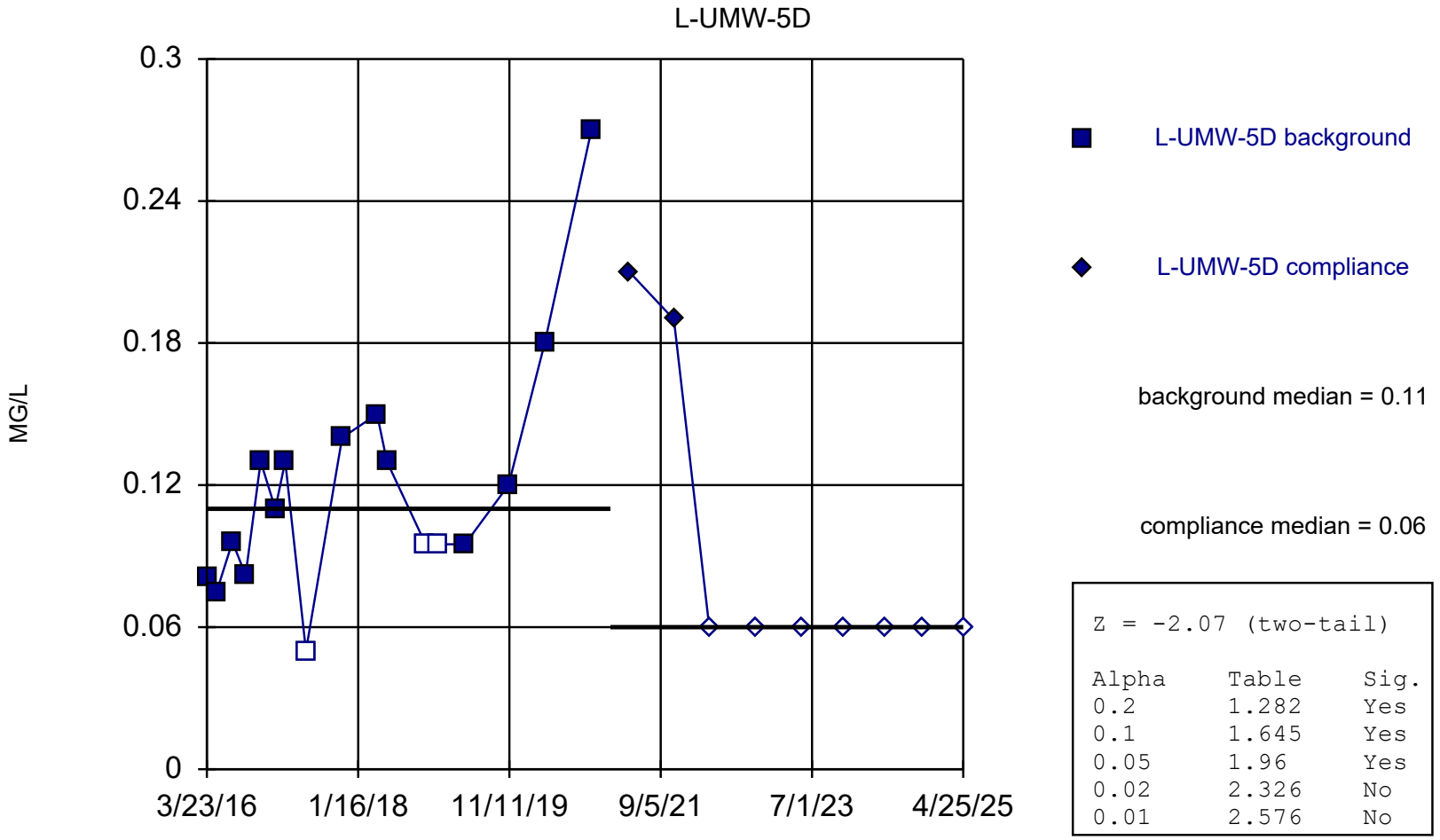
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	Yes
0.02	2.326	Yes
0.01	2.576	No

Constituent: FLUORIDE, TOTAL Analysis Run 8/27/2025 3:55 PM

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)



Z = -2.07 (two-tail)

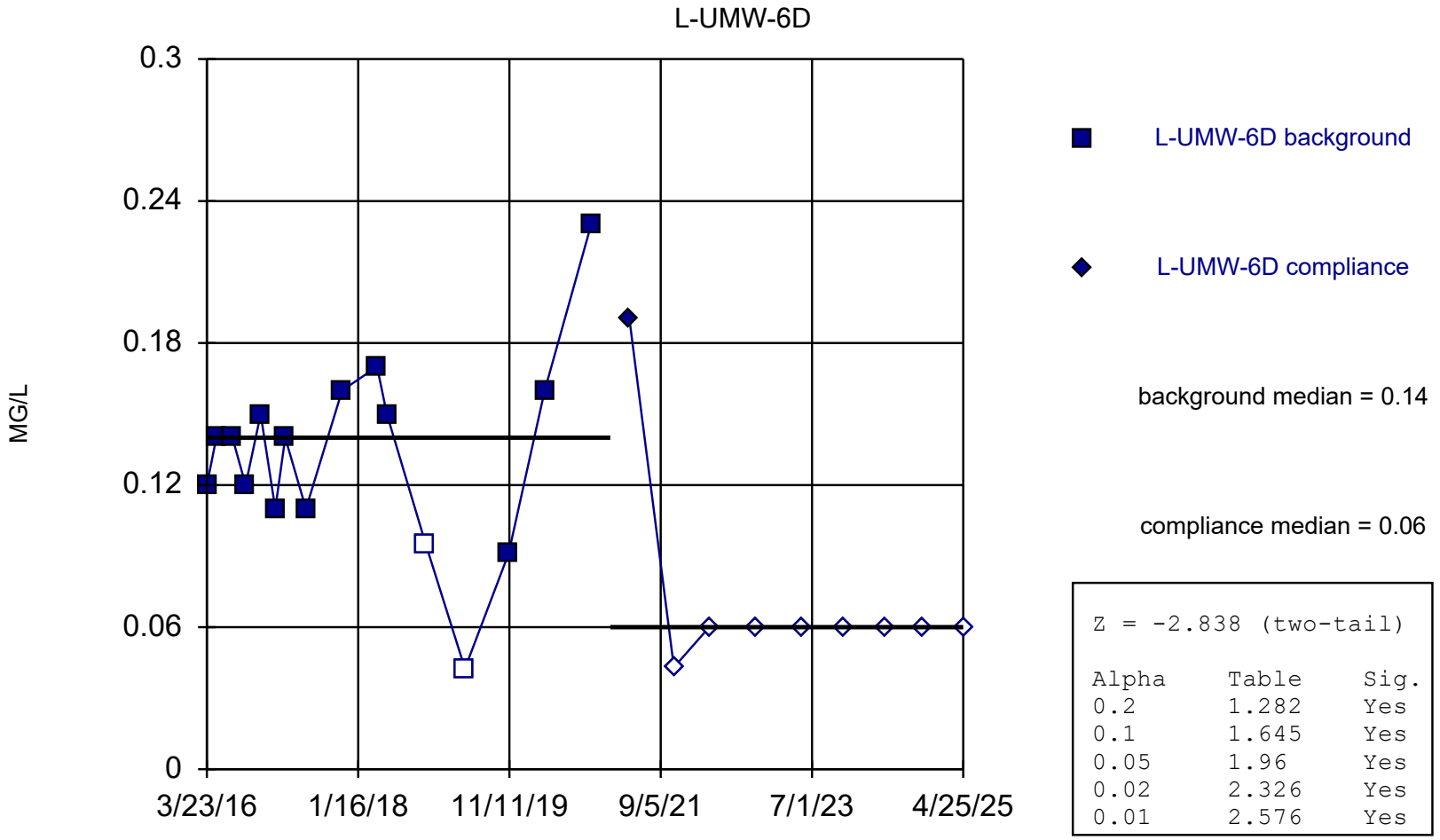
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	Yes
0.02	2.326	No
0.01	2.576	No

Constituent: FLUORIDE, TOTAL Analysis Run 8/27/2025 3:55 PM

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)



Z = -2.838 (two-tail)

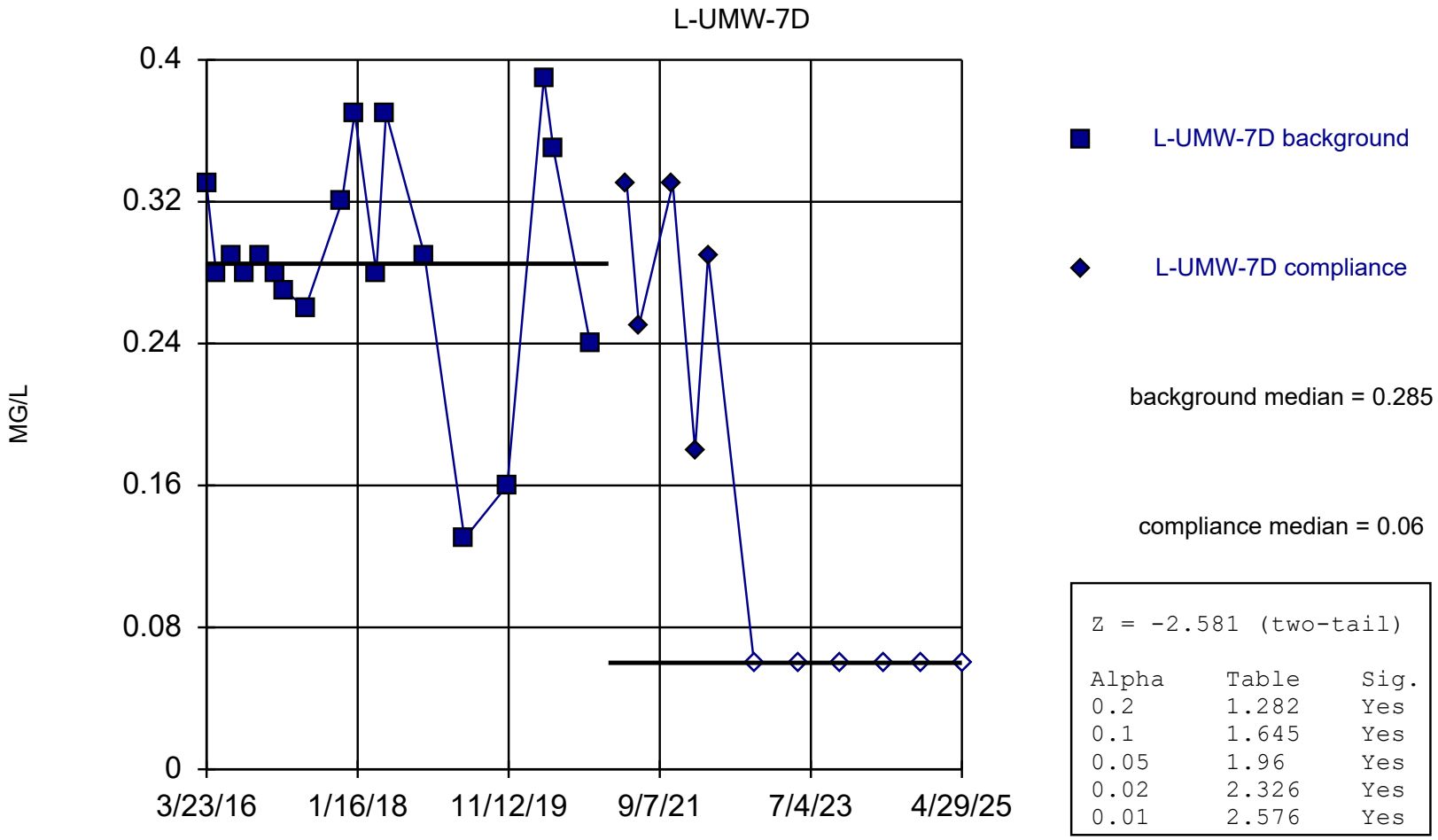
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	Yes
0.02	2.326	Yes
0.01	2.576	Yes

Constituent: FLUORIDE, TOTAL Analysis Run 8/27/2025 3:55 PM

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)



Z = -2.581 (two-tail)

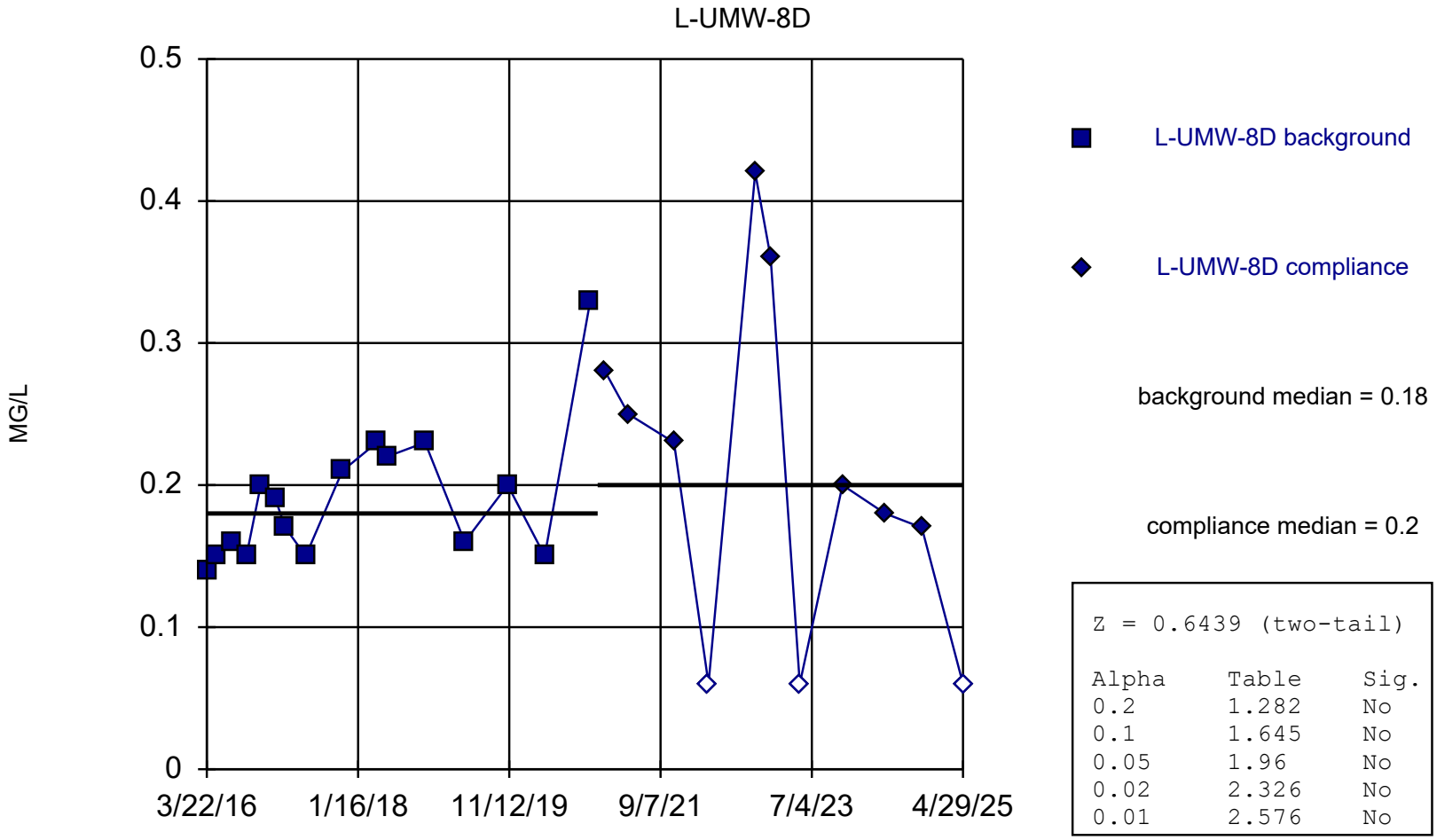
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	Yes
0.02	2.326	Yes
0.01	2.576	Yes

Constituent: FLUORIDE, TOTAL Analysis Run 8/27/2025 3:55 PM

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)



Z = 0.6439 (two-tail)

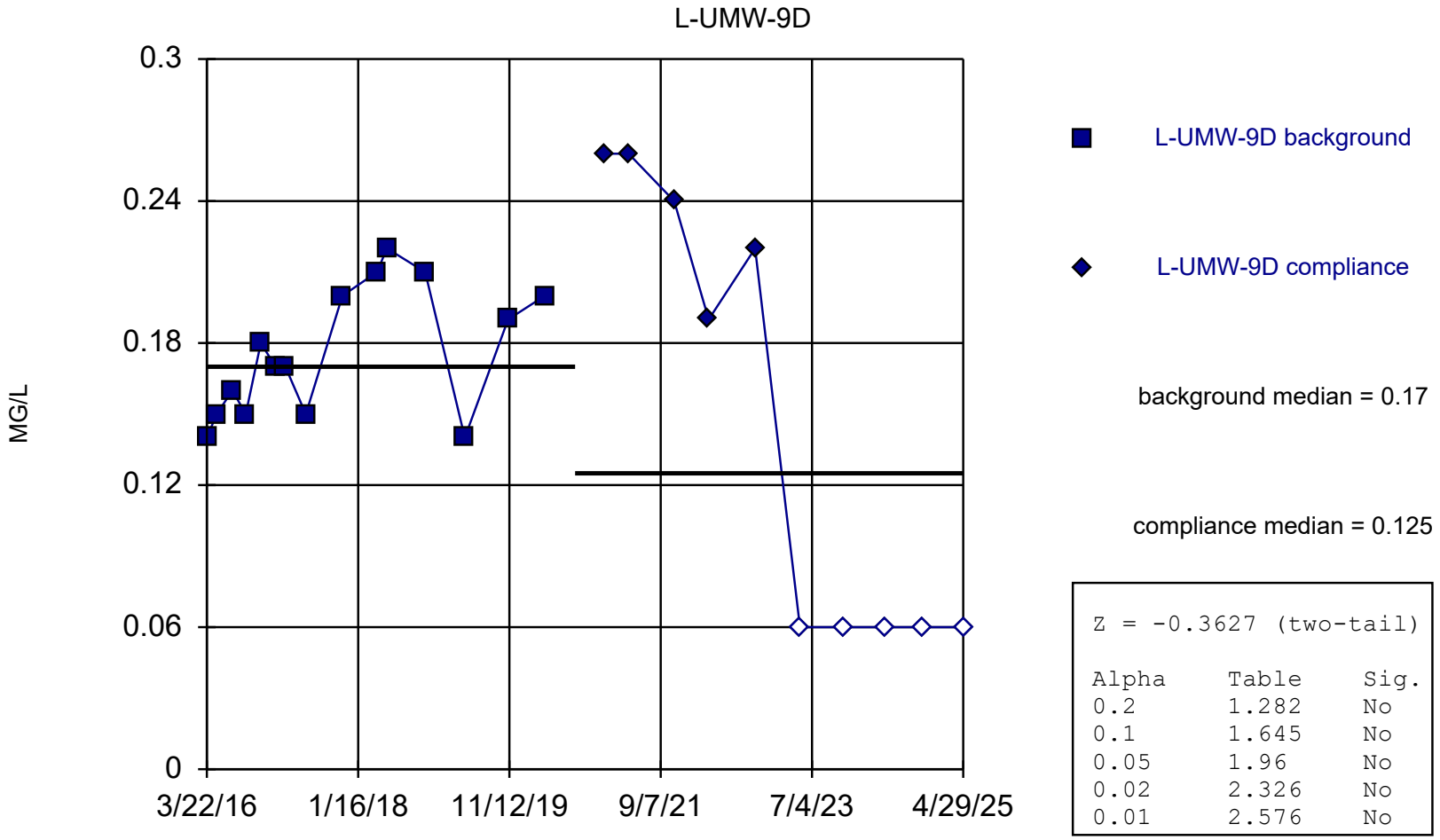
Alpha	Table	Sig.
0.2	1.282	No
0.1	1.645	No
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: FLUORIDE, TOTAL Analysis Run 8/27/2025 3:55 PM

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)



Z = -0.3627 (two-tail)

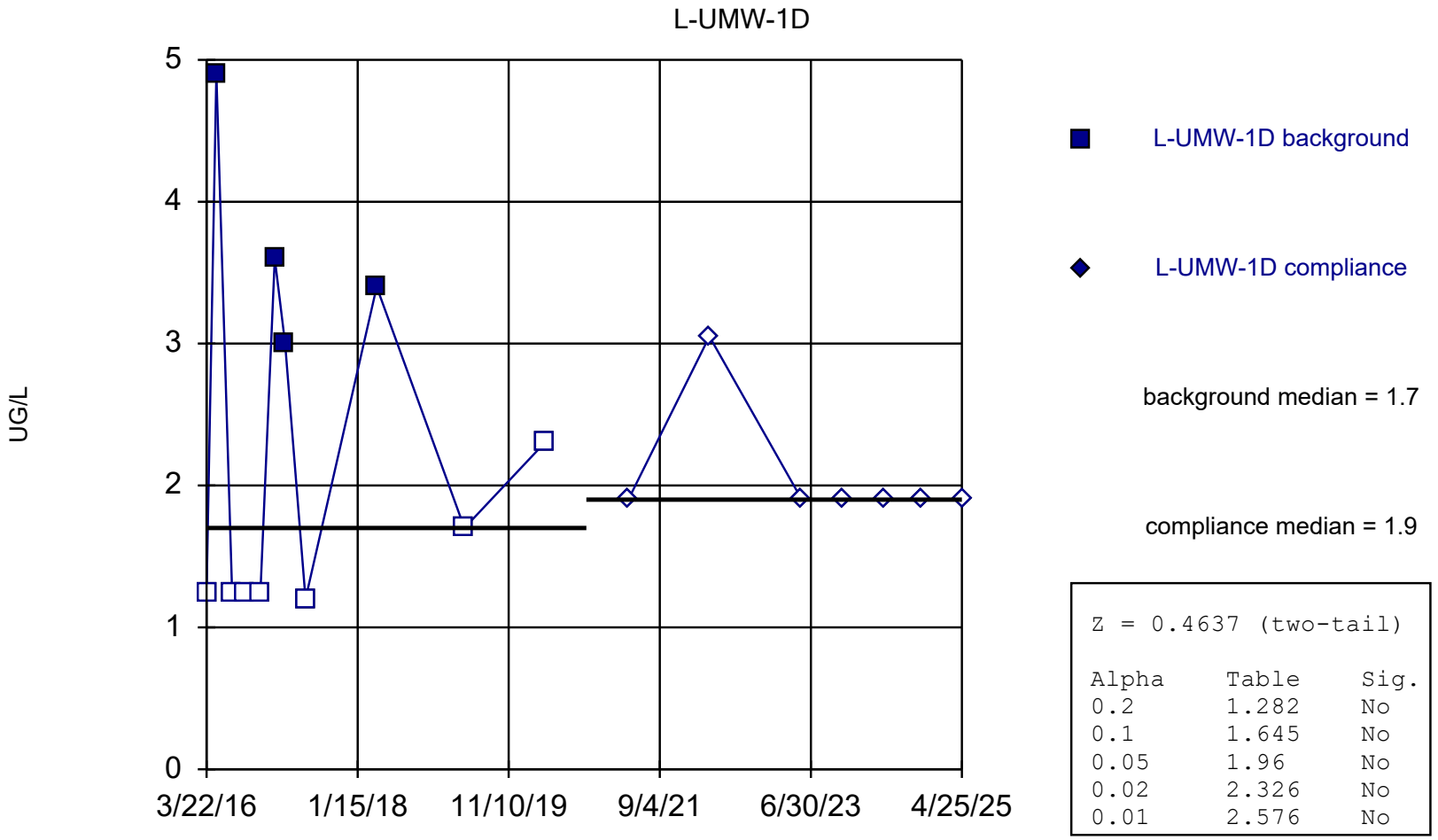
Alpha	Table	Sig.
0.2	1.282	No
0.1	1.645	No
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: FLUORIDE, TOTAL Analysis Run 8/27/2025 3:55 PM

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)



Z = 0.4637 (two-tail)

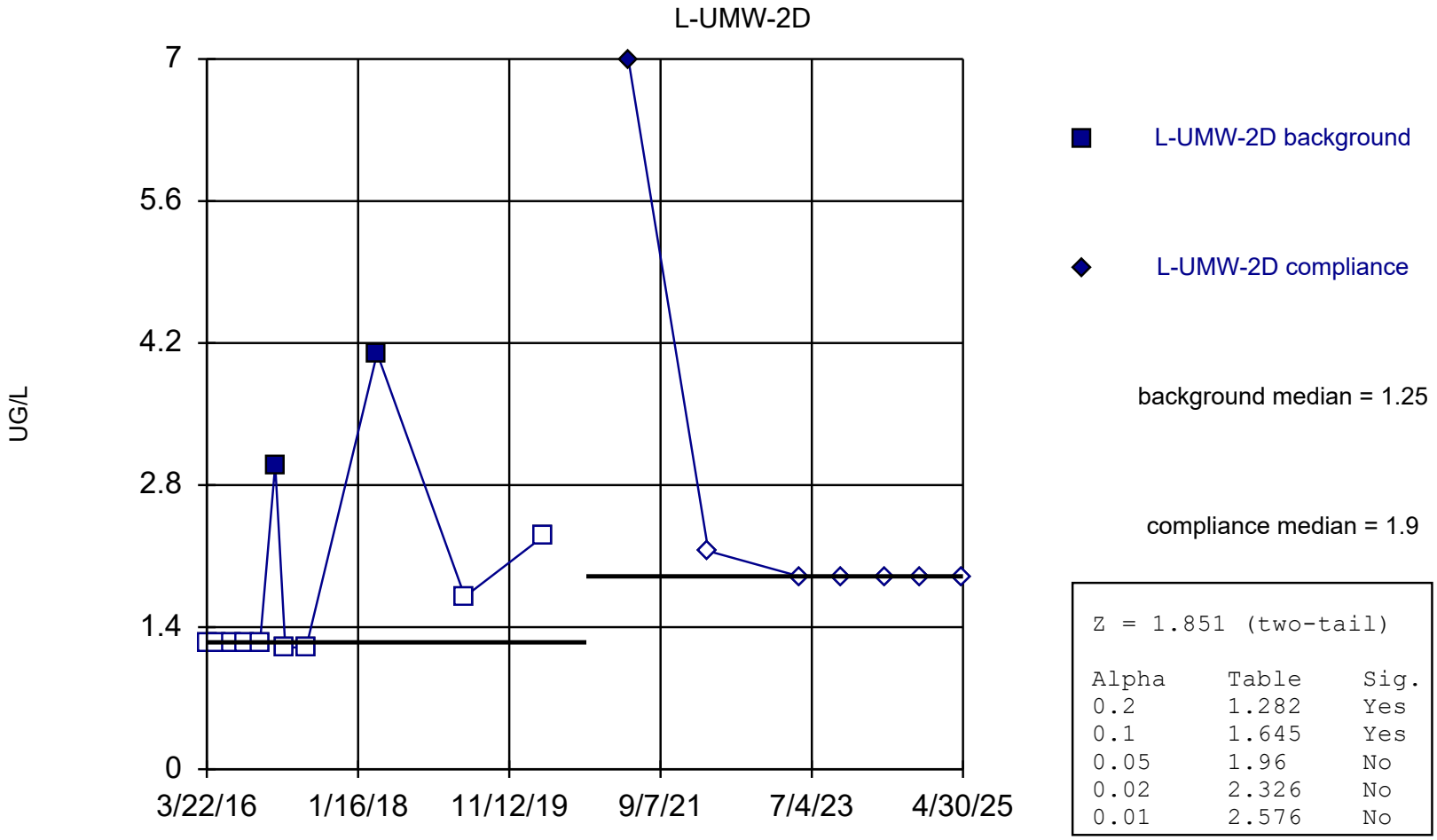
Alpha	Table	Sig.
0.2	1.282	No
0.1	1.645	No
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: LEAD, TOTAL Analysis Run 8/27/2025 3:55 PM

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)



Z = 1.851 (two-tail)

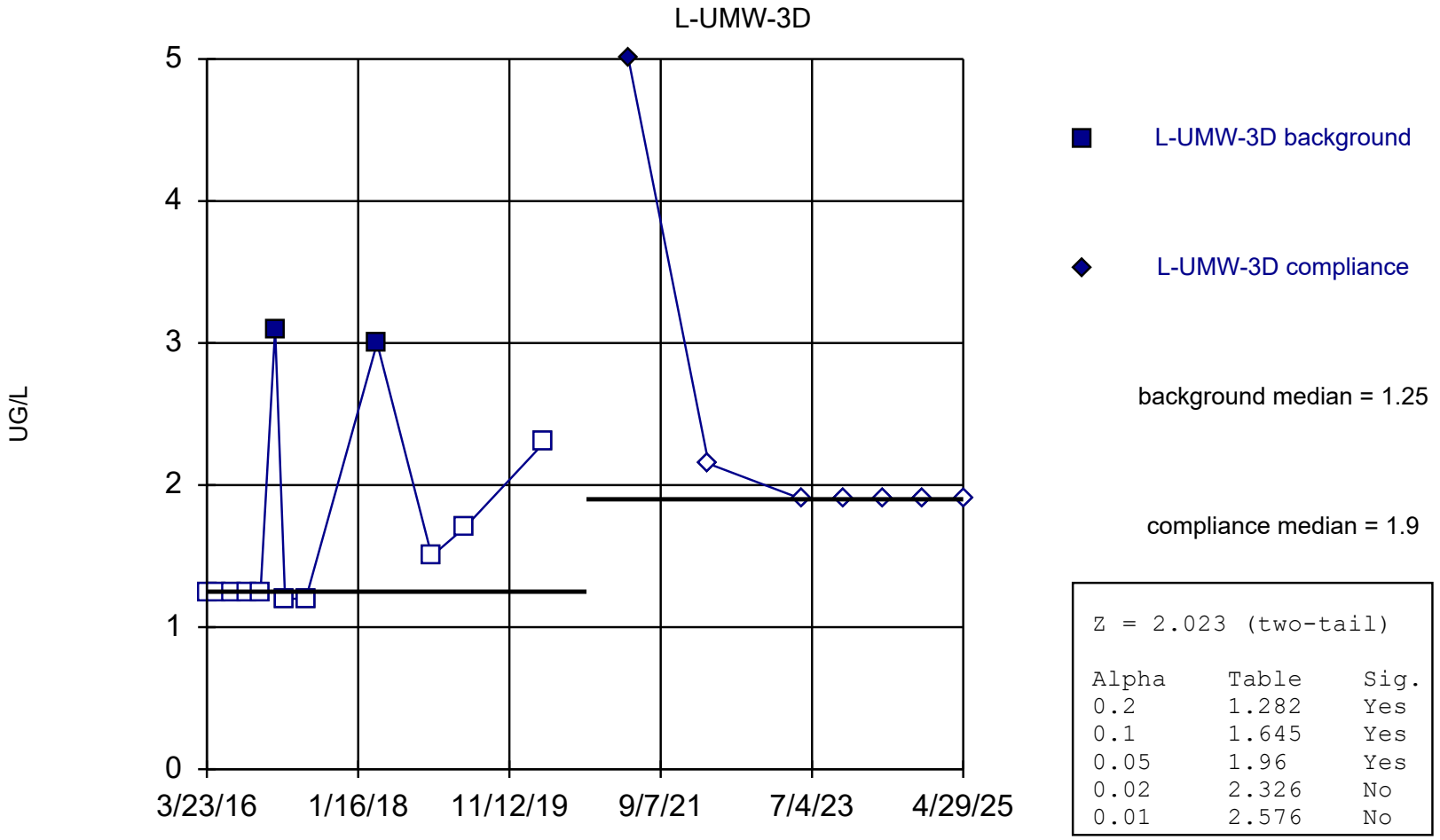
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: LEAD, TOTAL Analysis Run 8/27/2025 3:55 PM

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)



Z = 2.023 (two-tail)

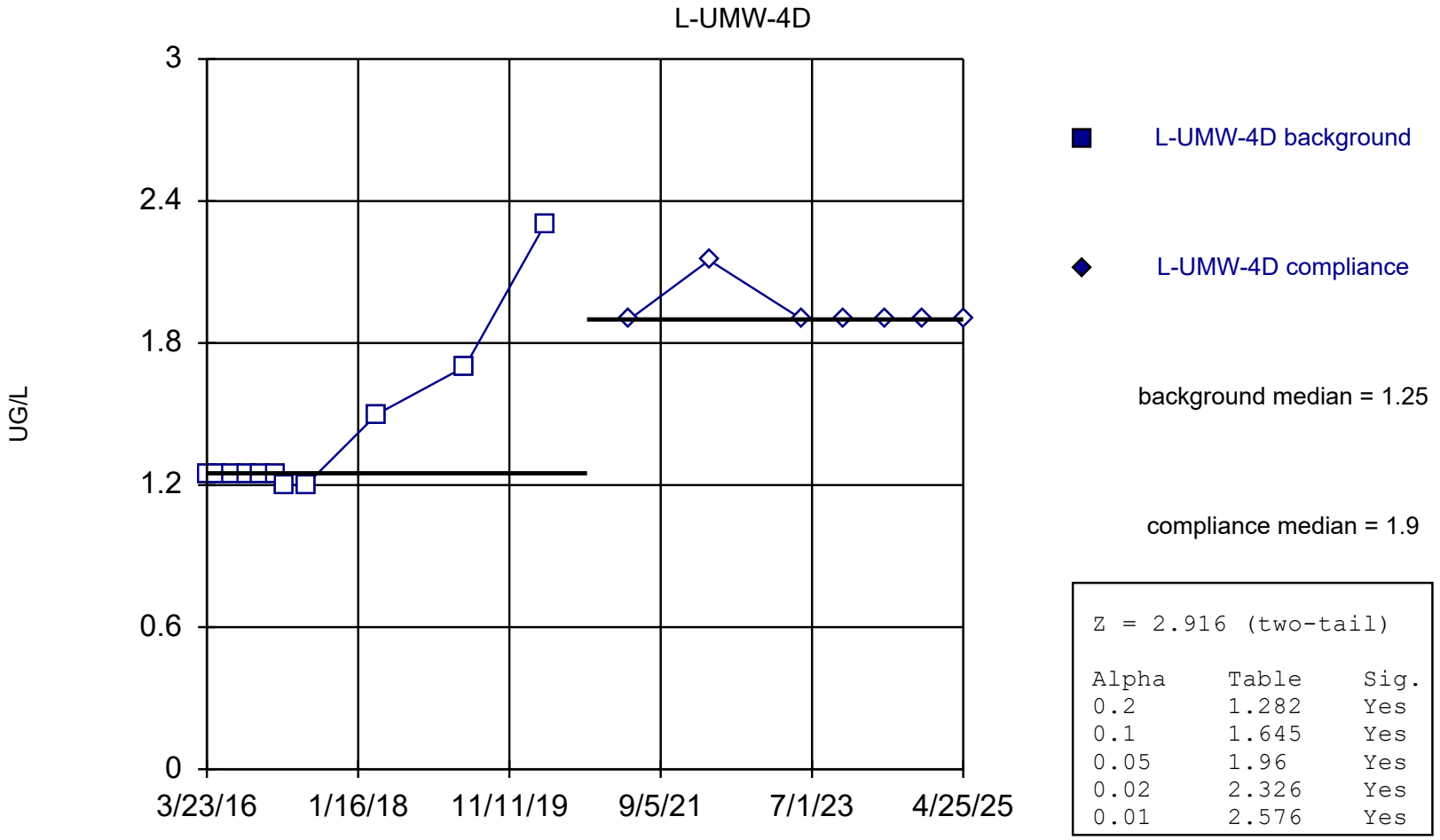
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	Yes
0.02	2.326	No
0.01	2.576	No

Constituent: LEAD, TOTAL Analysis Run 8/27/2025 3:56 PM

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)



Z = 2.916 (two-tail)

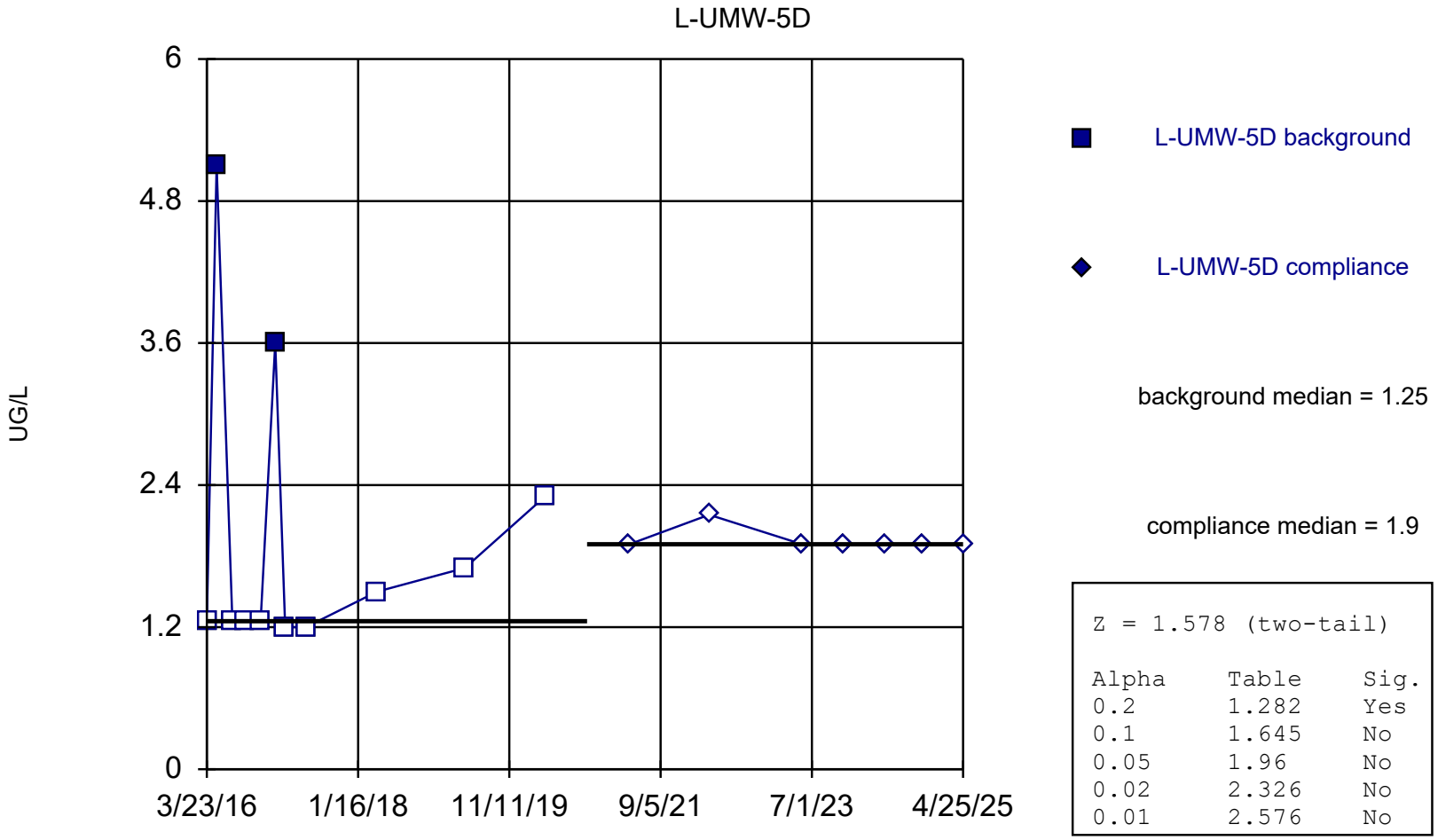
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	Yes
0.02	2.326	Yes
0.01	2.576	Yes

Constituent: LEAD, TOTAL Analysis Run 8/27/2025 3:56 PM

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)



Z = 1.578 (two-tail)

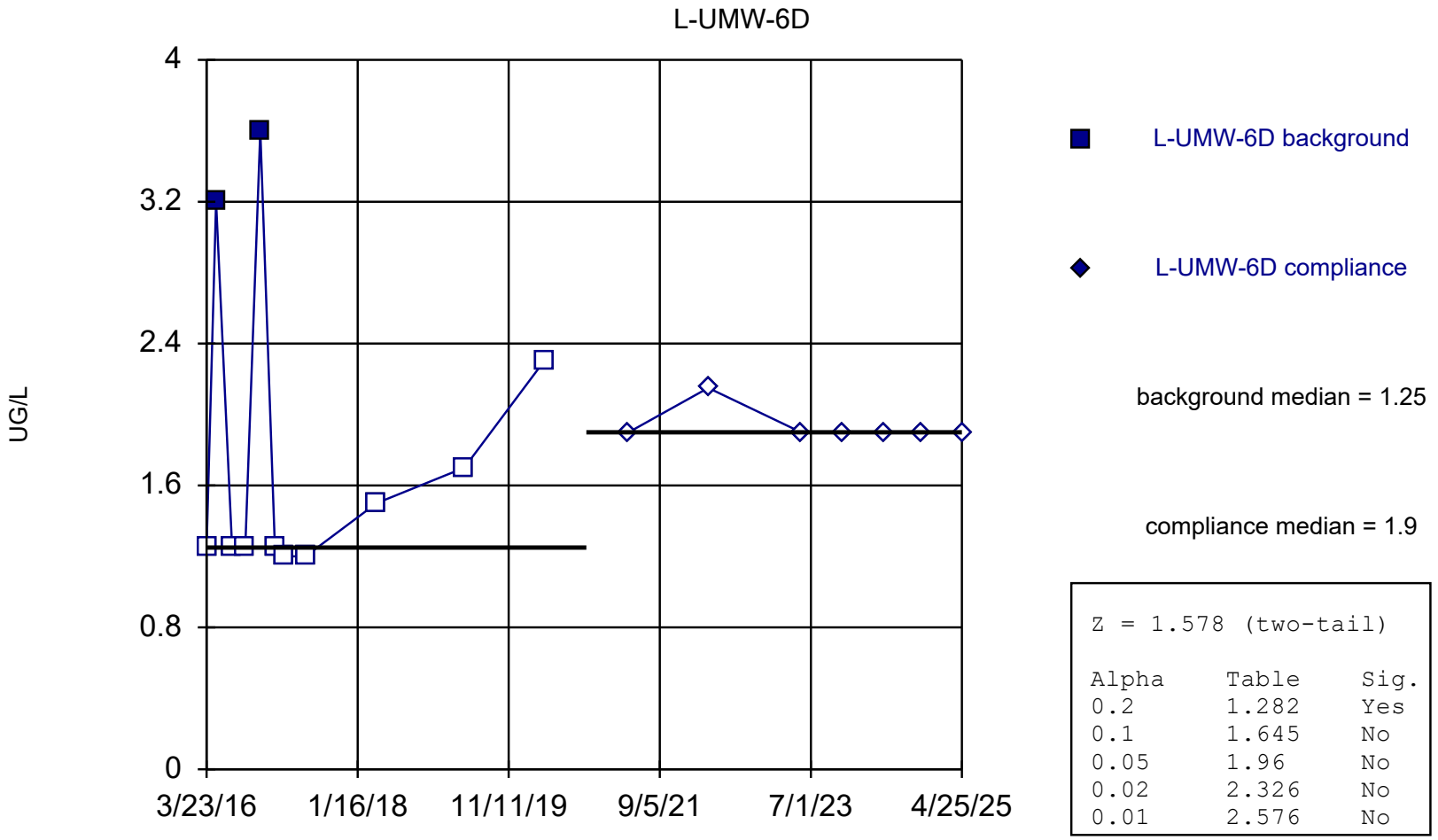
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	No
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: LEAD, TOTAL Analysis Run 8/27/2025 3:56 PM

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)



Z = 1.578 (two-tail)

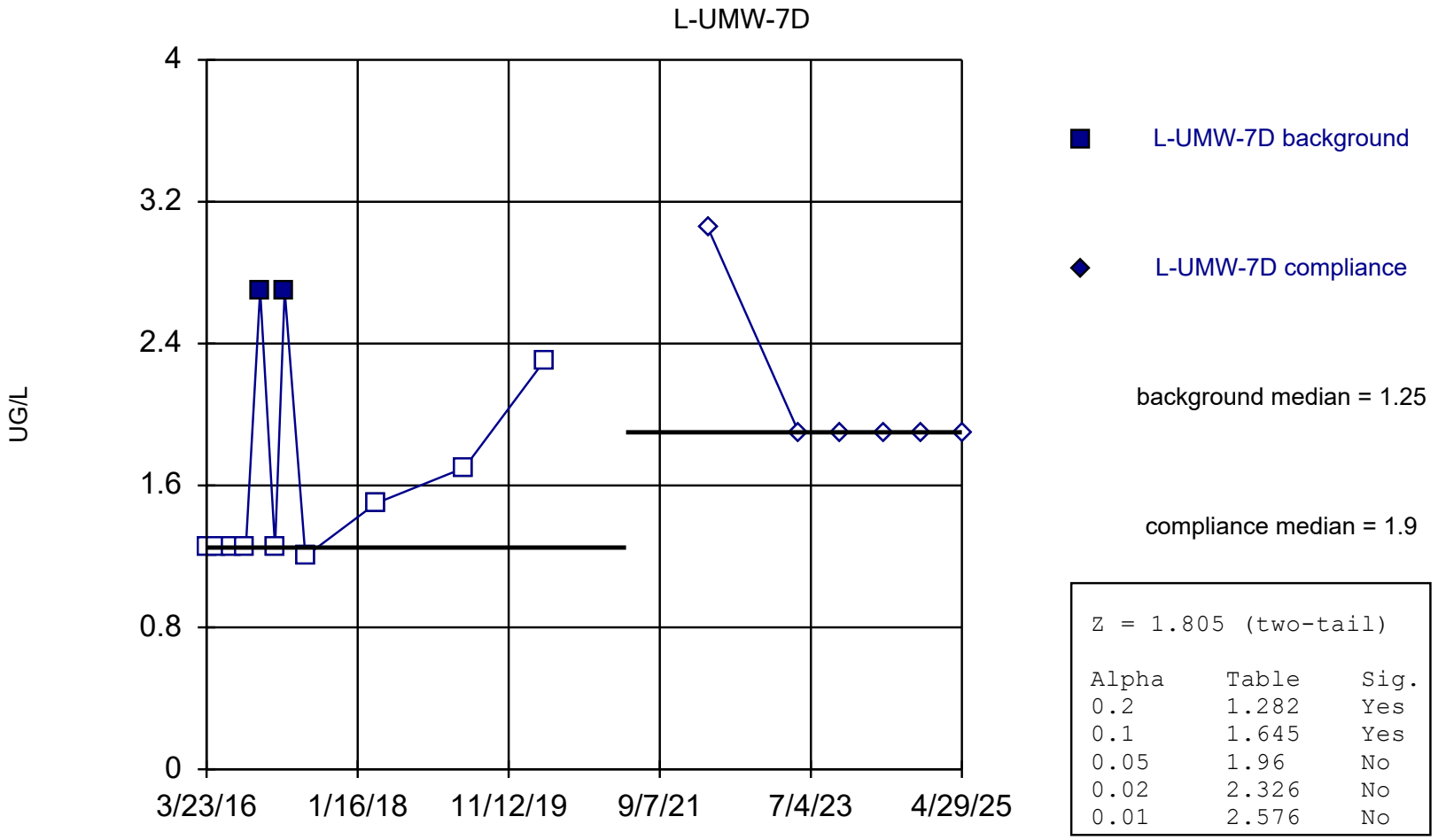
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	No
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: LEAD, TOTAL Analysis Run 8/27/2025 3:56 PM

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)



Z = 1.805 (two-tail)

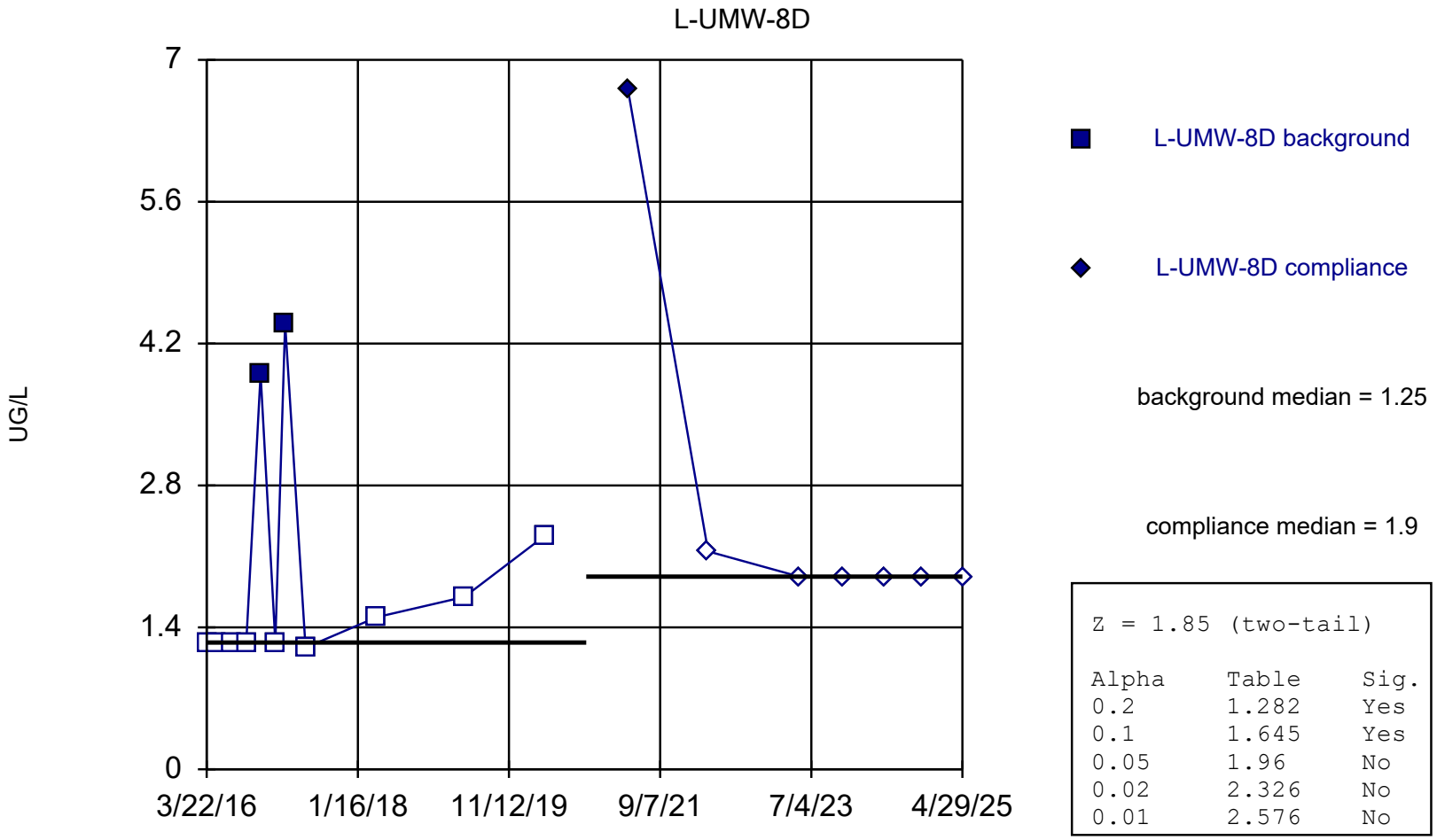
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: LEAD, TOTAL Analysis Run 8/27/2025 3:56 PM

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)




```
Z = 1.85 (two-tail)

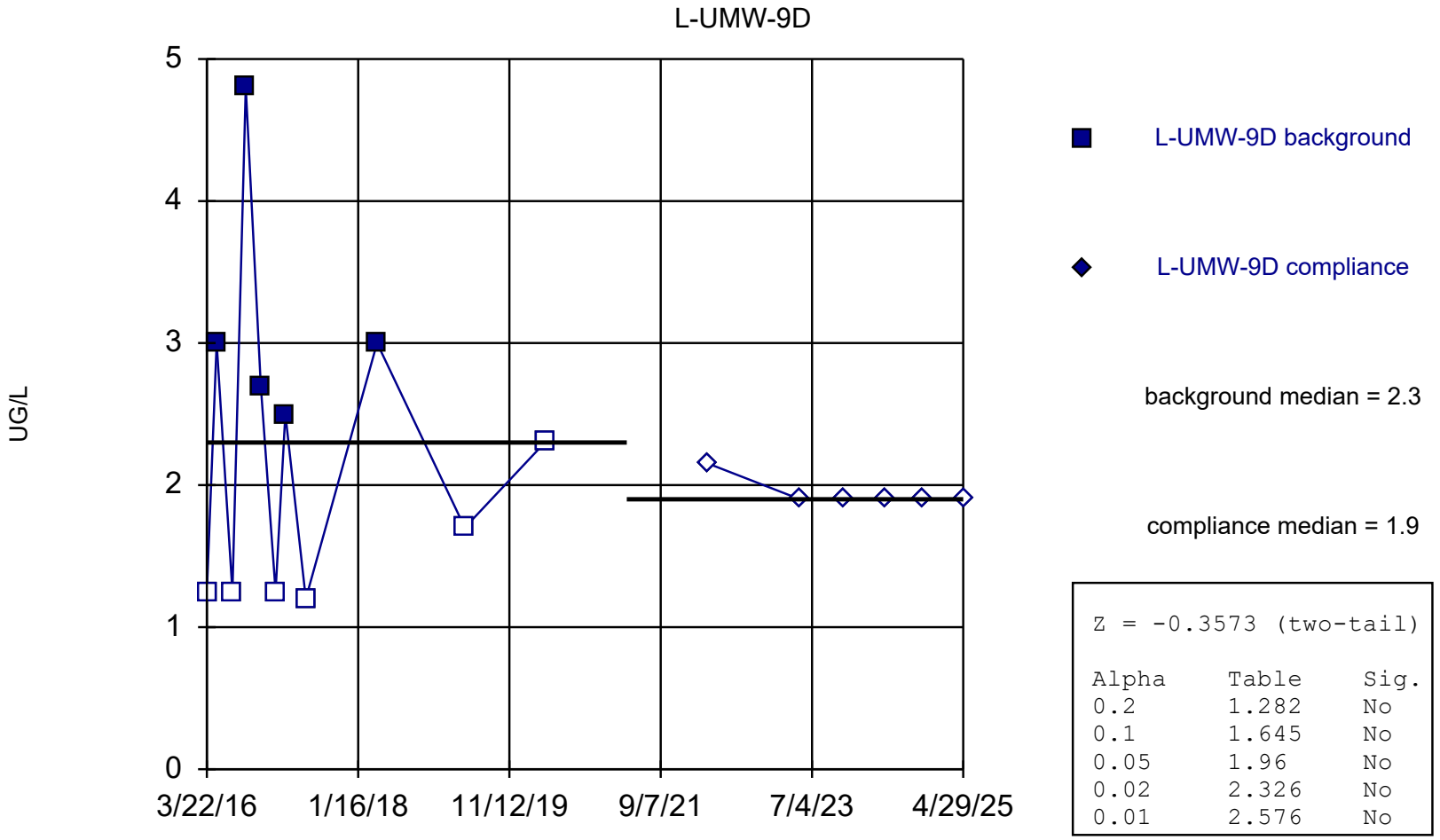
Alpha     Table     Sig.
0.2       1.282     Yes
0.1       1.645     Yes
0.05      1.96      No
0.02      2.326     No
0.01      2.576     No
```

Constituent: LEAD, TOTAL Analysis Run 8/27/2025 3:56 PM

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)



Z = -0.3573 (two-tail)

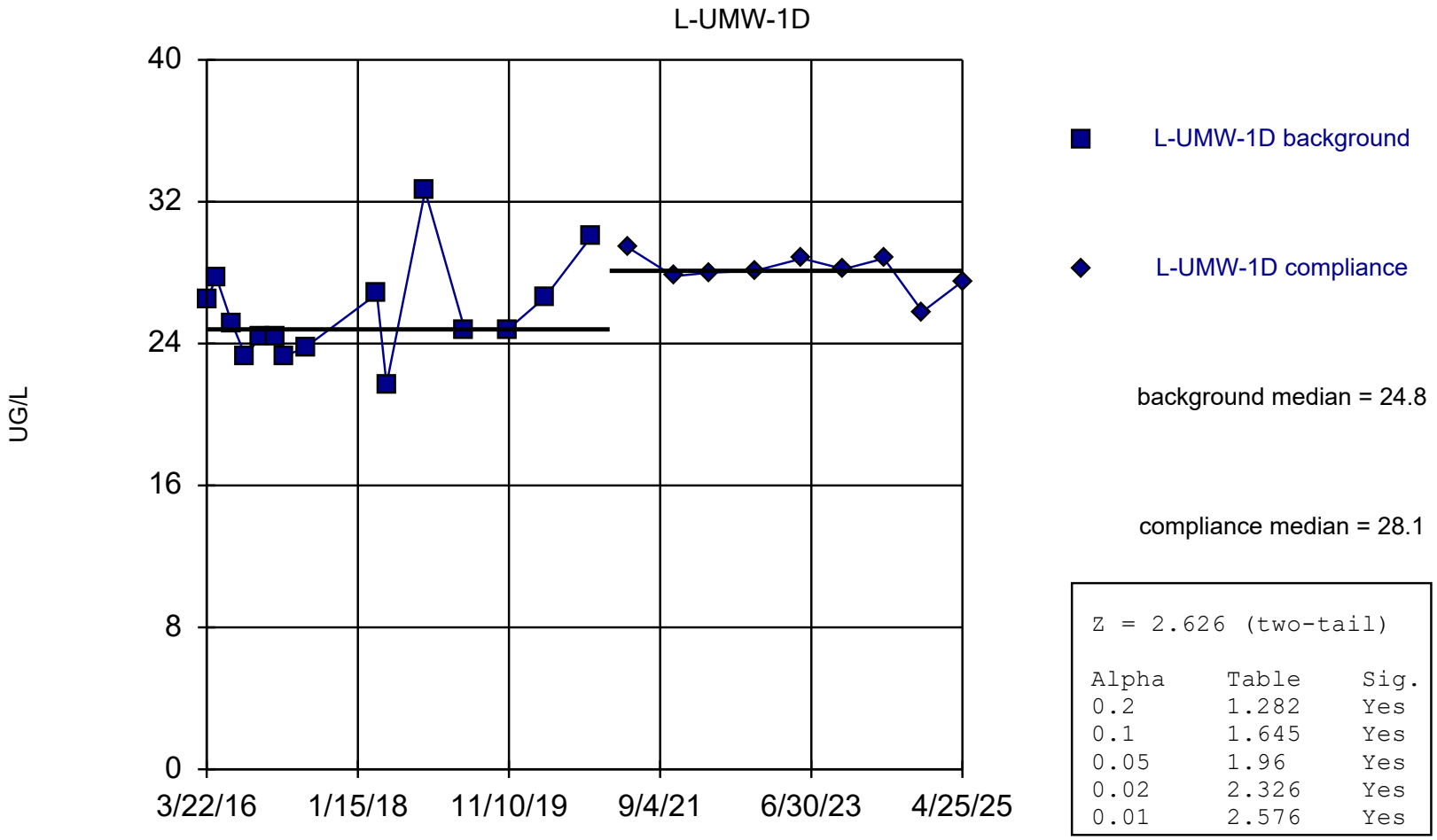
Alpha	Table	Sig.
0.2	1.282	No
0.1	1.645	No
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: LEAD, TOTAL Analysis Run 8/27/2025 3:56 PM

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG

Mann-Whitney (Wilcoxon Rank Sum)



Z = 2.626 (two-tail)

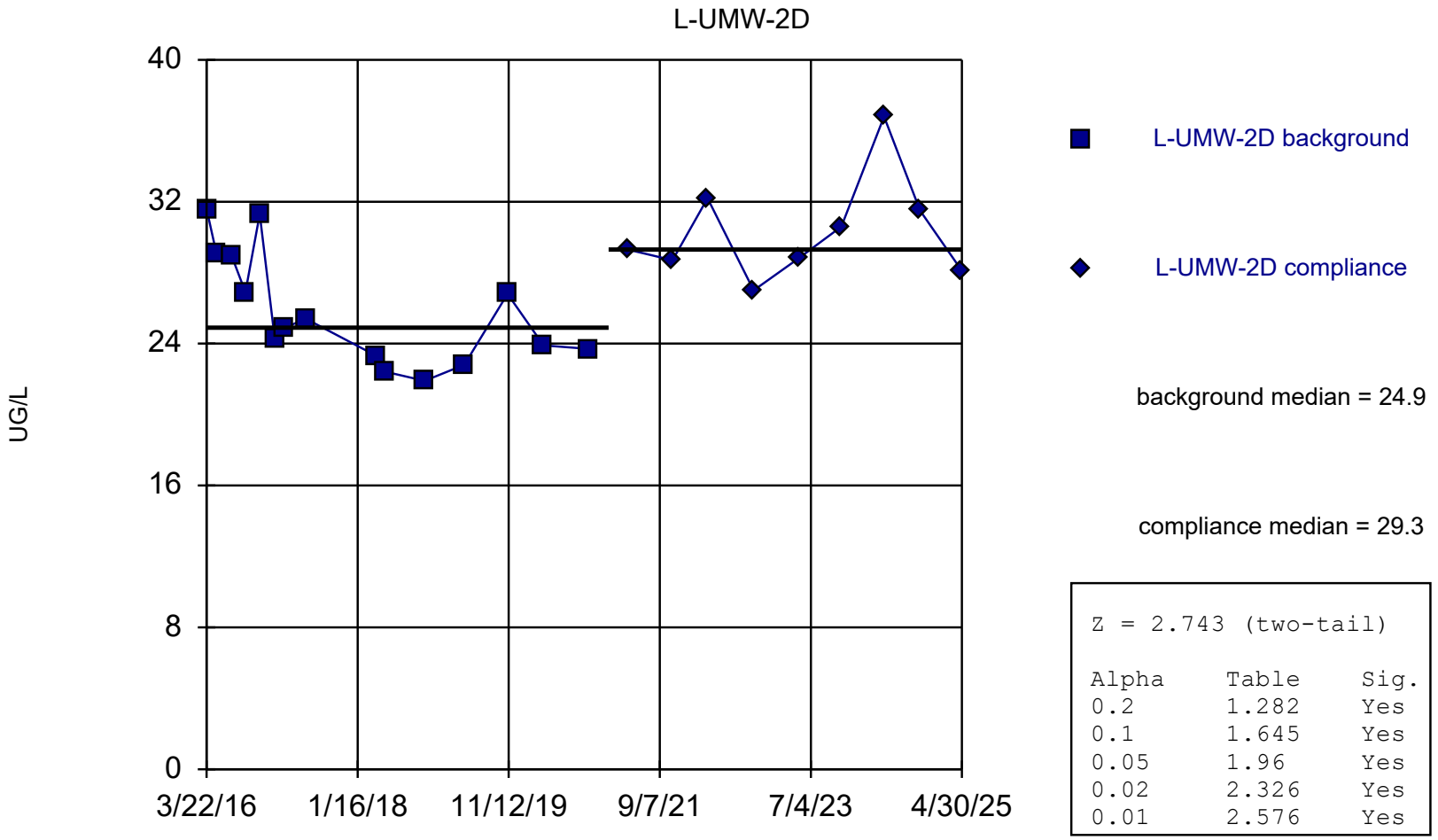
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	Yes
0.02	2.326	Yes
0.01	2.576	Yes

Constituent: LITHIUM, TOTAL Analysis Run 8/27/2025 3:56 PM

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG

Mann-Whitney (Wilcoxon Rank Sum)



Z = 2.743 (two-tail)

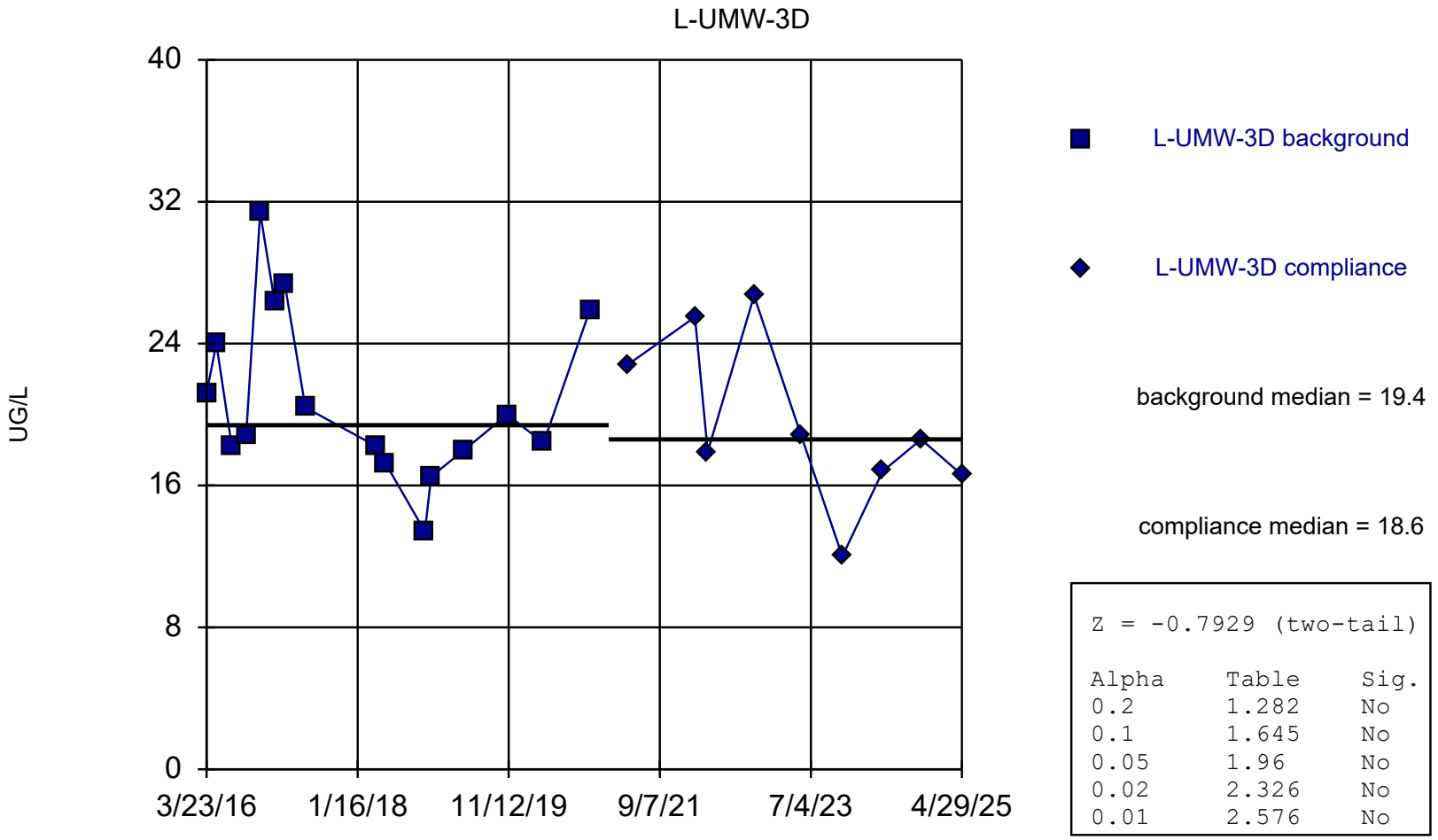
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	Yes
0.02	2.326	Yes
0.01	2.576	Yes

Constituent: LITHIUM, TOTAL Analysis Run 8/27/2025 3:56 PM

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG

Mann-Whitney (Wilcoxon Rank Sum)



Z = -0.7929 (two-tail)

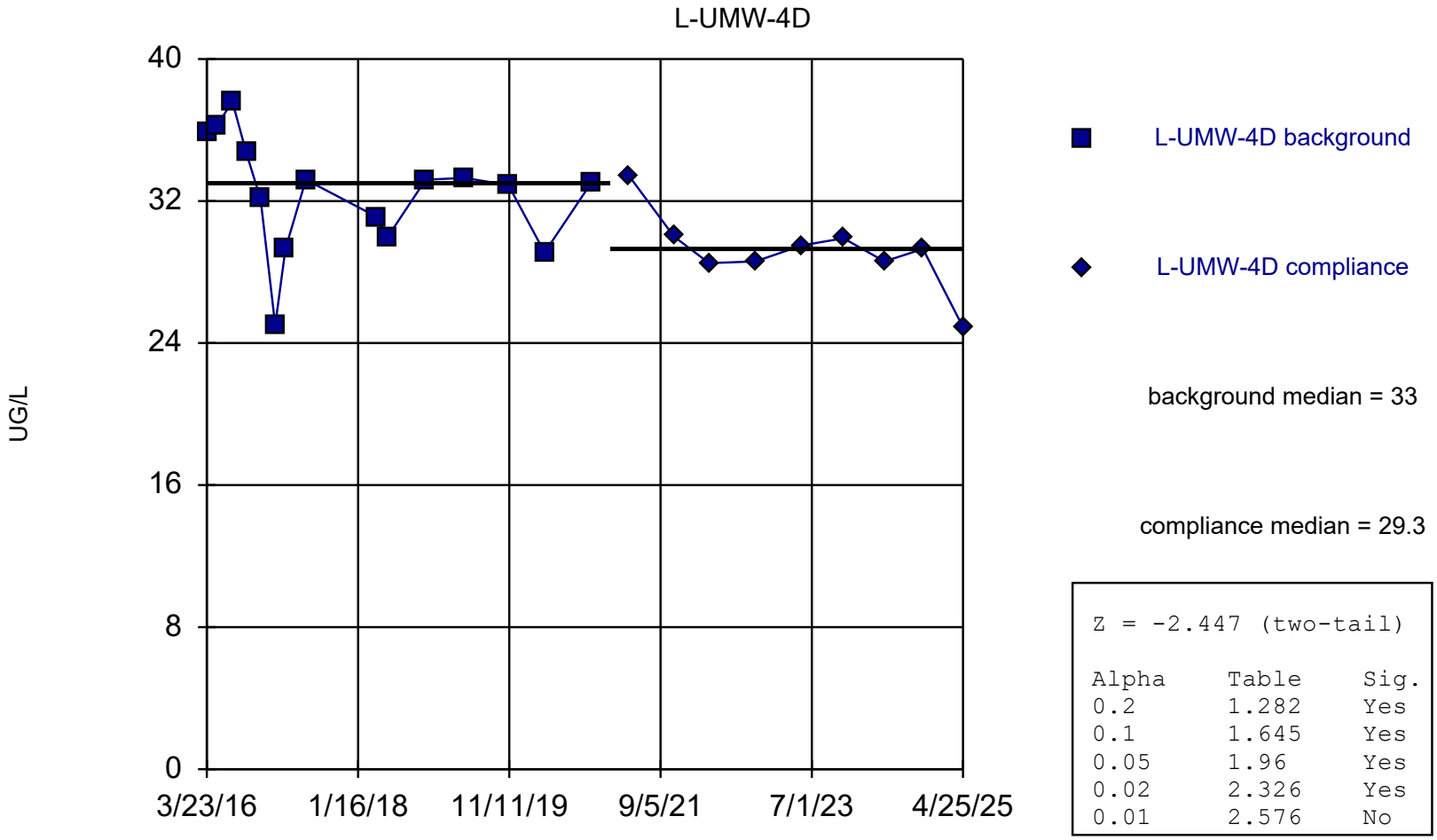
Alpha	Table	Sig.
0.2	1.282	No
0.1	1.645	No
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: LITHIUM, TOTAL Analysis Run 8/27/2025 3:56 PM

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG

Mann-Whitney (Wilcoxon Rank Sum)



Z = -2.447 (two-tail)

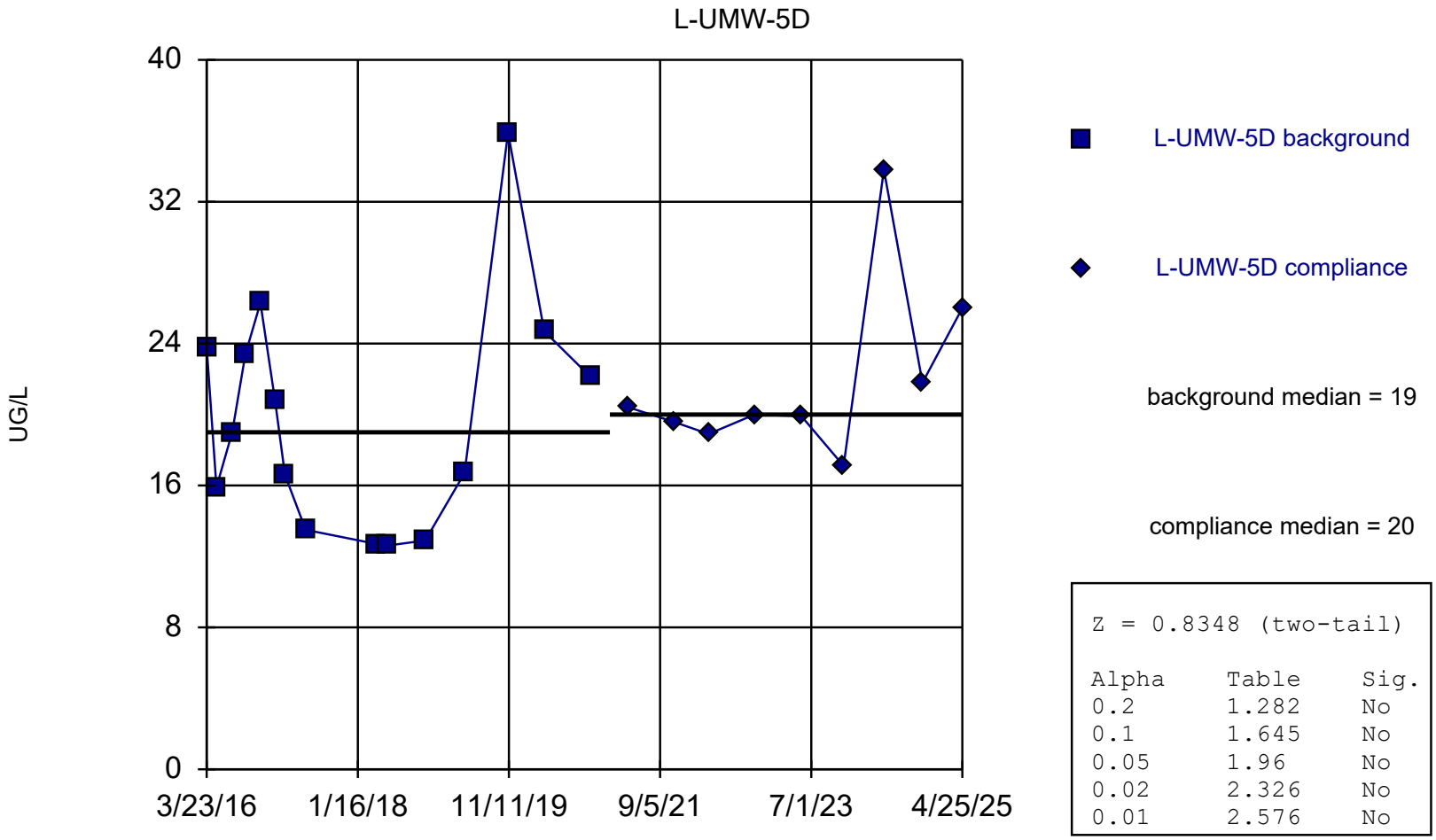
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	Yes
0.02	2.326	Yes
0.01	2.576	No

Constituent: LITHIUM, TOTAL Analysis Run 8/27/2025 3:56 PM

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG

Mann-Whitney (Wilcoxon Rank Sum)



Z = 0.8348 (two-tail)

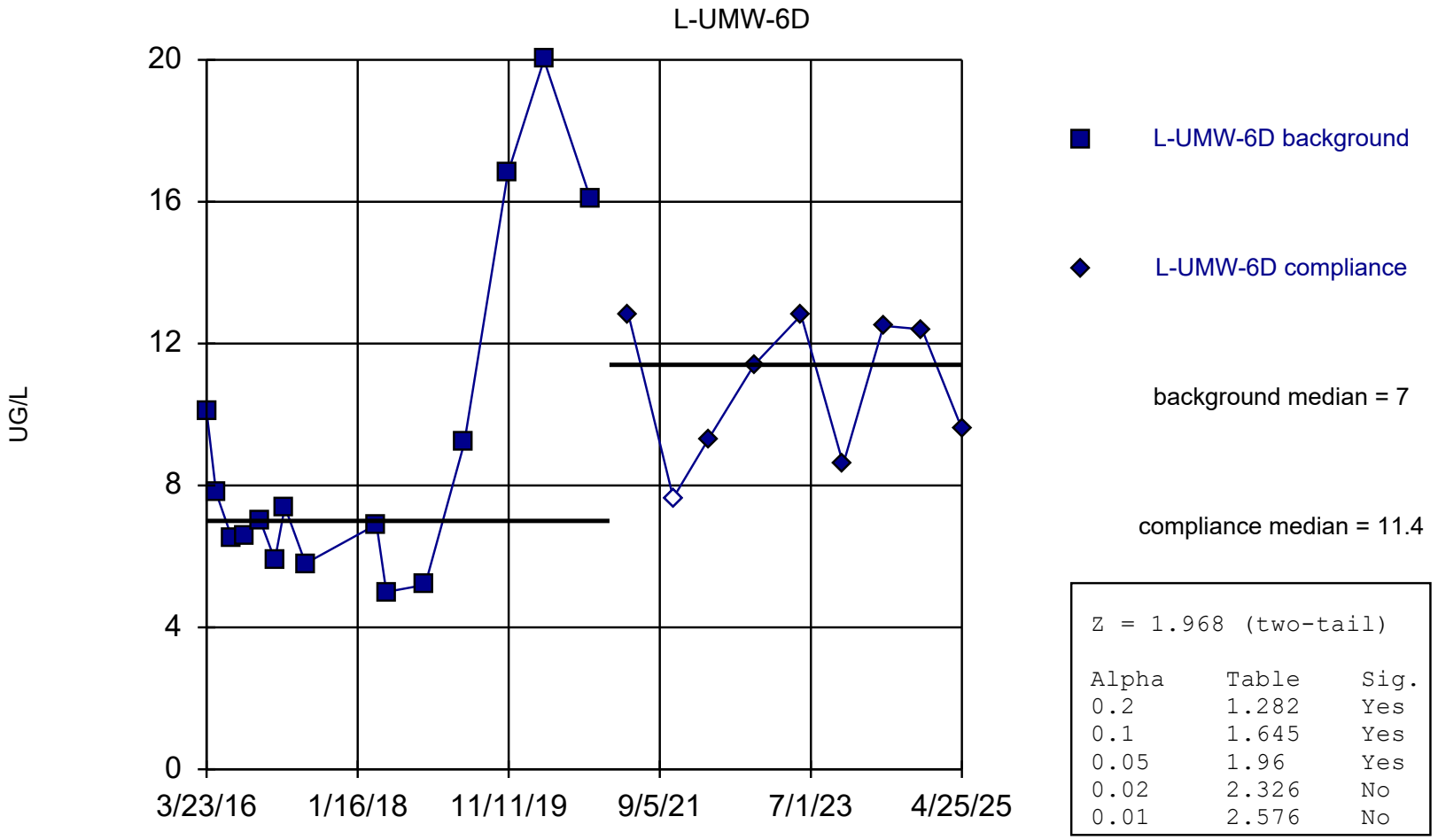
Alpha	Table	Sig.
0.2	1.282	No
0.1	1.645	No
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: LITHIUM, TOTAL Analysis Run 8/27/2025 3:56 PM

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)



Z = 1.968 (two-tail)

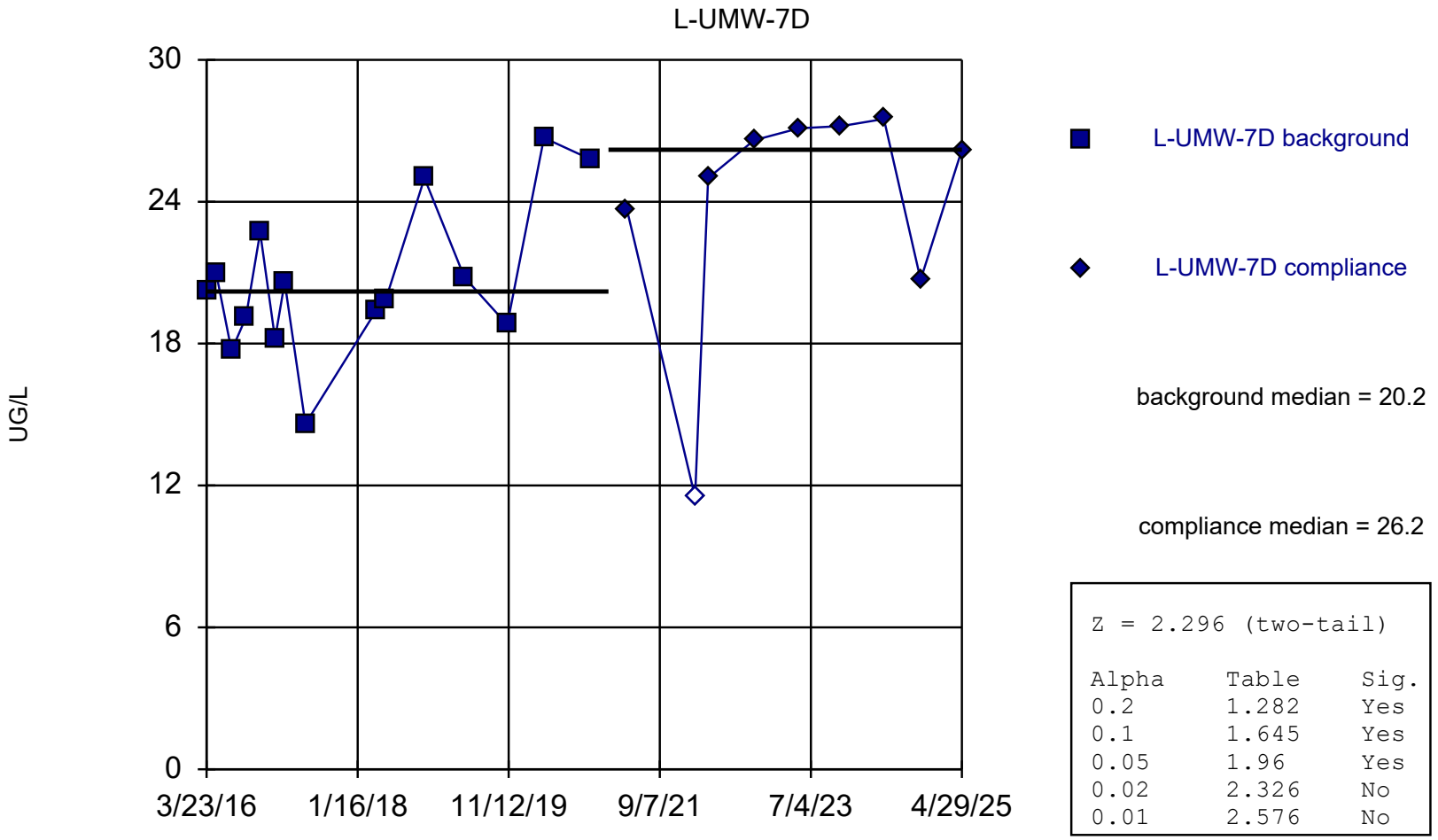
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	Yes
0.02	2.326	No
0.01	2.576	No

Constituent: LITHIUM, TOTAL Analysis Run 8/27/2025 3:56 PM

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)



Z = 2.296 (two-tail)

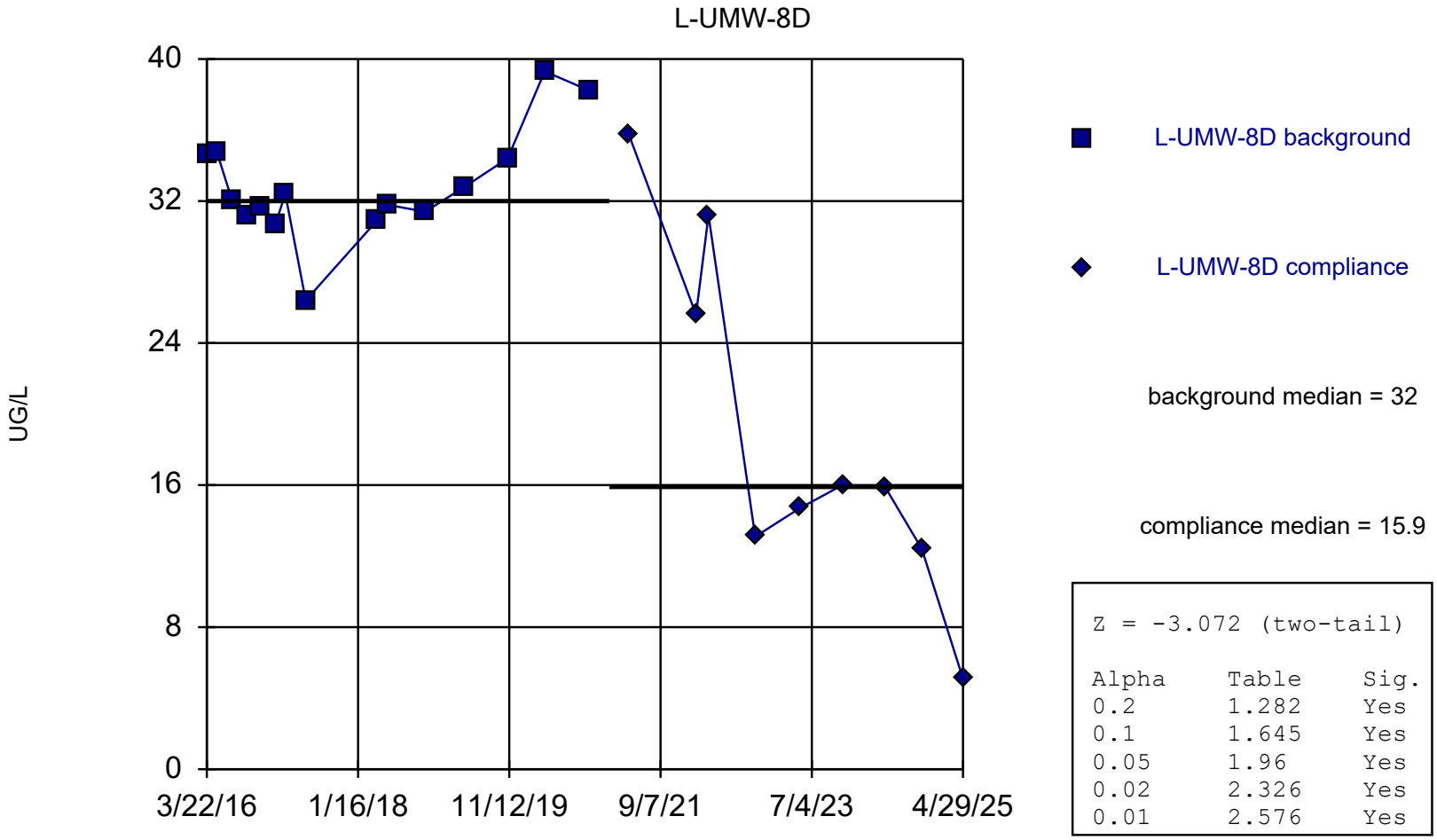
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	Yes
0.02	2.326	No
0.01	2.576	No

Constituent: LITHIUM, TOTAL Analysis Run 8/27/2025 3:56 PM

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG

Mann-Whitney (Wilcoxon Rank Sum)



Z = -3.072 (two-tail)

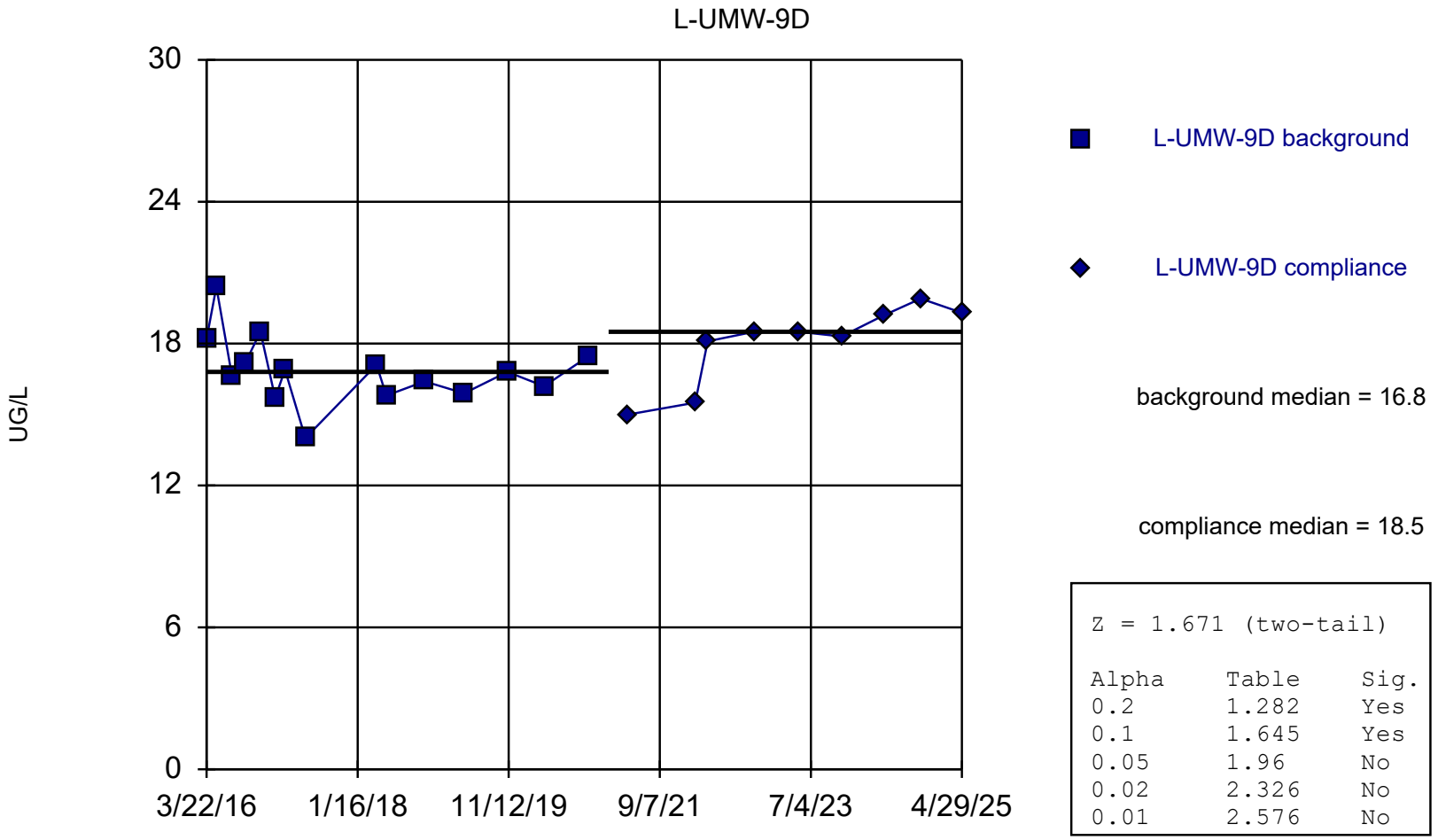
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	Yes
0.02	2.326	Yes
0.01	2.576	Yes

Constituent: LITHIUM, TOTAL Analysis Run 8/27/2025 3:56 PM

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG

Mann-Whitney (Wilcoxon Rank Sum)



Z = 1.671 (two-tail)

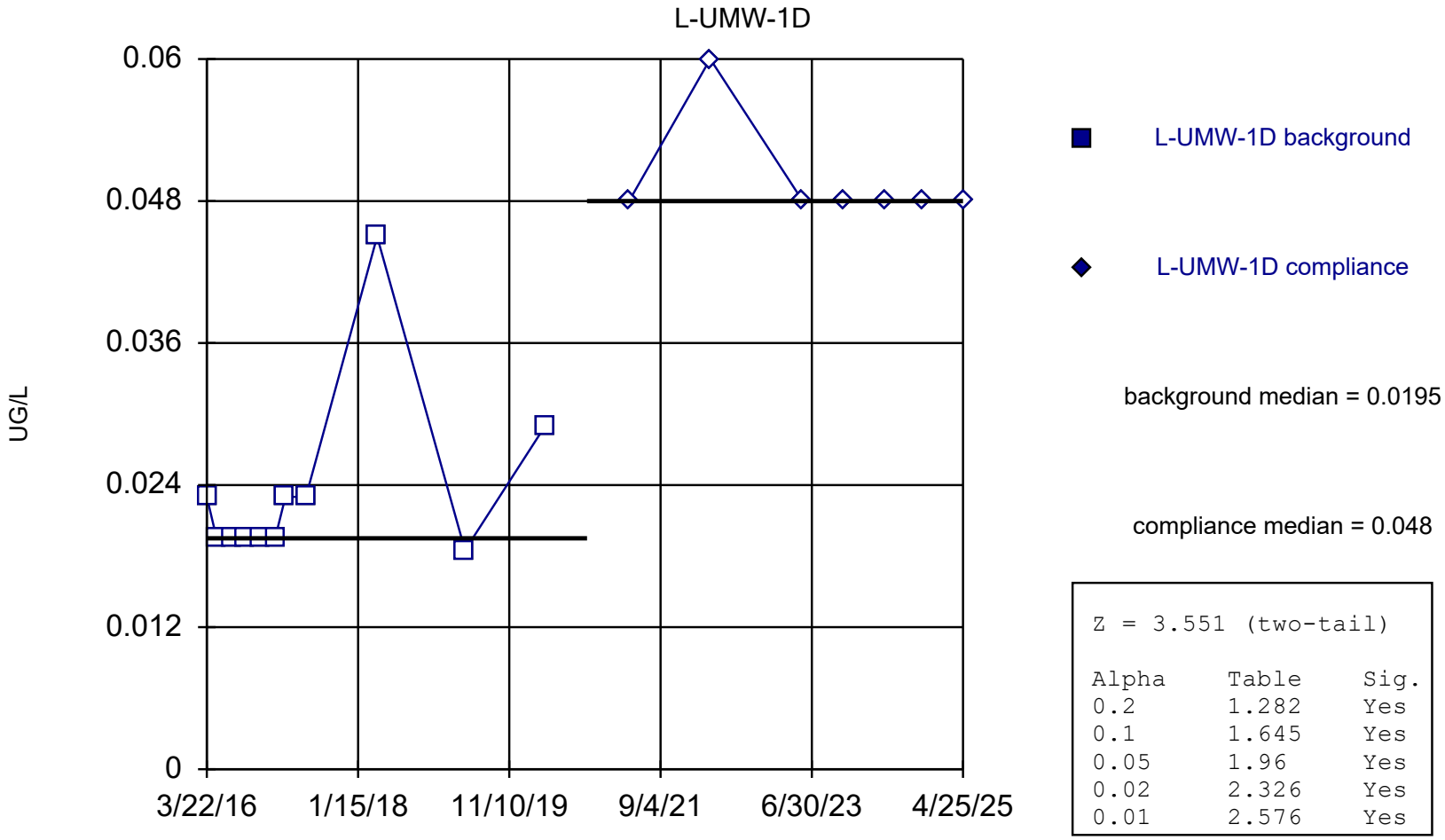
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: LITHIUM, TOTAL Analysis Run 8/27/2025 3:56 PM

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)



Z = 3.551 (two-tail)

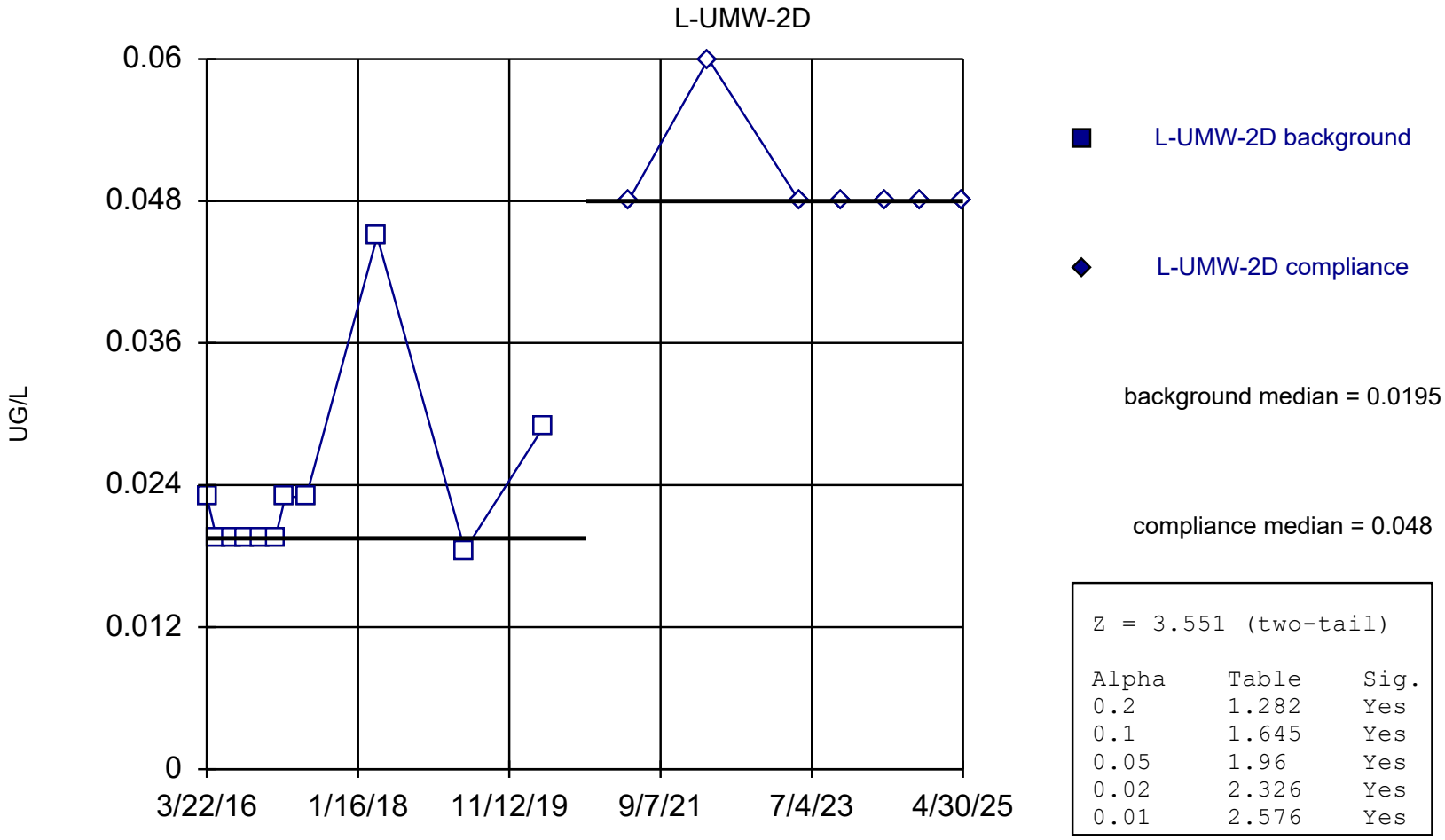
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	Yes
0.02	2.326	Yes
0.01	2.576	Yes

Constituent: MERCURY, TOTAL Analysis Run 8/27/2025 3:56 PM

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)



Z = 3.551 (two-tail)

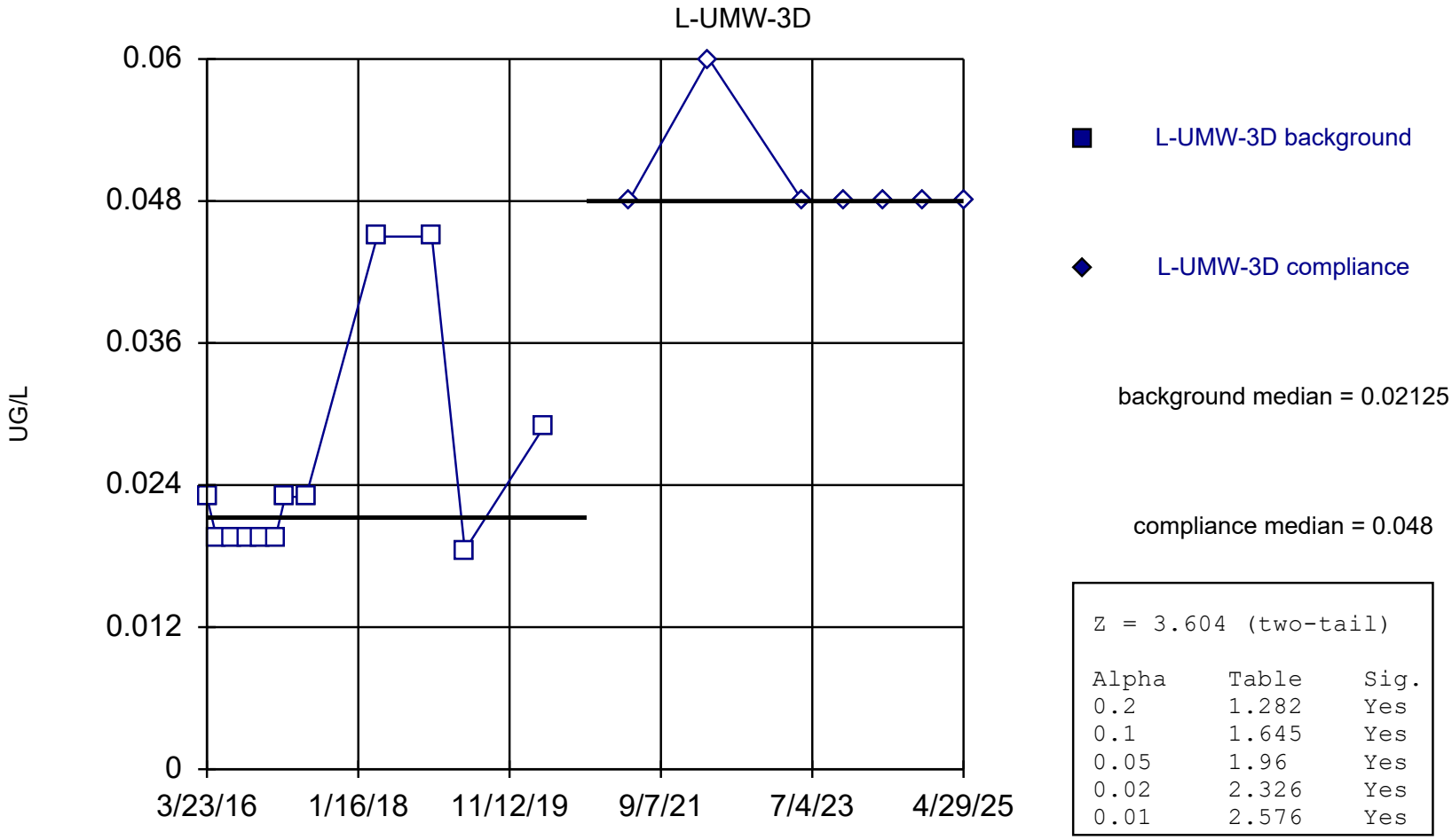
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	Yes
0.02	2.326	Yes
0.01	2.576	Yes

Constituent: MERCURY, TOTAL Analysis Run 8/27/2025 3:56 PM

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)



Z = 3.604 (two-tail)

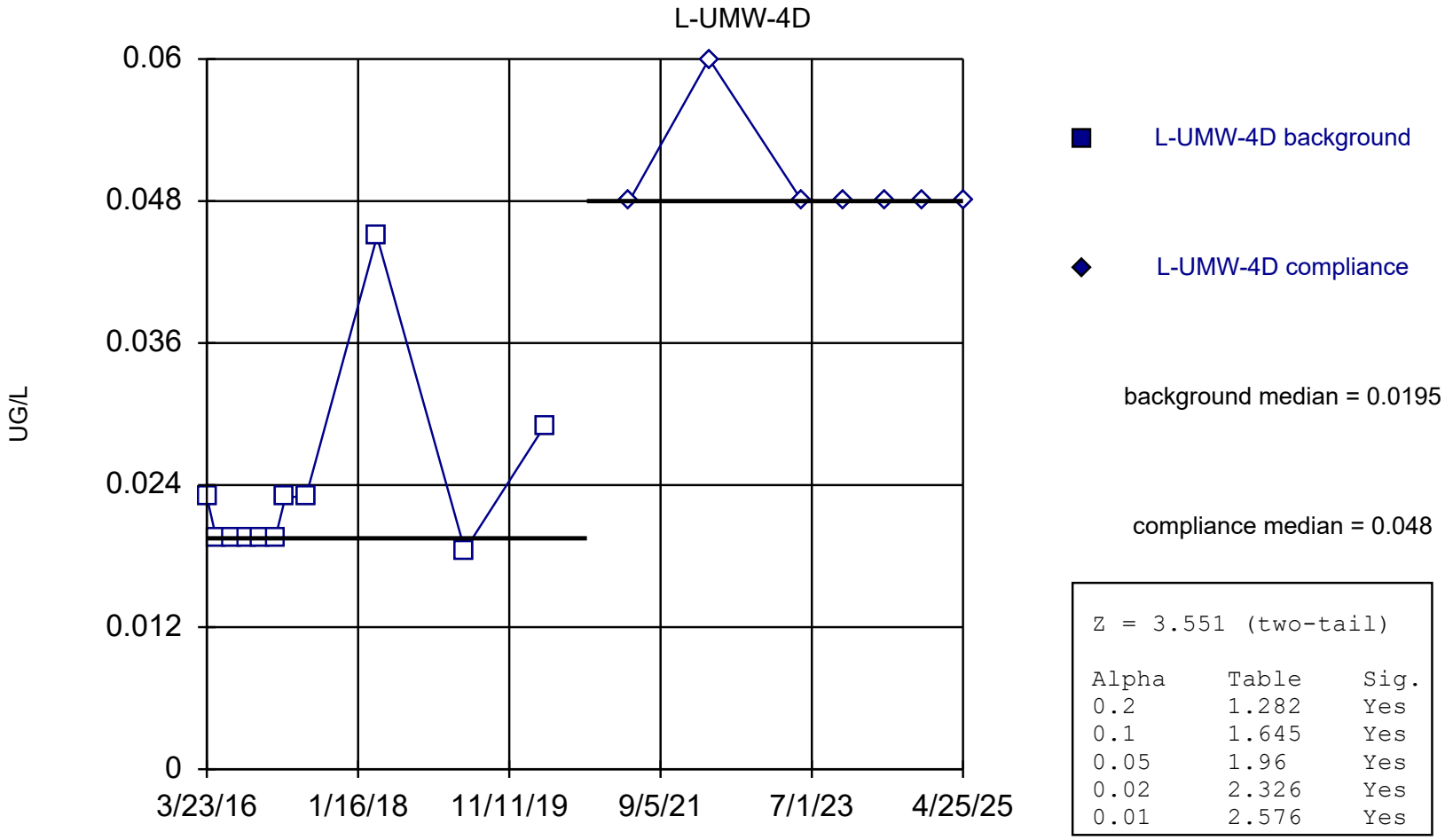
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	Yes
0.02	2.326	Yes
0.01	2.576	Yes

Constituent: MERCURY, TOTAL Analysis Run 8/27/2025 3:56 PM

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)



Z = 3.551 (two-tail)

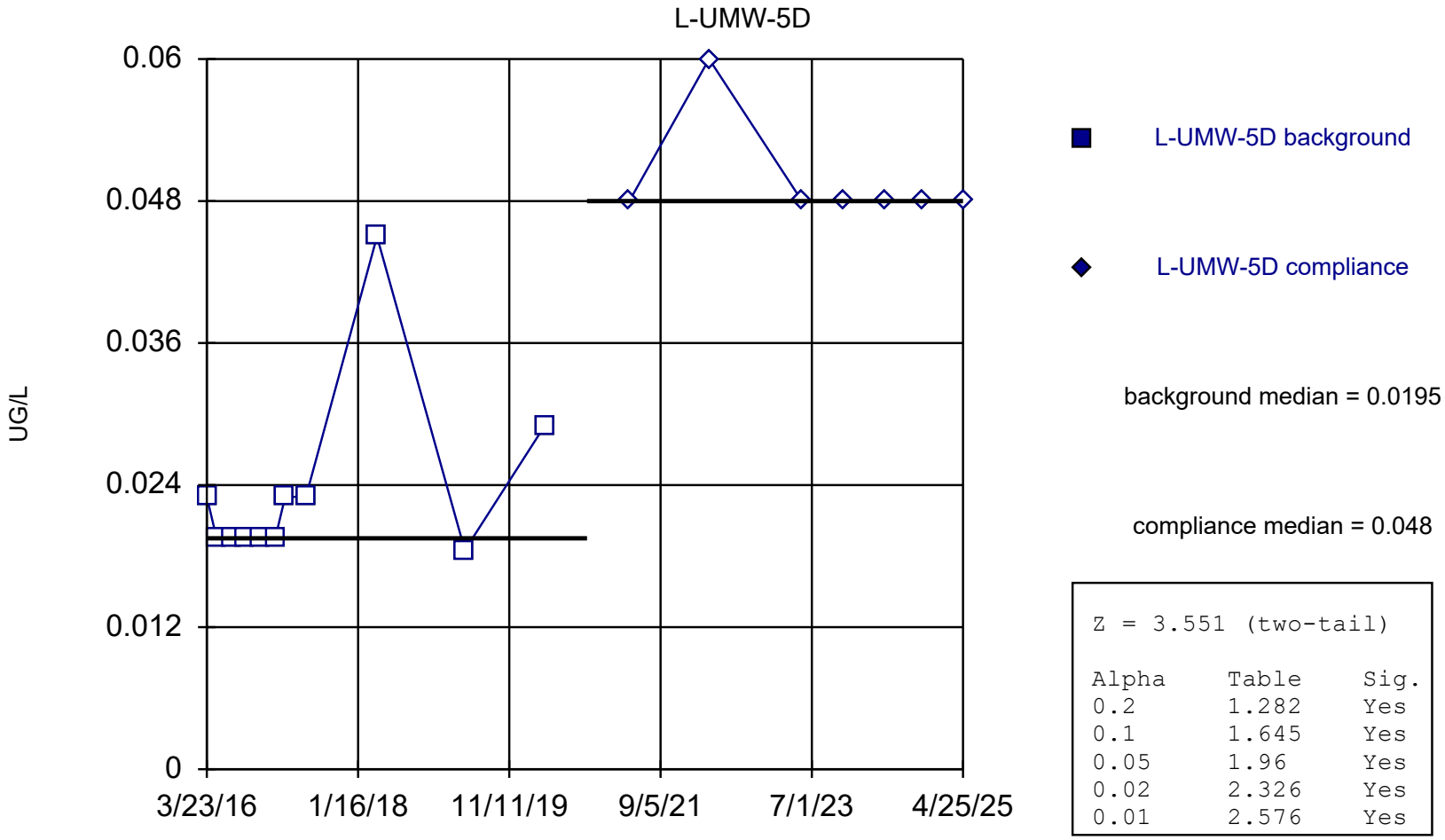
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	Yes
0.02	2.326	Yes
0.01	2.576	Yes

Constituent: MERCURY, TOTAL Analysis Run 8/27/2025 3:56 PM

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)



Z = 3.551 (two-tail)

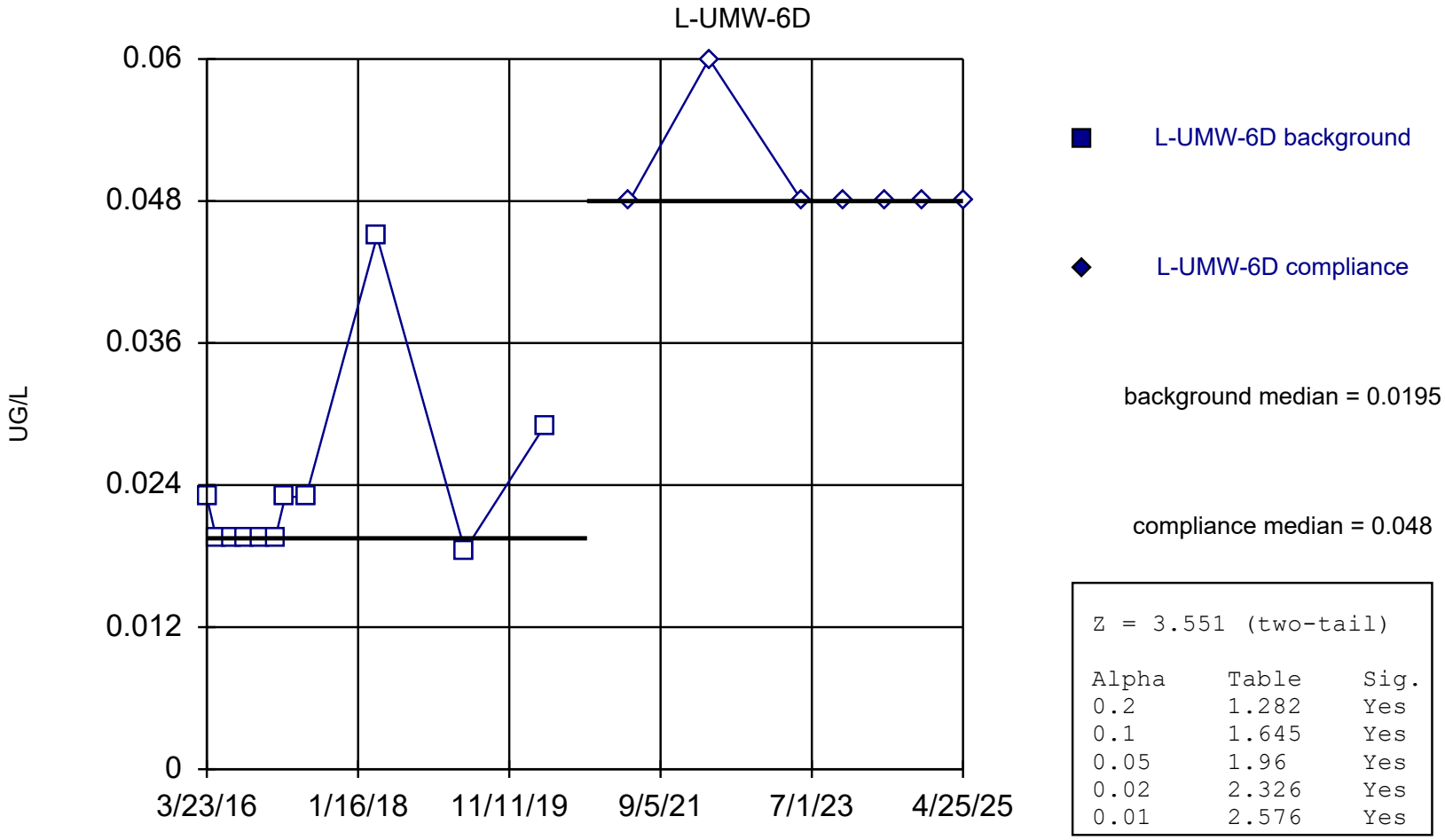
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	Yes
0.02	2.326	Yes
0.01	2.576	Yes

Constituent: MERCURY, TOTAL Analysis Run 8/27/2025 3:56 PM

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)



Z = 3.551 (two-tail)

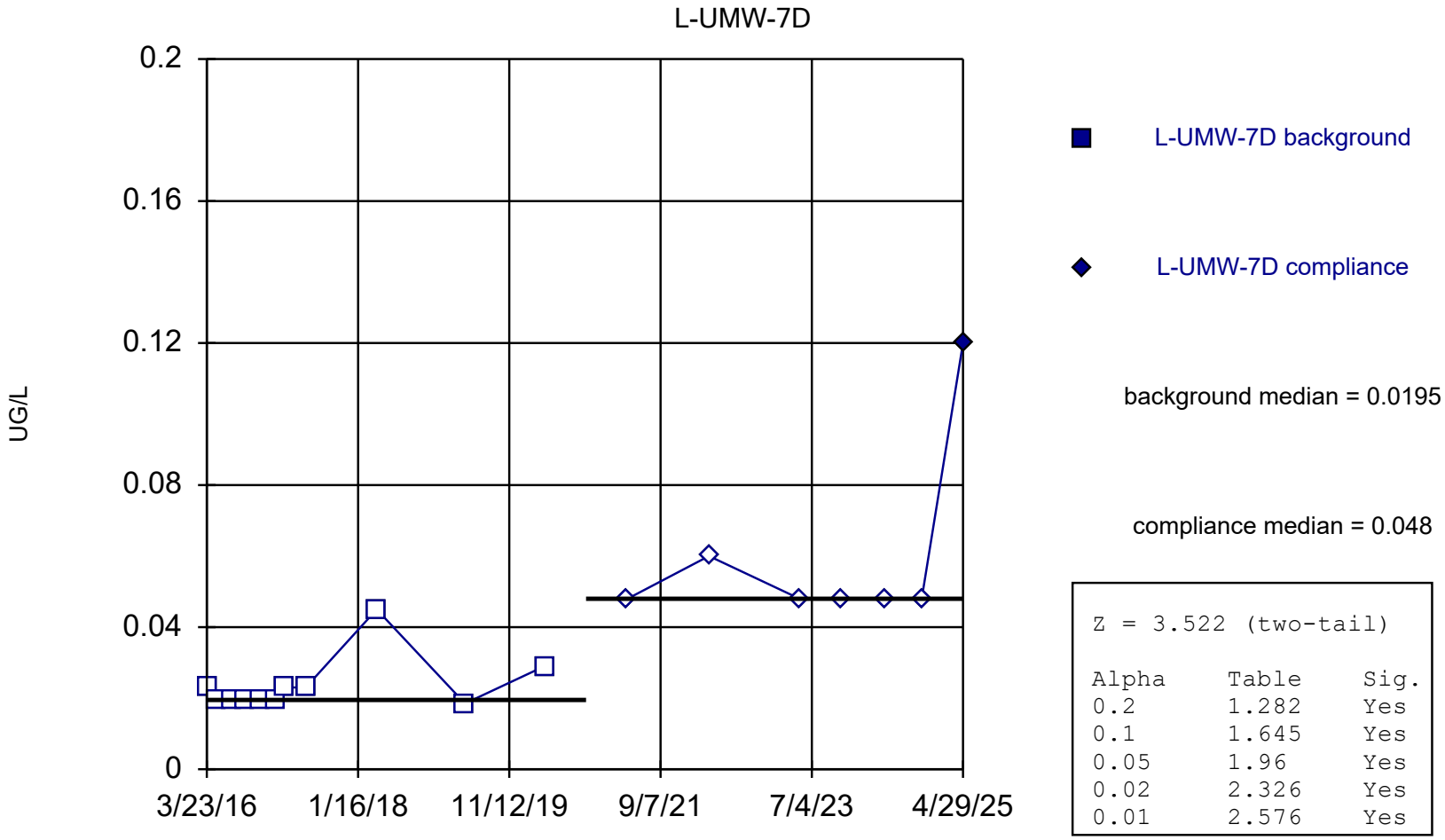
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	Yes
0.02	2.326	Yes
0.01	2.576	Yes

Constituent: MERCURY, TOTAL Analysis Run 8/27/2025 3:56 PM

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)

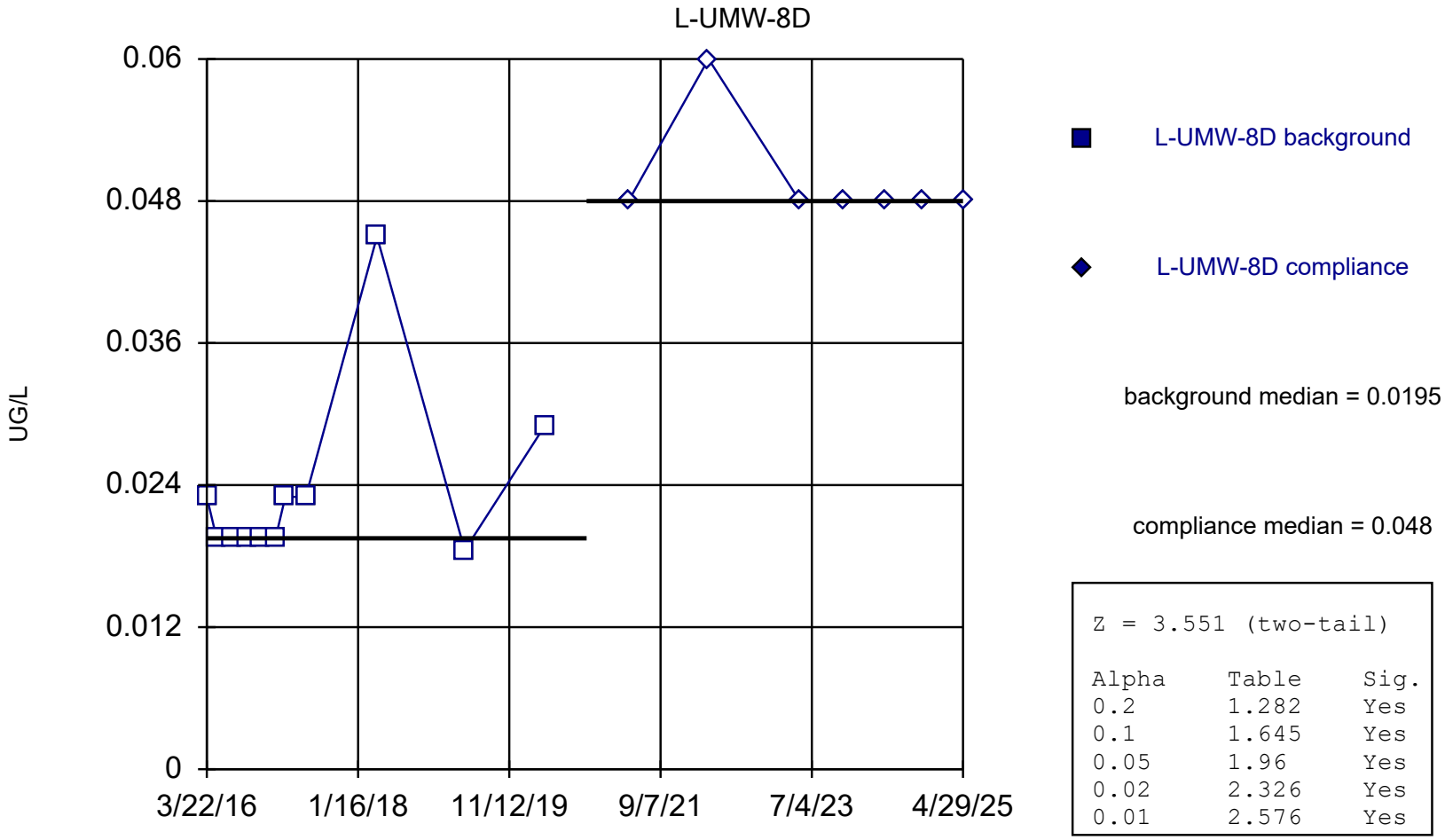


Constituent: MERCURY, TOTAL Analysis Run 8/27/2025 3:56 PM

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)



Z = 3.551 (two-tail)

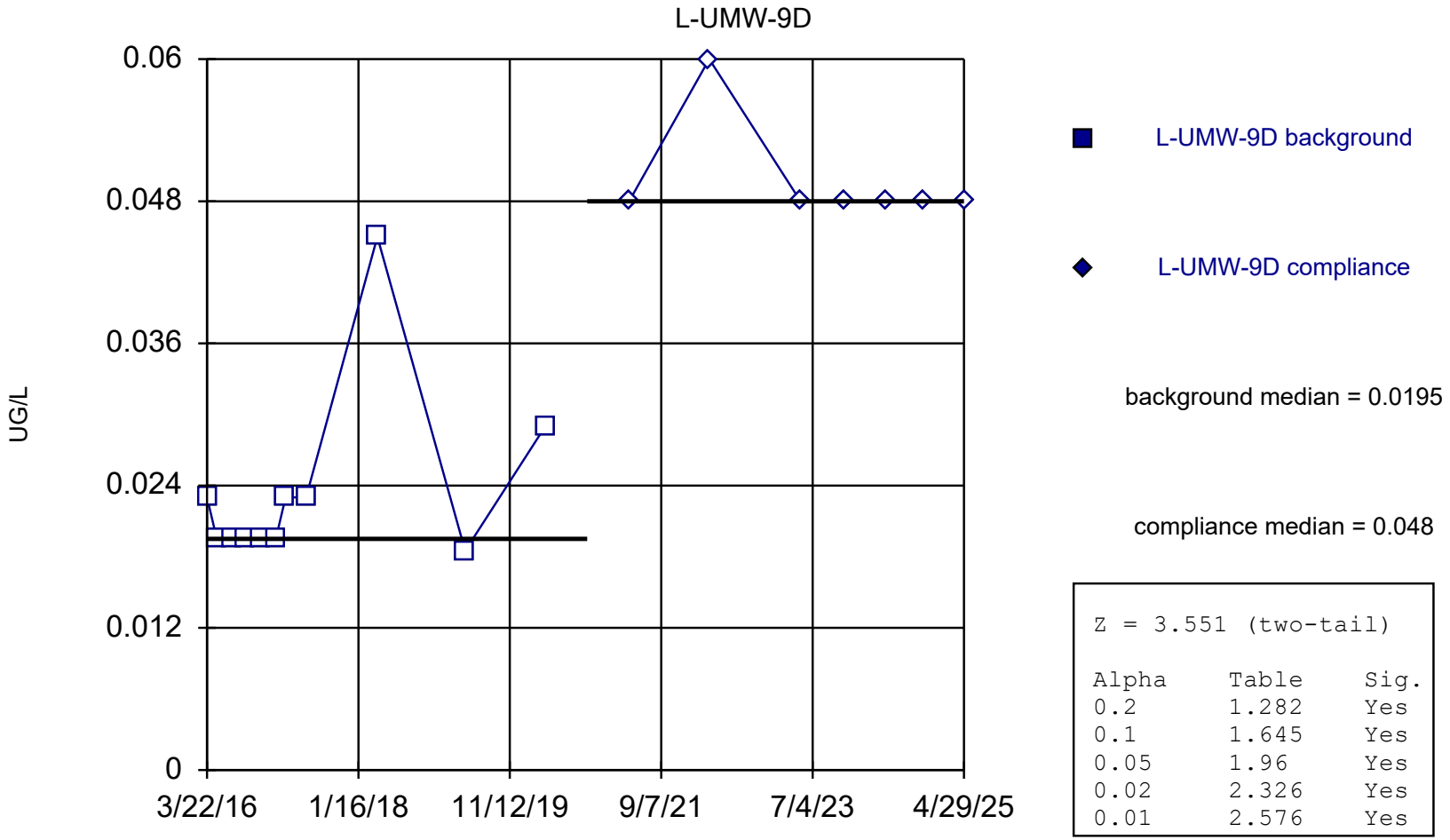
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	Yes
0.02	2.326	Yes
0.01	2.576	Yes

Constituent: MERCURY, TOTAL Analysis Run 8/27/2025 3:56 PM

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)



Z = 3.551 (two-tail)

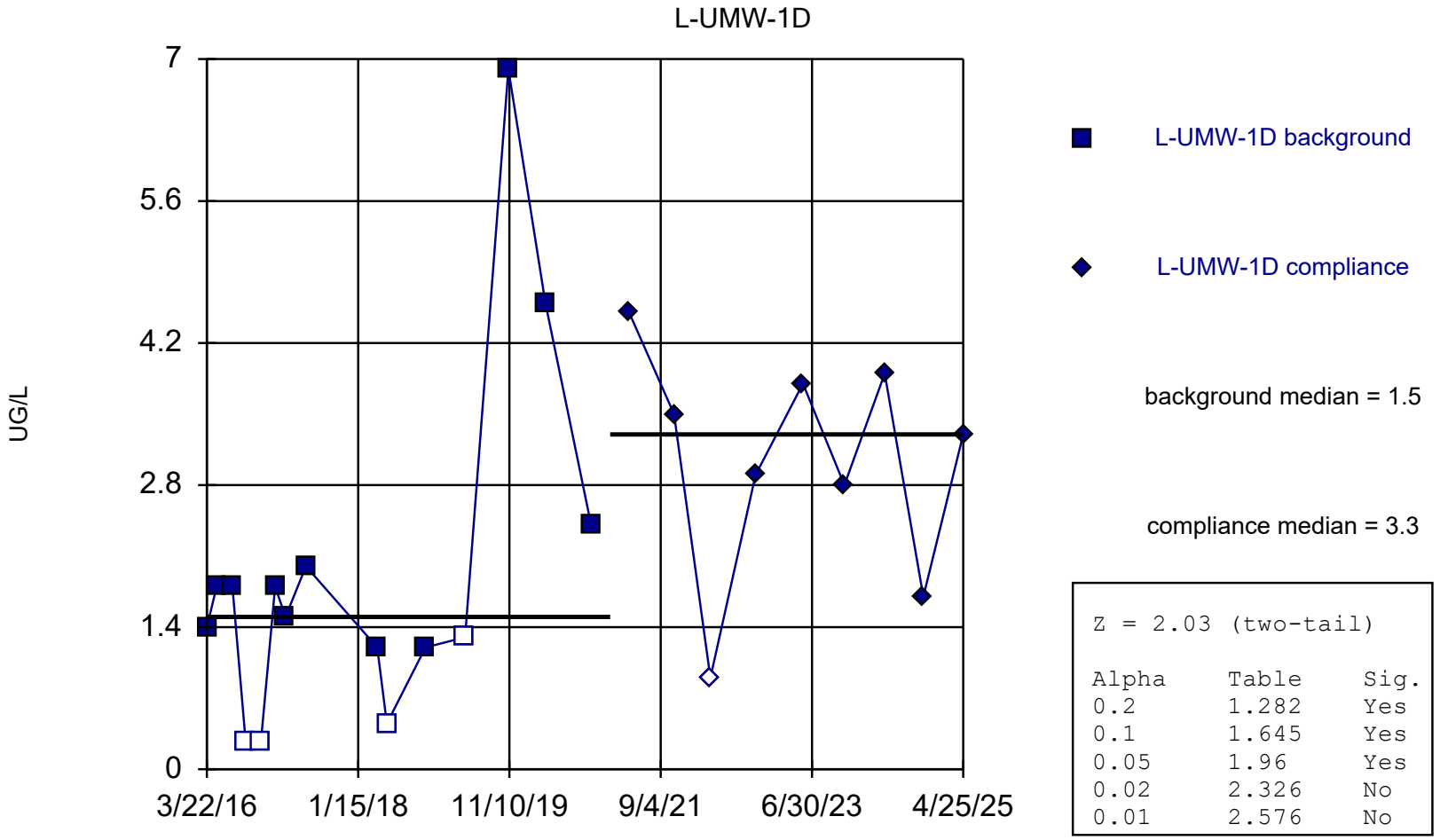
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	Yes
0.02	2.326	Yes
0.01	2.576	Yes

Constituent: MERCURY, TOTAL Analysis Run 8/27/2025 3:56 PM

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)



Z = 2.03 (two-tail)

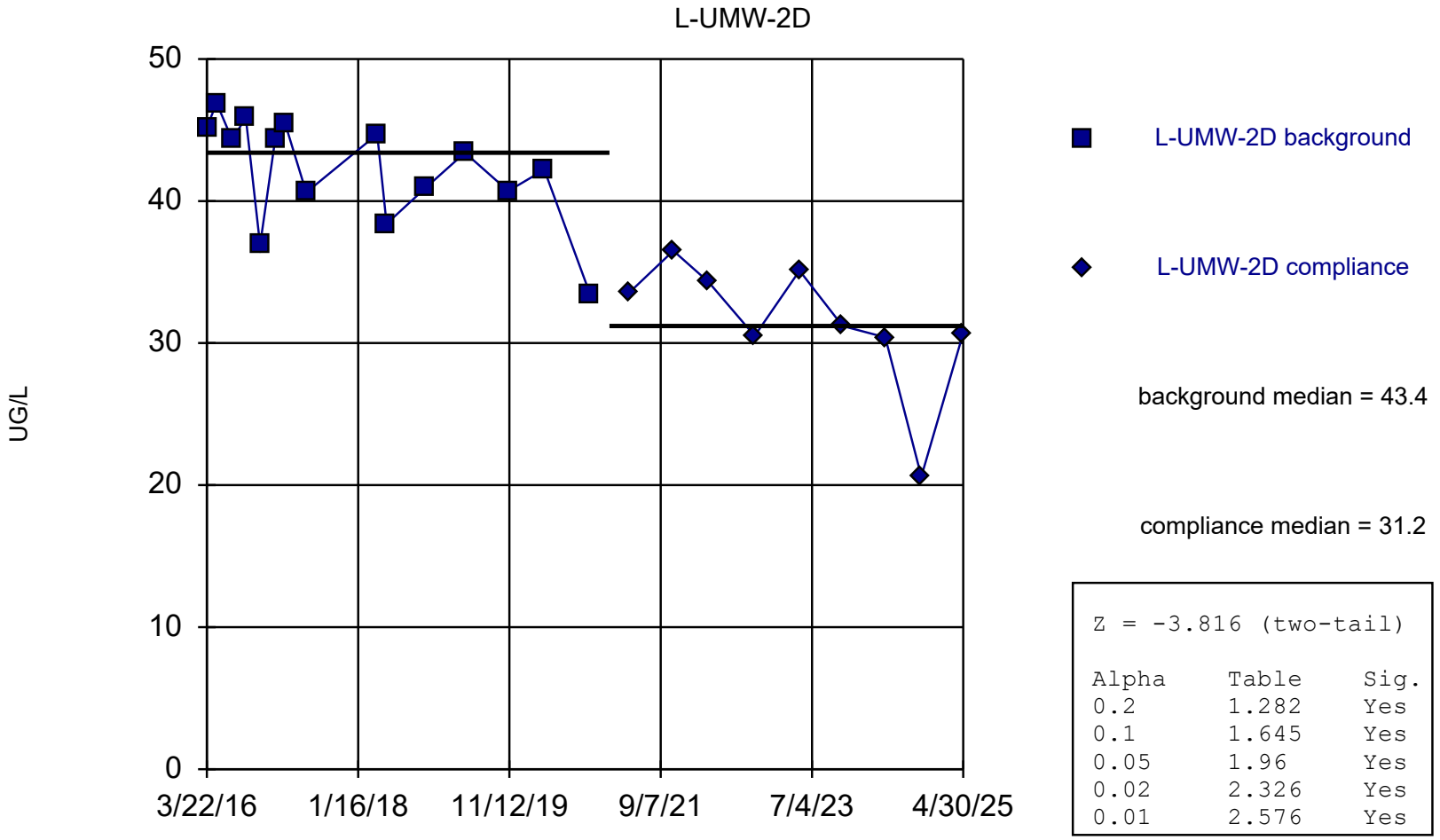
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	Yes
0.02	2.326	No
0.01	2.576	No

Constituent: MOLYBDENUM, TOTAL Analysis Run 8/27/2025 3:56 PM

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG

Mann-Whitney (Wilcoxon Rank Sum)



Z = -3.816 (two-tail)

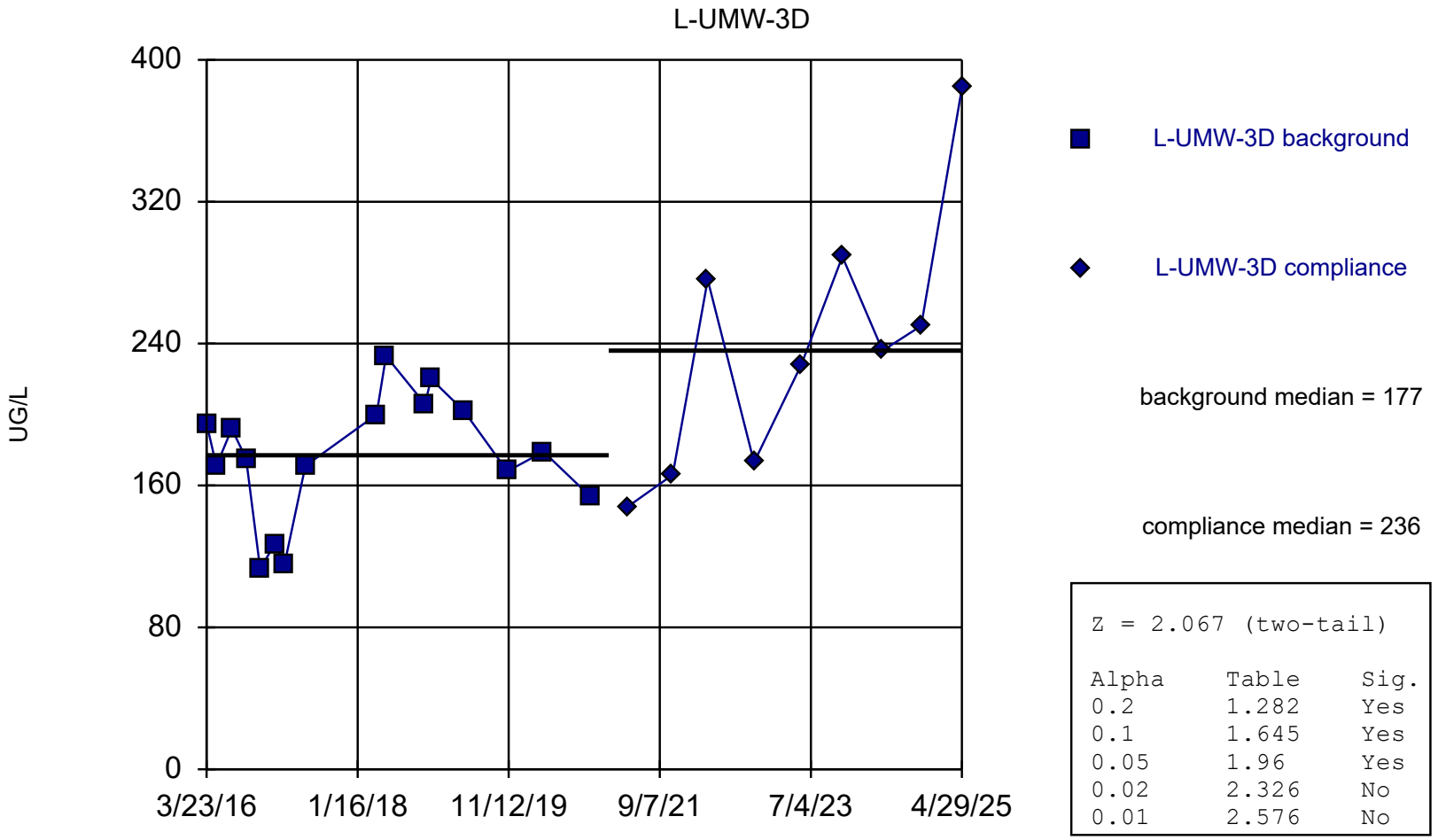
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	Yes
0.02	2.326	Yes
0.01	2.576	Yes

Constituent: MOLYBDENUM, TOTAL Analysis Run 8/27/2025 3:56 PM

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG

Mann-Whitney (Wilcoxon Rank Sum)



Z = 2.067 (two-tail)

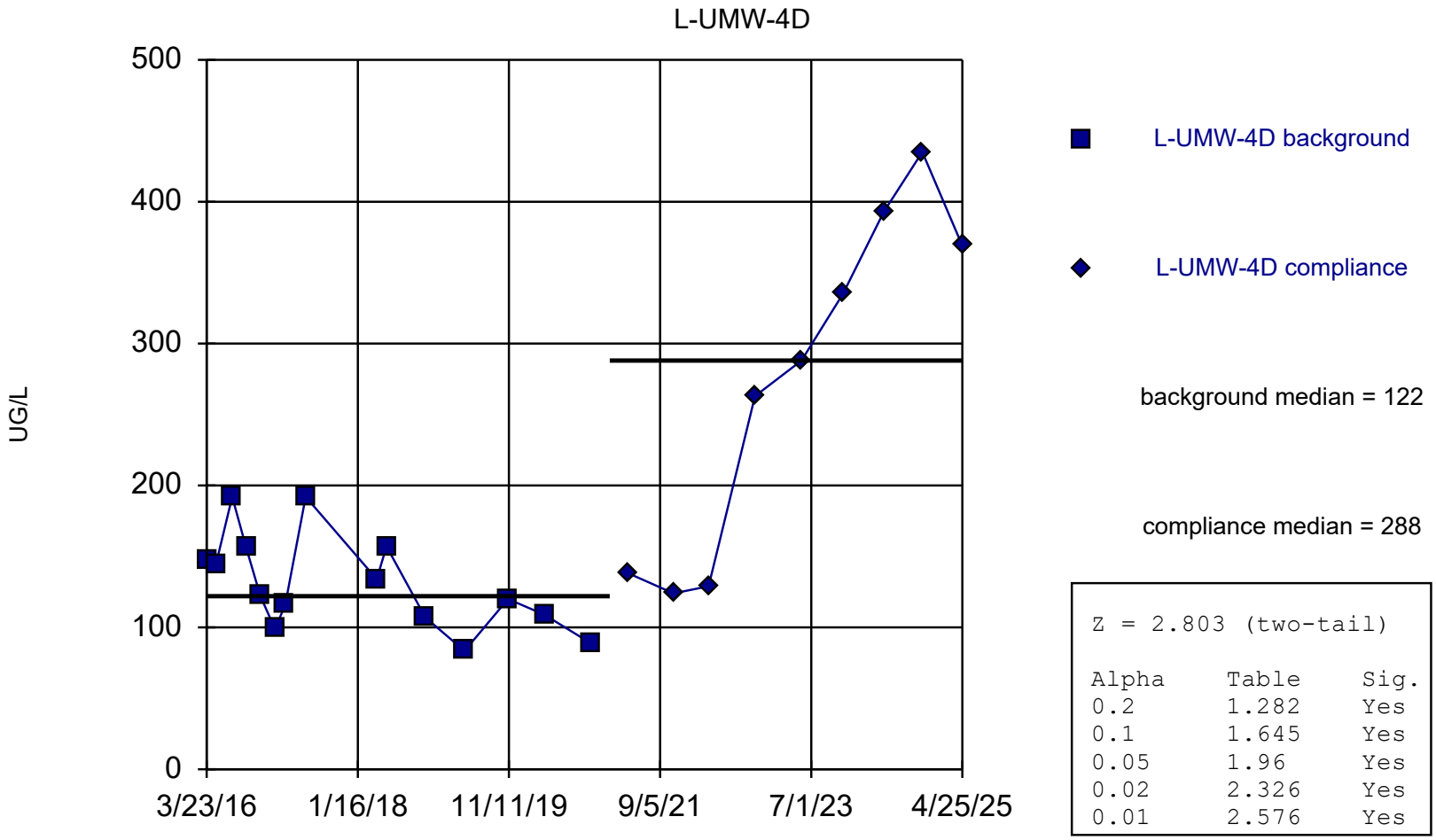
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	Yes
0.02	2.326	No
0.01	2.576	No

Constituent: MOLYBDENUM, TOTAL Analysis Run 8/27/2025 3:56 PM

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG

Mann-Whitney (Wilcoxon Rank Sum)



Z = 2.803 (two-tail)

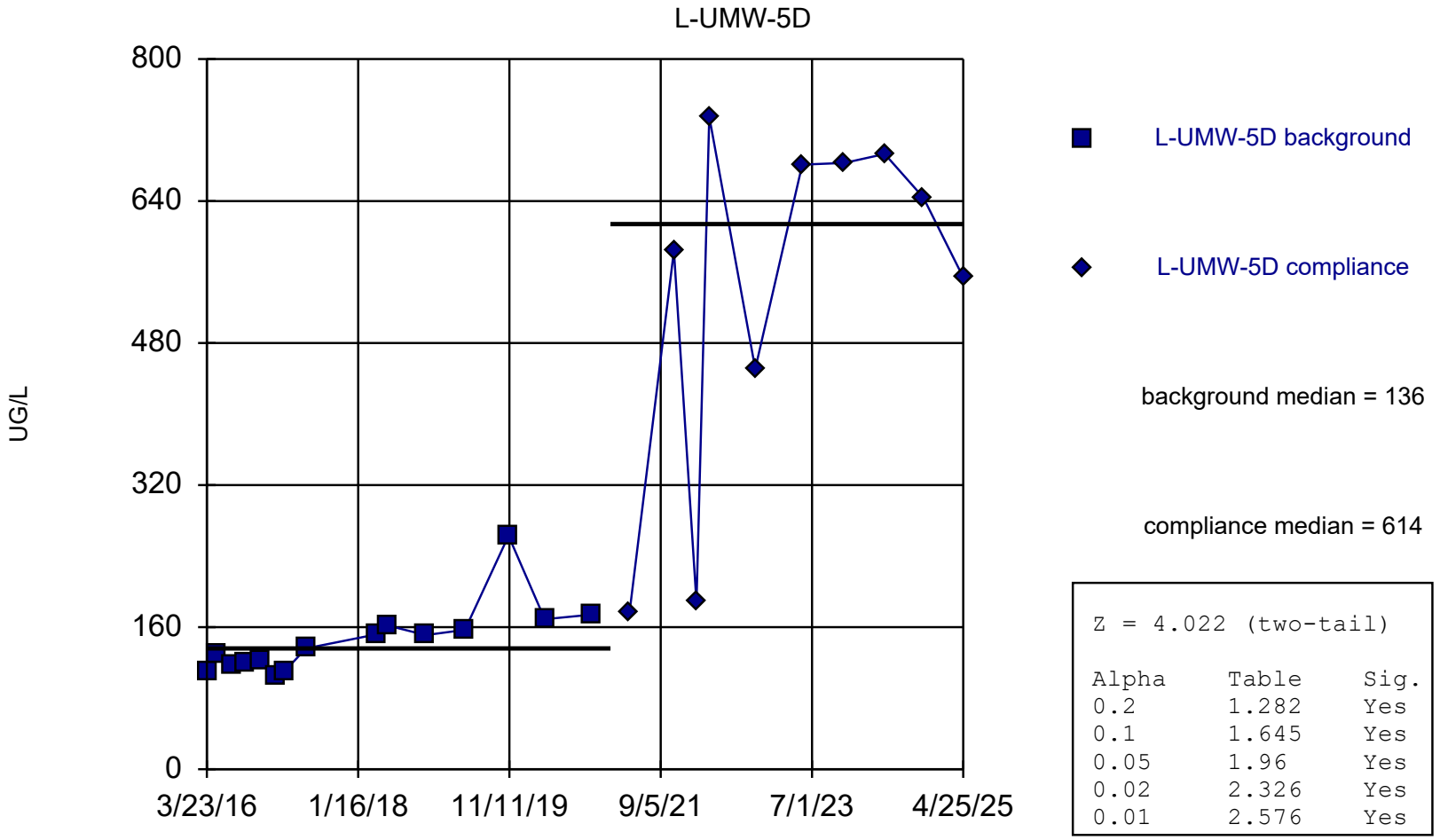
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	Yes
0.02	2.326	Yes
0.01	2.576	Yes

Constituent: MOLYBDENUM, TOTAL Analysis Run 8/27/2025 3:56 PM

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG

Mann-Whitney (Wilcoxon Rank Sum)



Z = 4.022 (two-tail)

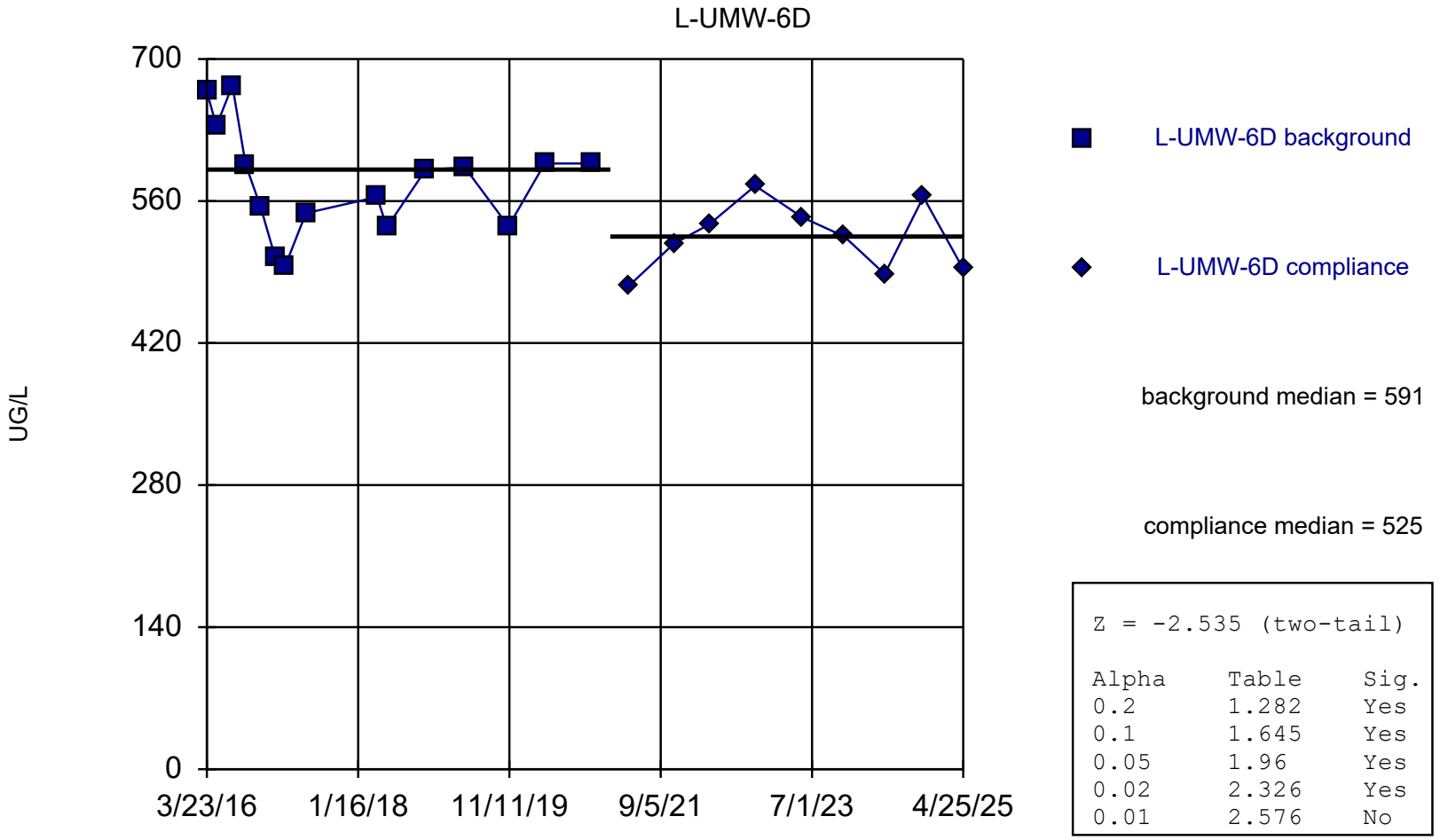
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	Yes
0.02	2.326	Yes
0.01	2.576	Yes

Constituent: MOLYBDENUM, TOTAL Analysis Run 8/27/2025 3:56 PM

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG

Mann-Whitney (Wilcoxon Rank Sum)



Z = -2.535 (two-tail)

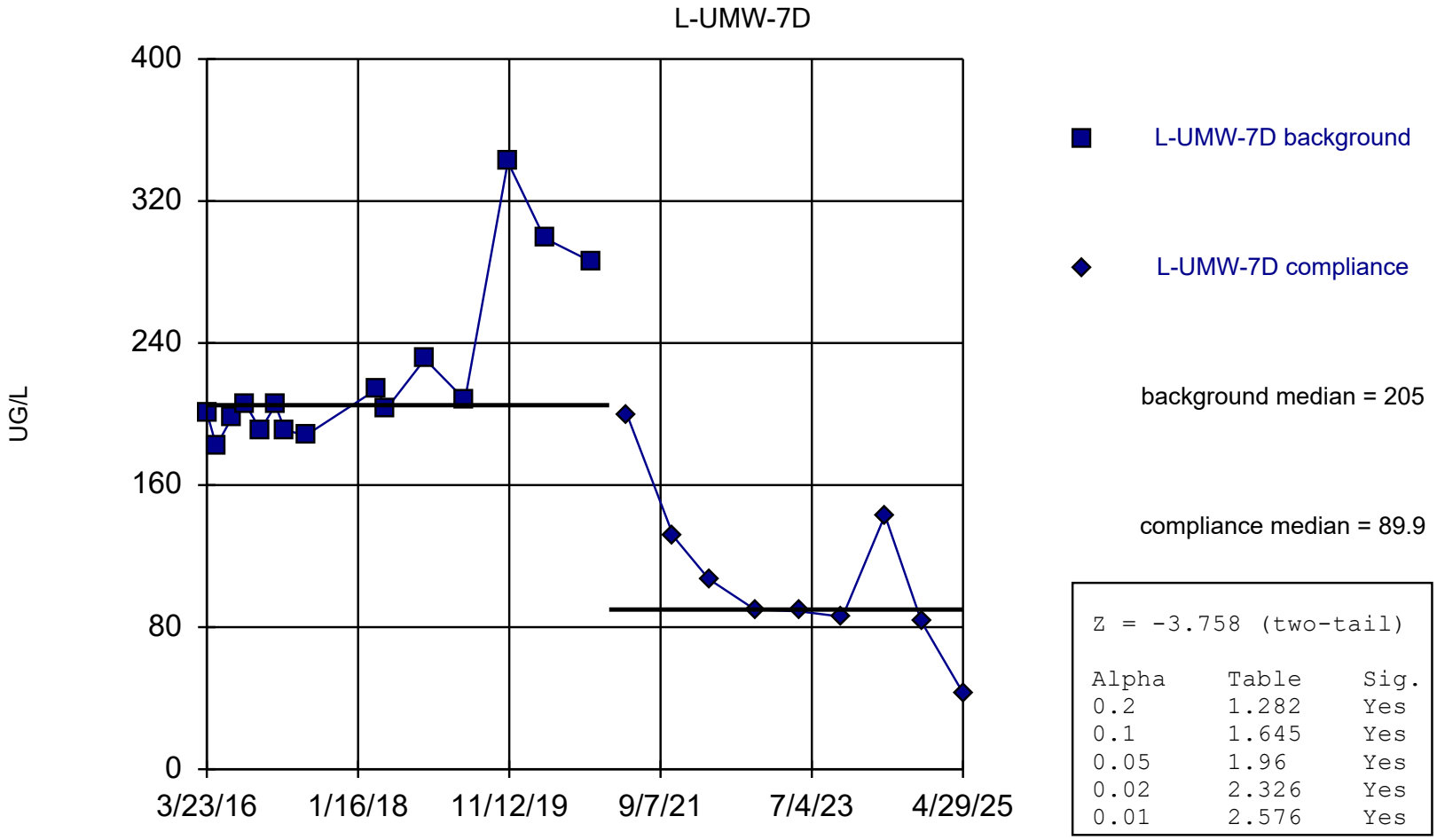
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	Yes
0.02	2.326	Yes
0.01	2.576	No

Constituent: MOLYBDENUM, TOTAL Analysis Run 8/27/2025 3:56 PM

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG

Mann-Whitney (Wilcoxon Rank Sum)



Z = -3.758 (two-tail)

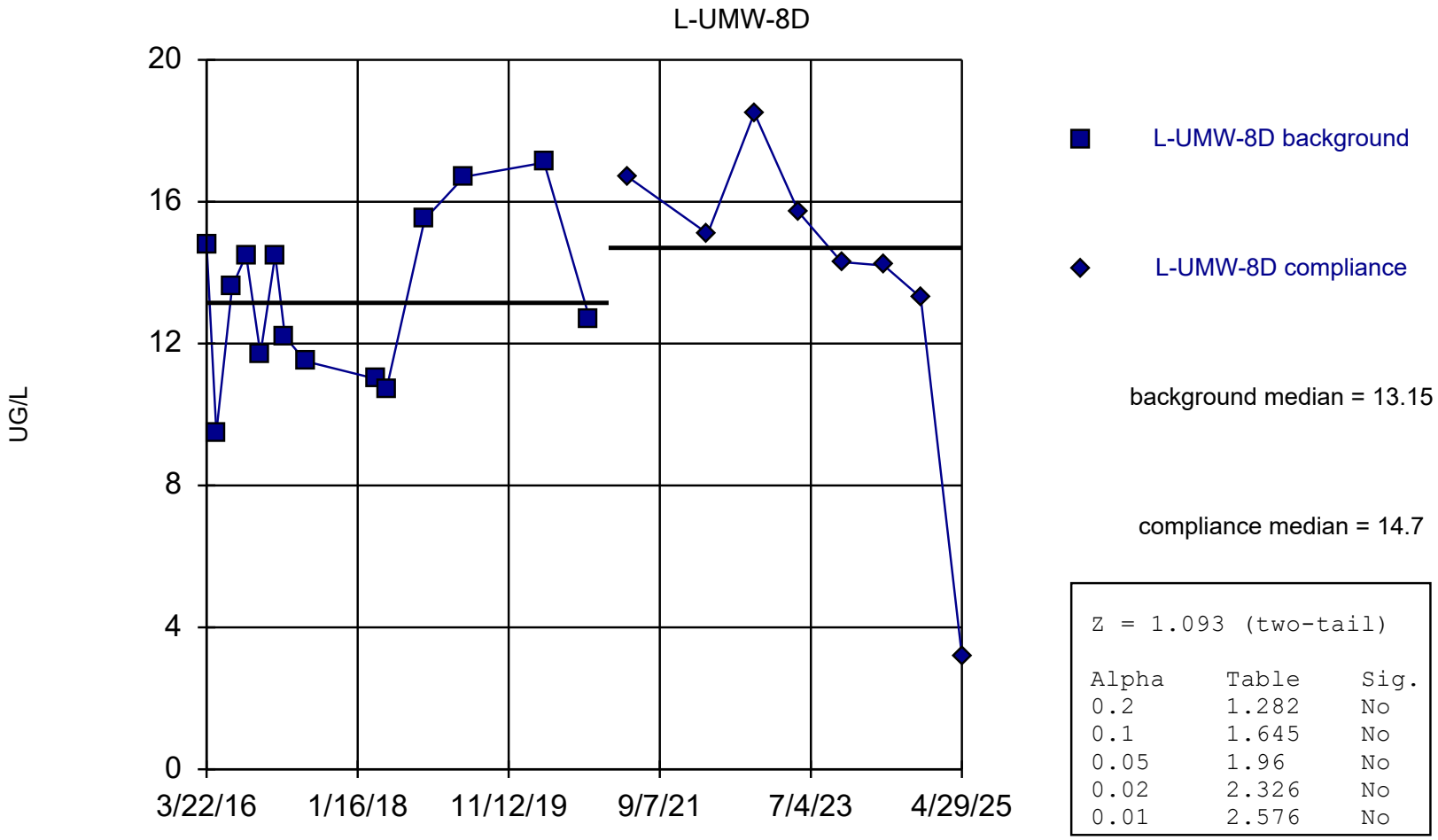
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	Yes
0.02	2.326	Yes
0.01	2.576	Yes

Constituent: MOLYBDENUM, TOTAL Analysis Run 8/27/2025 3:56 PM

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG

Mann-Whitney (Wilcoxon Rank Sum)



Z = 1.093 (two-tail)

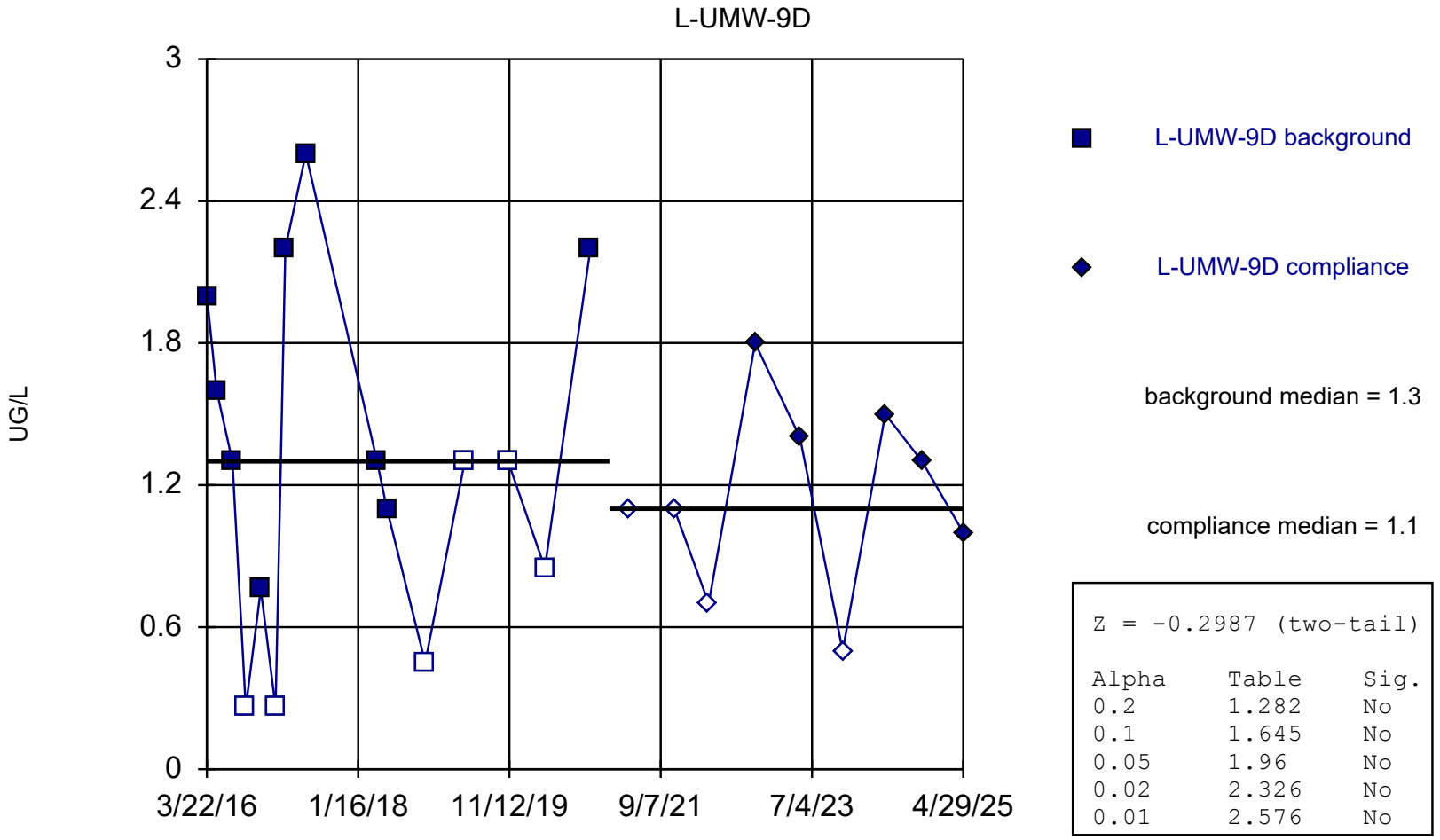
Alpha	Table	Sig.
0.2	1.282	No
0.1	1.645	No
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: MOLYBDENUM, TOTAL Analysis Run 8/27/2025 3:56 PM

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)



Z = -0.2987 (two-tail)

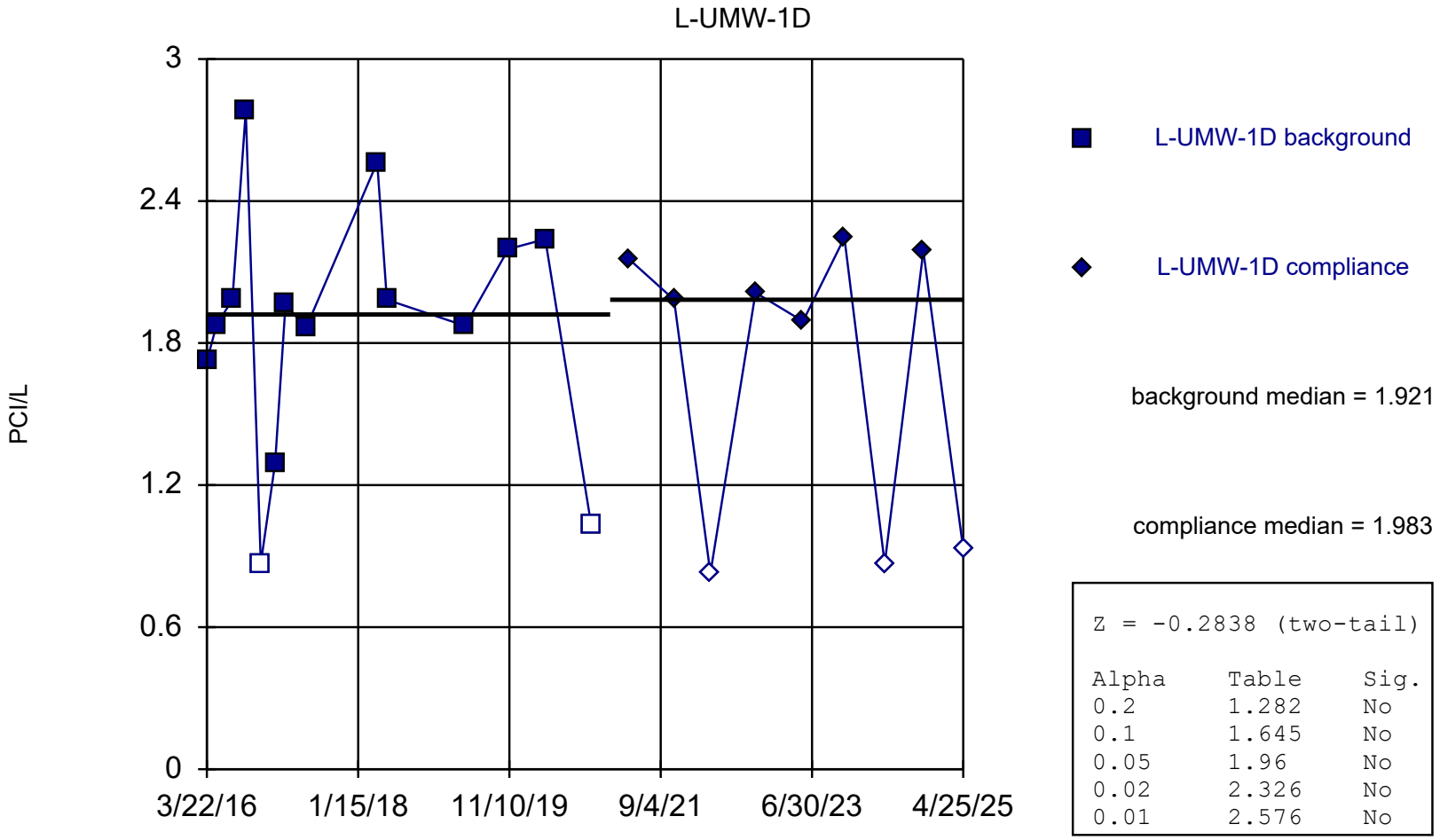
Alpha	Table	Sig.
0.2	1.282	No
0.1	1.645	No
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: MOLYBDENUM, TOTAL Analysis Run 8/27/2025 3:56 PM

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)



Z = -0.2838 (two-tail)

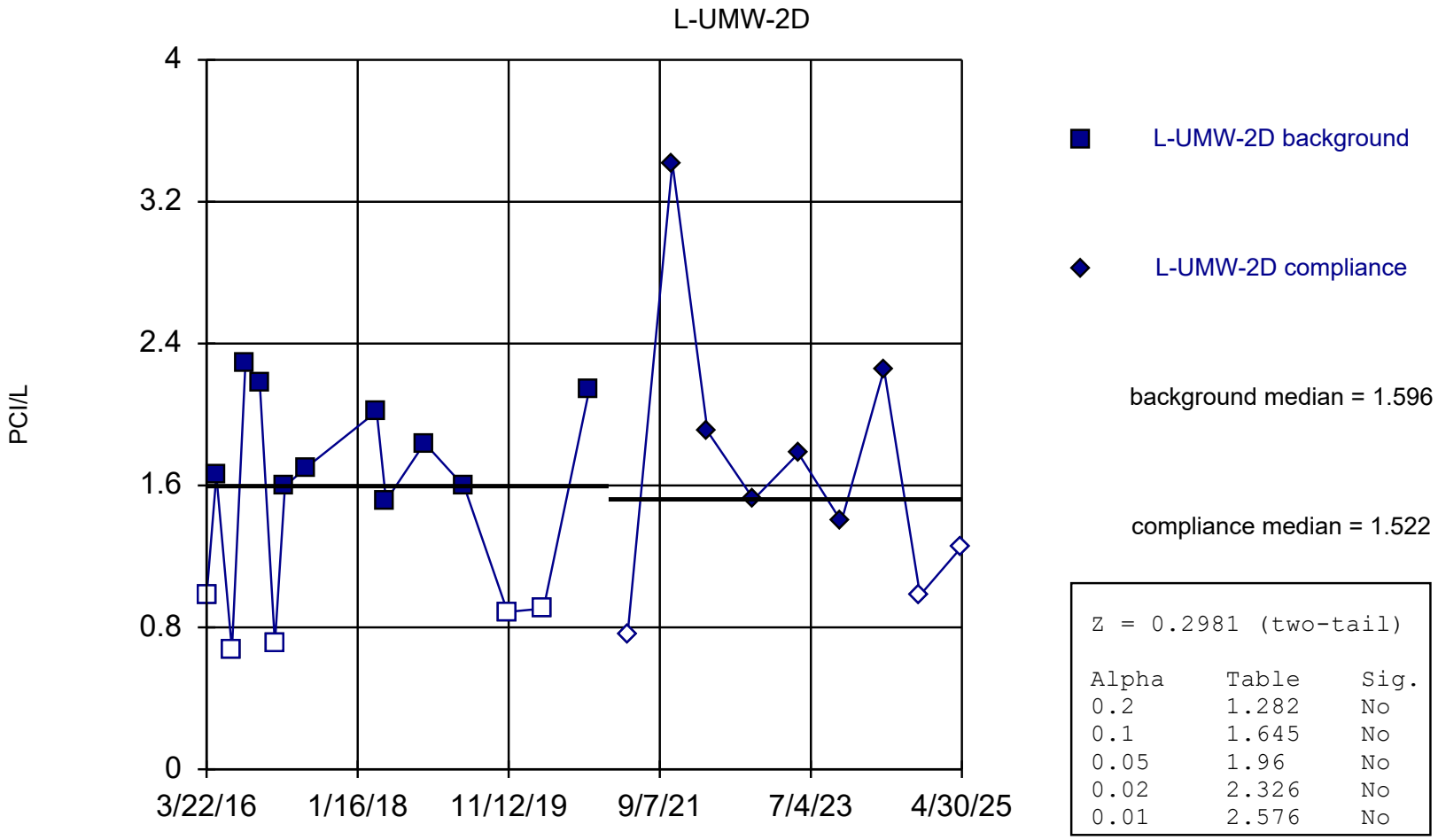
Alpha	Table	Sig.
0.2	1.282	No
0.1	1.645	No
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: Radium [226 + 228] Analysis Run 8/27/2025 3:56 PM

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)



Z = 0.2981 (two-tail)

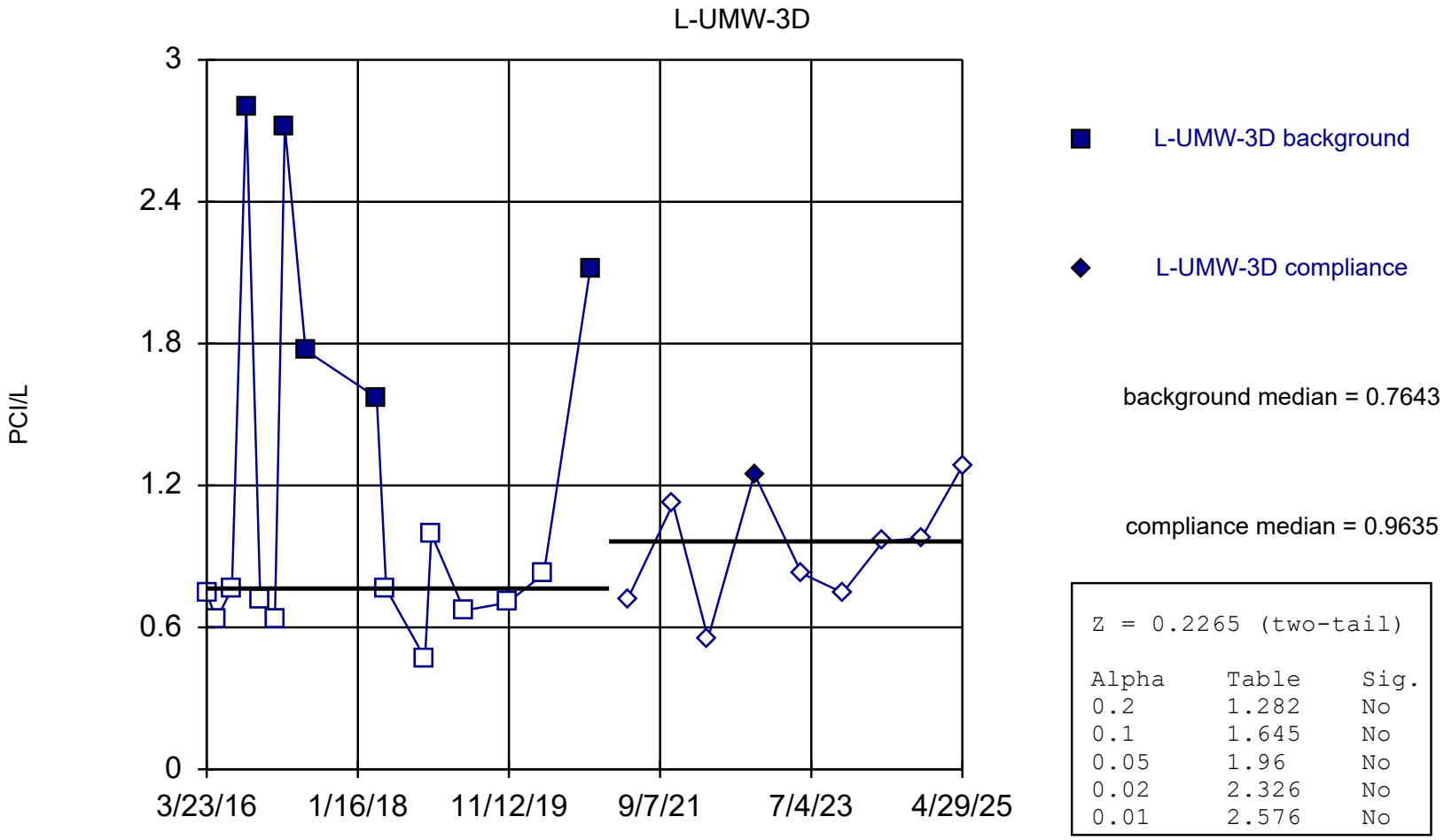
Alpha	Table	Sig.
0.2	1.282	No
0.1	1.645	No
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: Radium [226 + 228] Analysis Run 8/27/2025 3:56 PM

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)



Z = 0.2265 (two-tail)

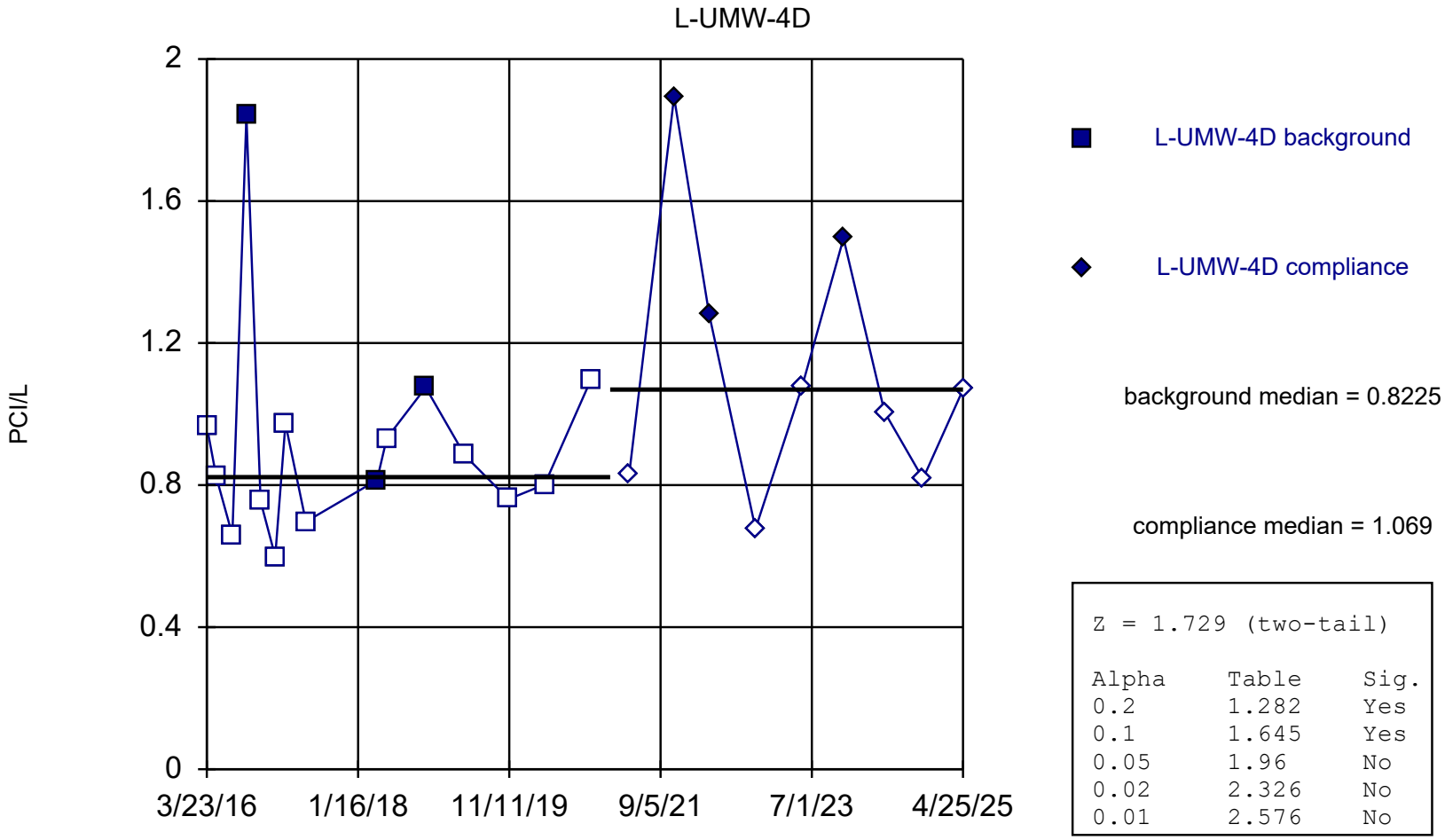
Alpha	Table	Sig.
0.2	1.282	No
0.1	1.645	No
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: Radium [226 + 228] Analysis Run 8/27/2025 3:56 PM

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)



Z = 1.729 (two-tail)

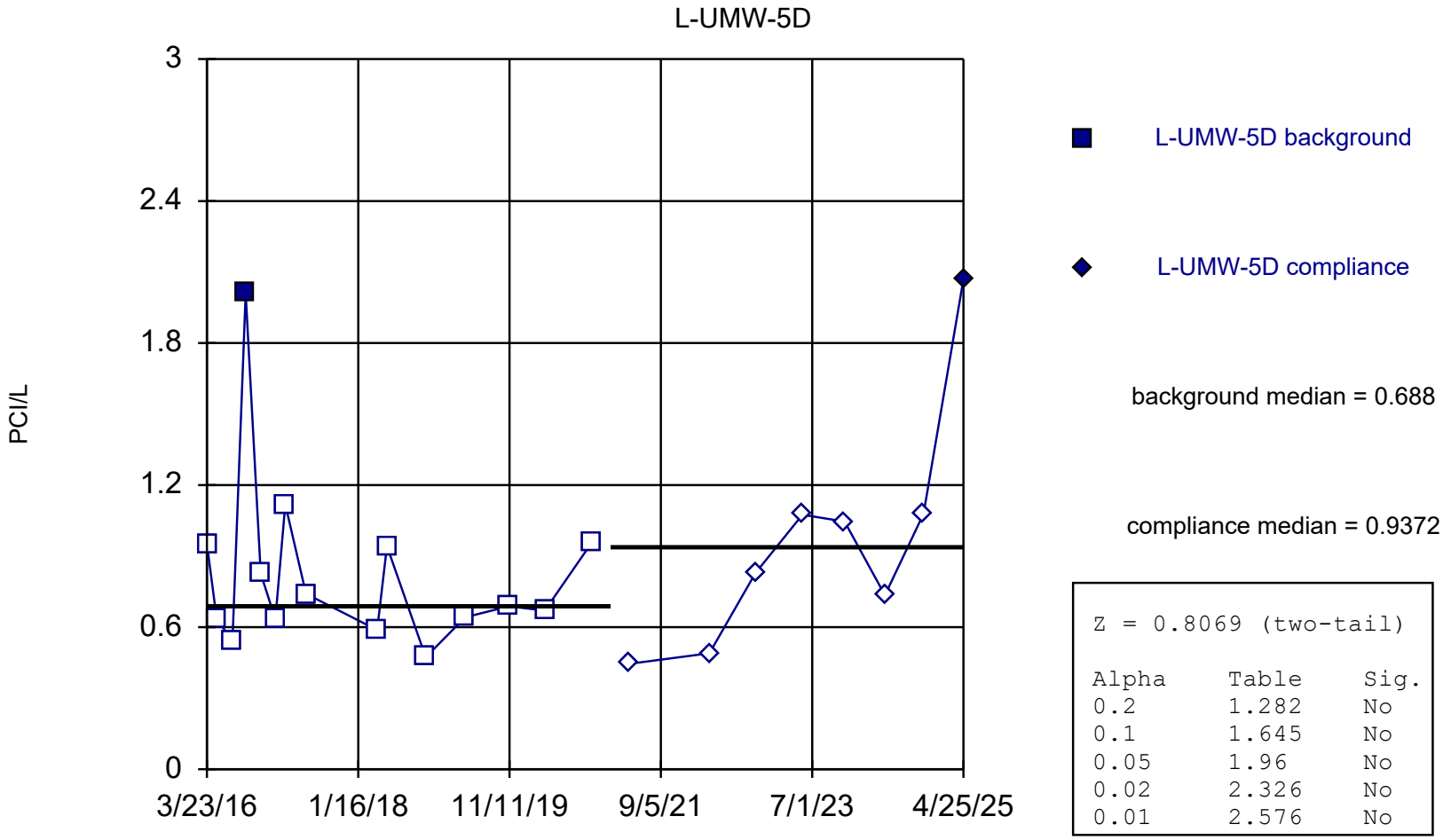
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: Radium [226 + 228] Analysis Run 8/27/2025 3:56 PM

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)



Z = 0.8069 (two-tail)

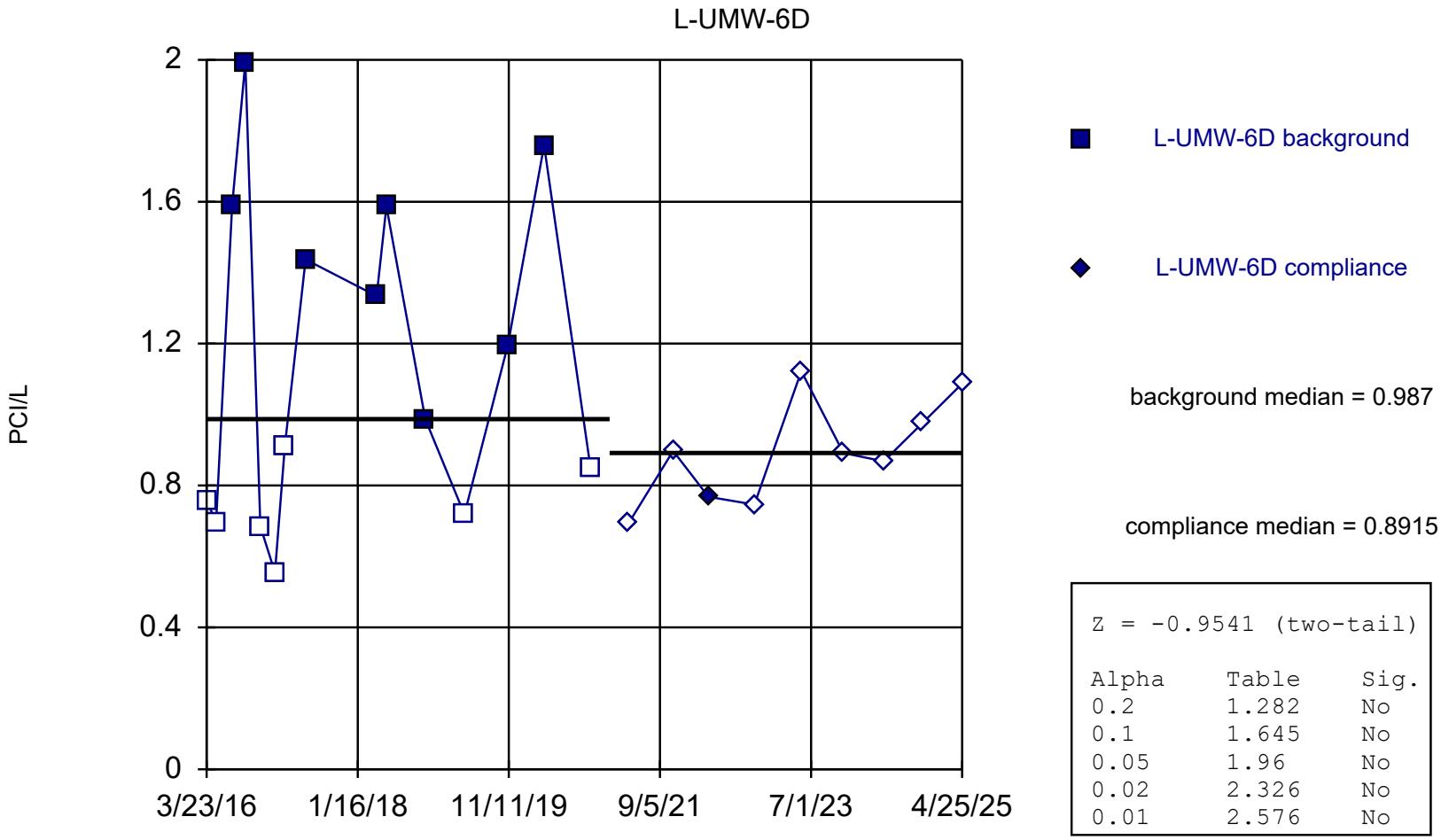
Alpha	Table	Sig.
0.2	1.282	No
0.1	1.645	No
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: Radium [226 + 228] Analysis Run 8/27/2025 3:56 PM

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)



Z = -0.9541 (two-tail)

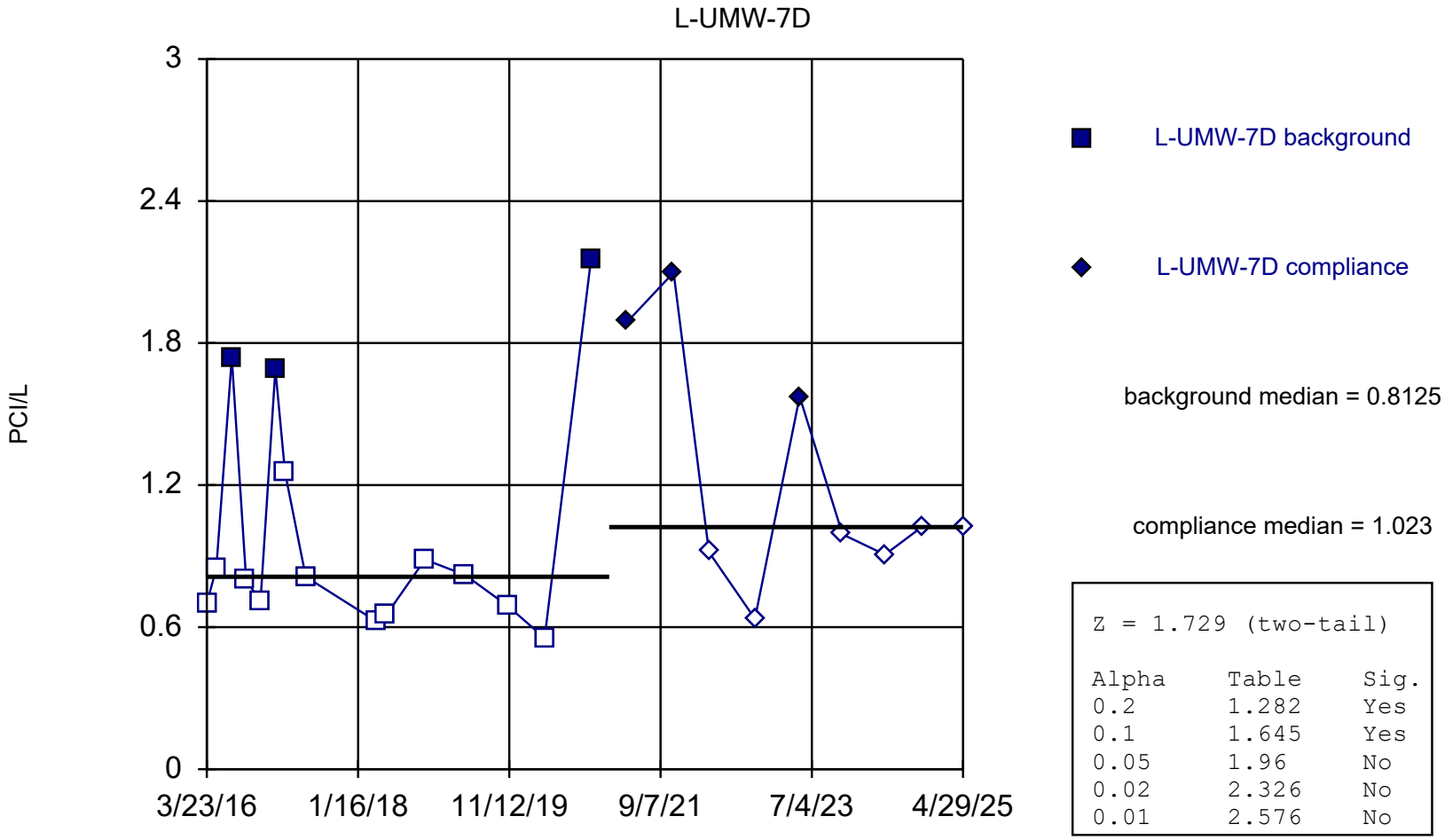
Alpha	Table	Sig.
0.2	1.282	No
0.1	1.645	No
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: Radium [226 + 228] Analysis Run 8/27/2025 3:56 PM

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)



Z = 1.729 (two-tail)

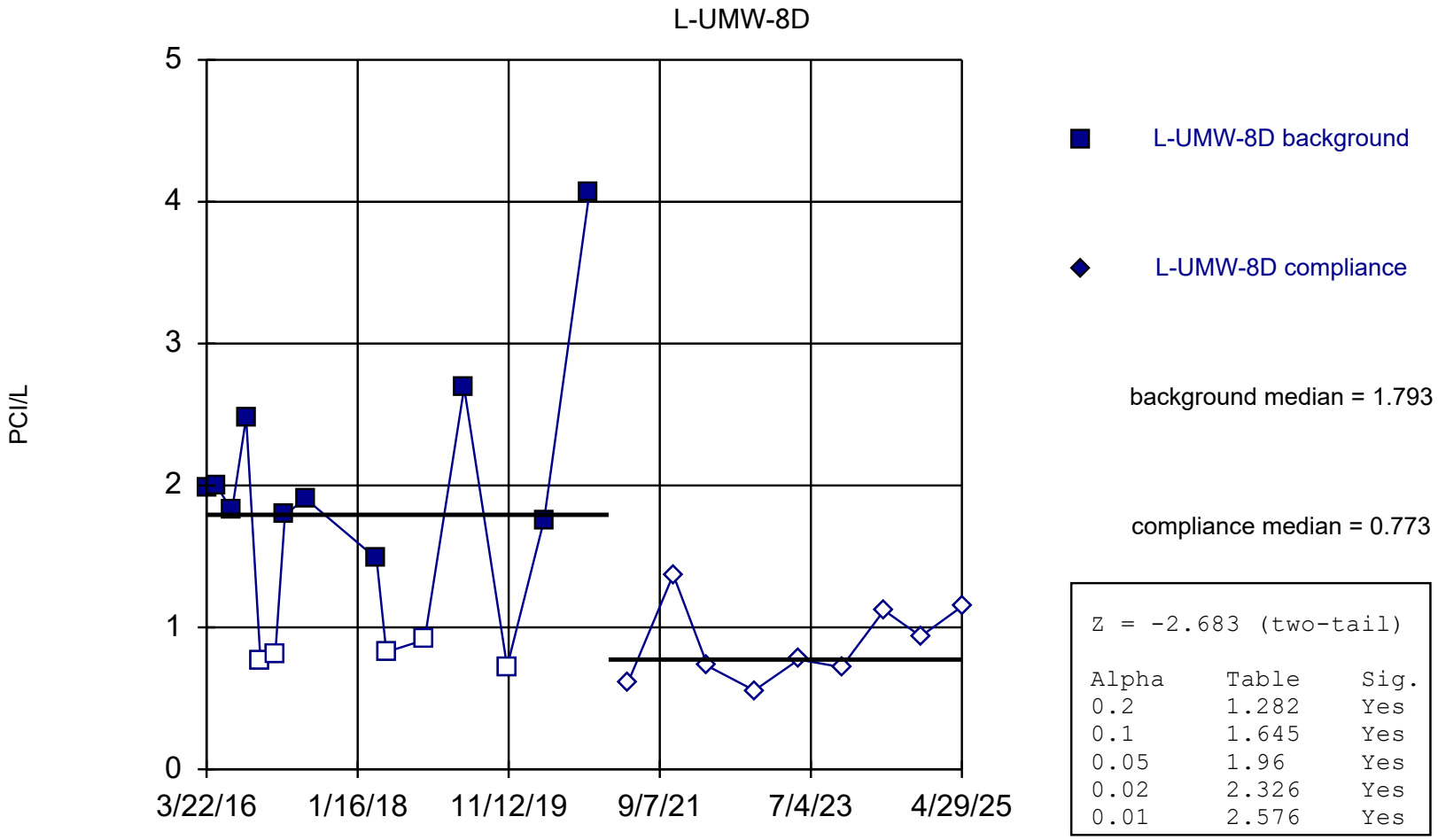
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: Radium [226 + 228] Analysis Run 8/27/2025 3:56 PM

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)



Z = -2.683 (two-tail)

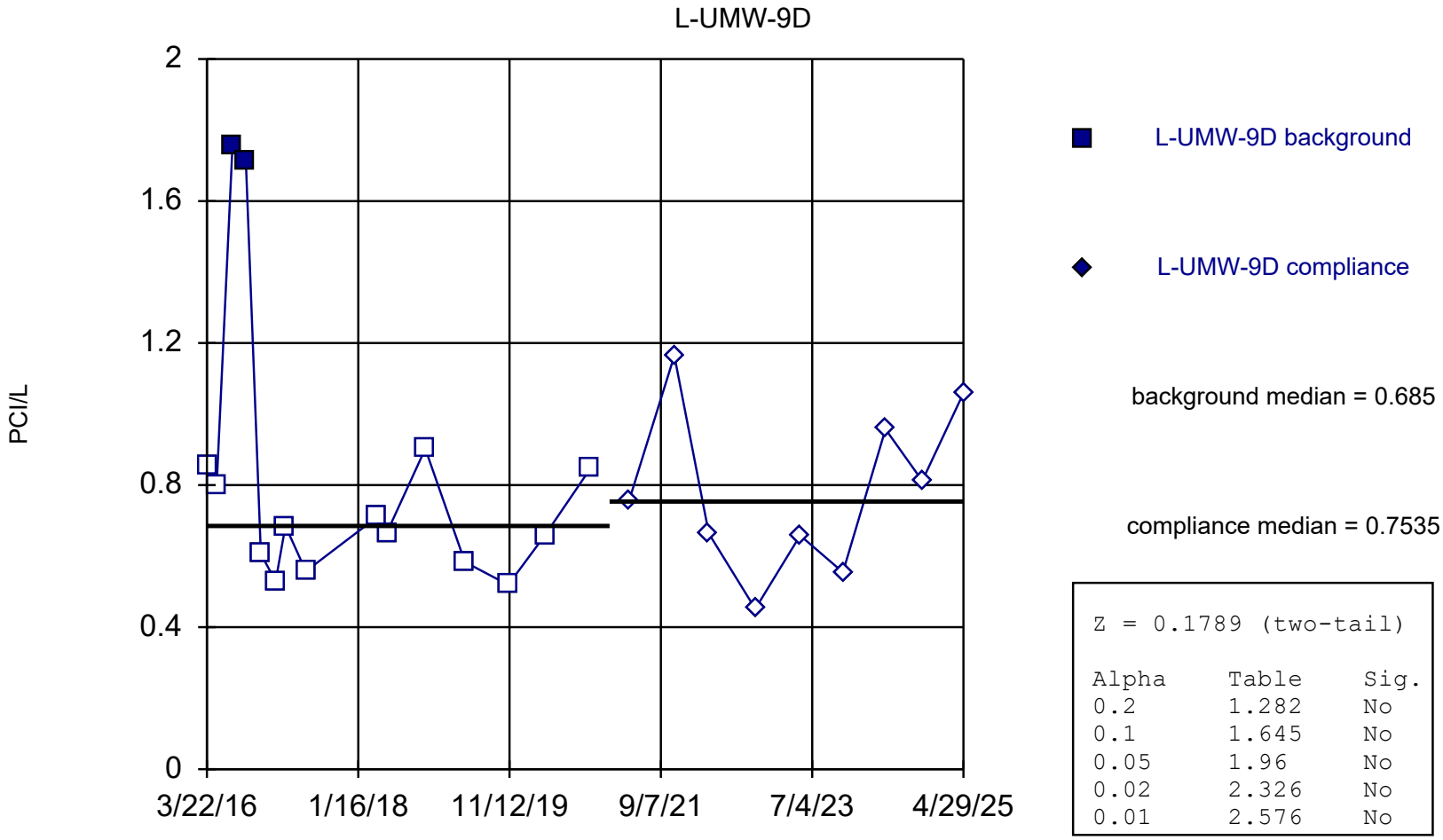
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	Yes
0.02	2.326	Yes
0.01	2.576	Yes

Constituent: Radium [226 + 228] Analysis Run 8/27/2025 3:56 PM

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)



Z = 0.1789 (two-tail)

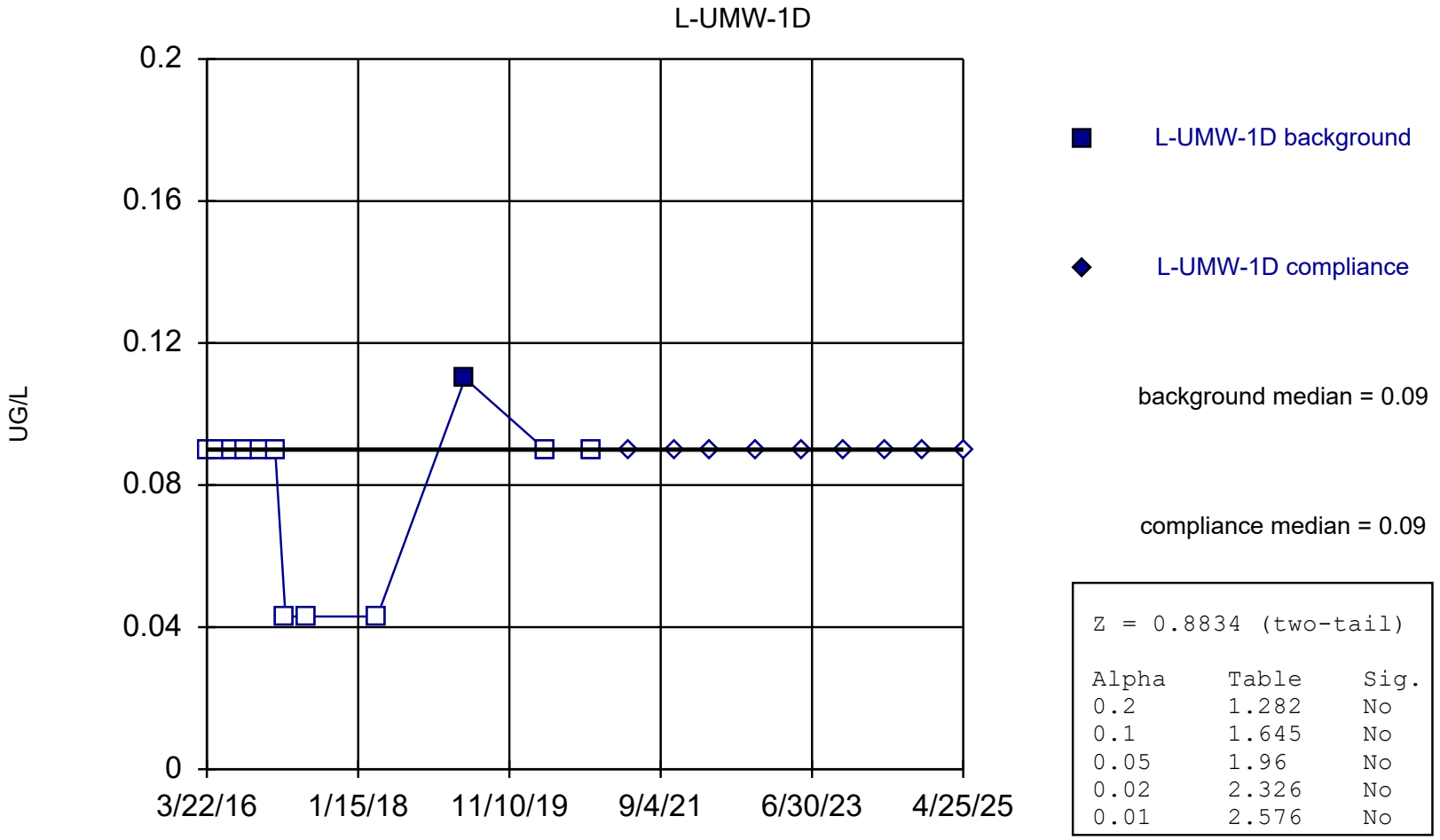
Alpha	Table	Sig.
0.2	1.282	No
0.1	1.645	No
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: Radium [226 + 228] Analysis Run 8/27/2025 3:56 PM

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)



Z = 0.8834 (two-tail)

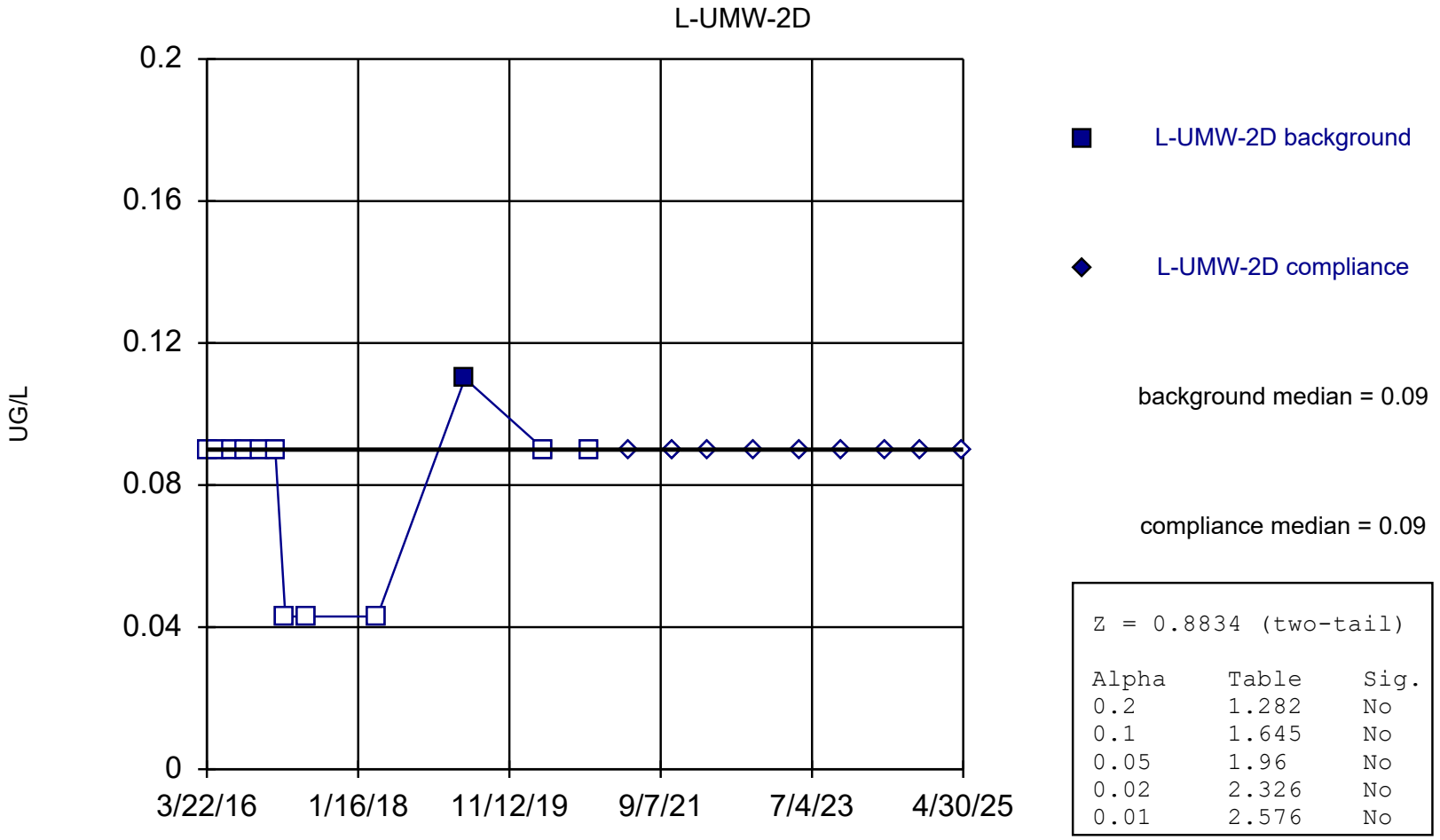
Alpha	Table	Sig.
0.2	1.282	No
0.1	1.645	No
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: SELENIUM, TOTAL Analysis Run 8/27/2025 3:56 PM

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)



Z = 0.8834 (two-tail)

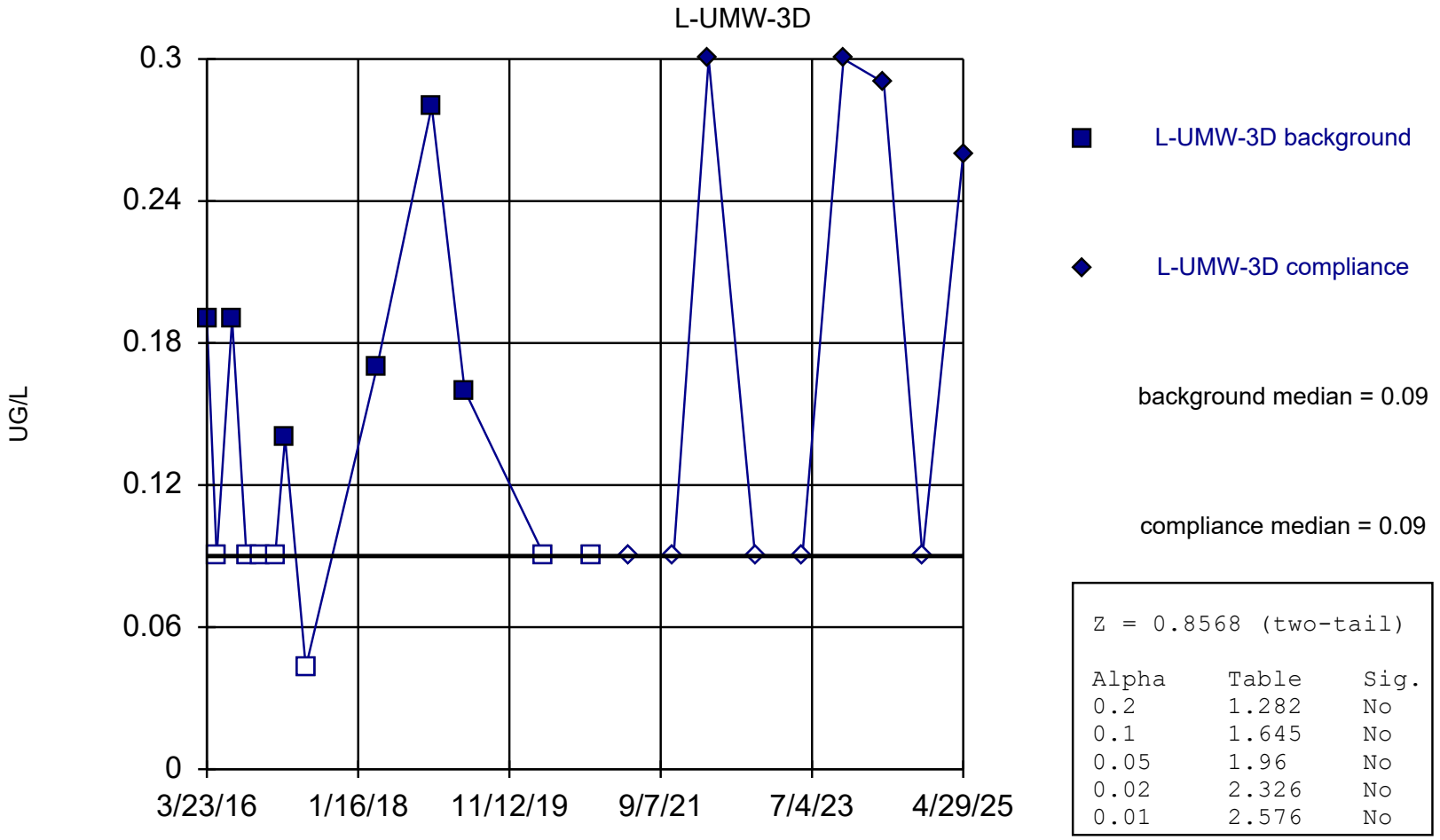
Alpha	Table	Sig.
0.2	1.282	No
0.1	1.645	No
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: SELENIUM, TOTAL Analysis Run 8/27/2025 3:56 PM

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)



Z = 0.8568 (two-tail)

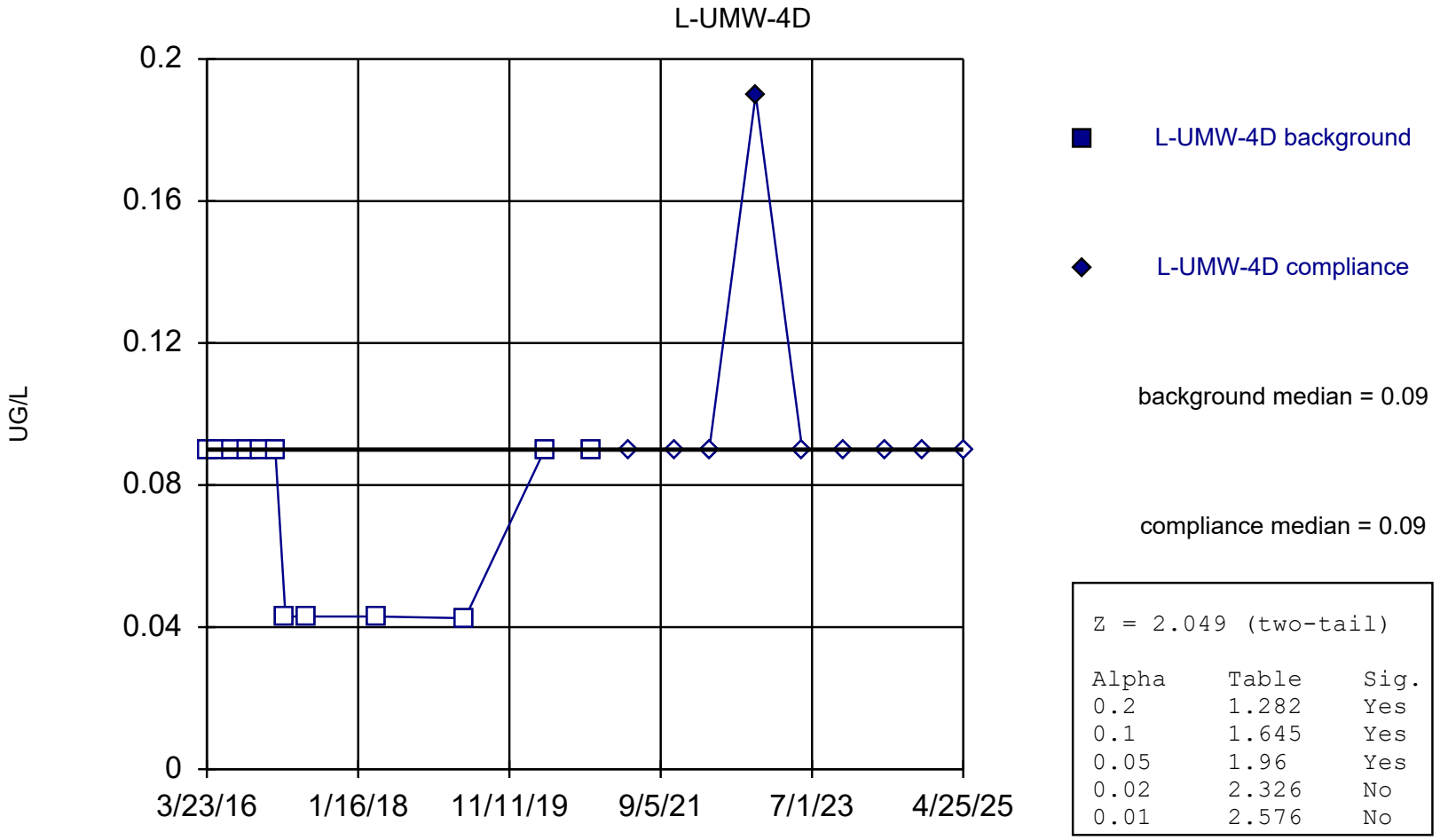
Alpha	Table	Sig.
0.2	1.282	No
0.1	1.645	No
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: SELENIUM, TOTAL Analysis Run 8/27/2025 3:56 PM

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)



Z = 2.049 (two-tail)

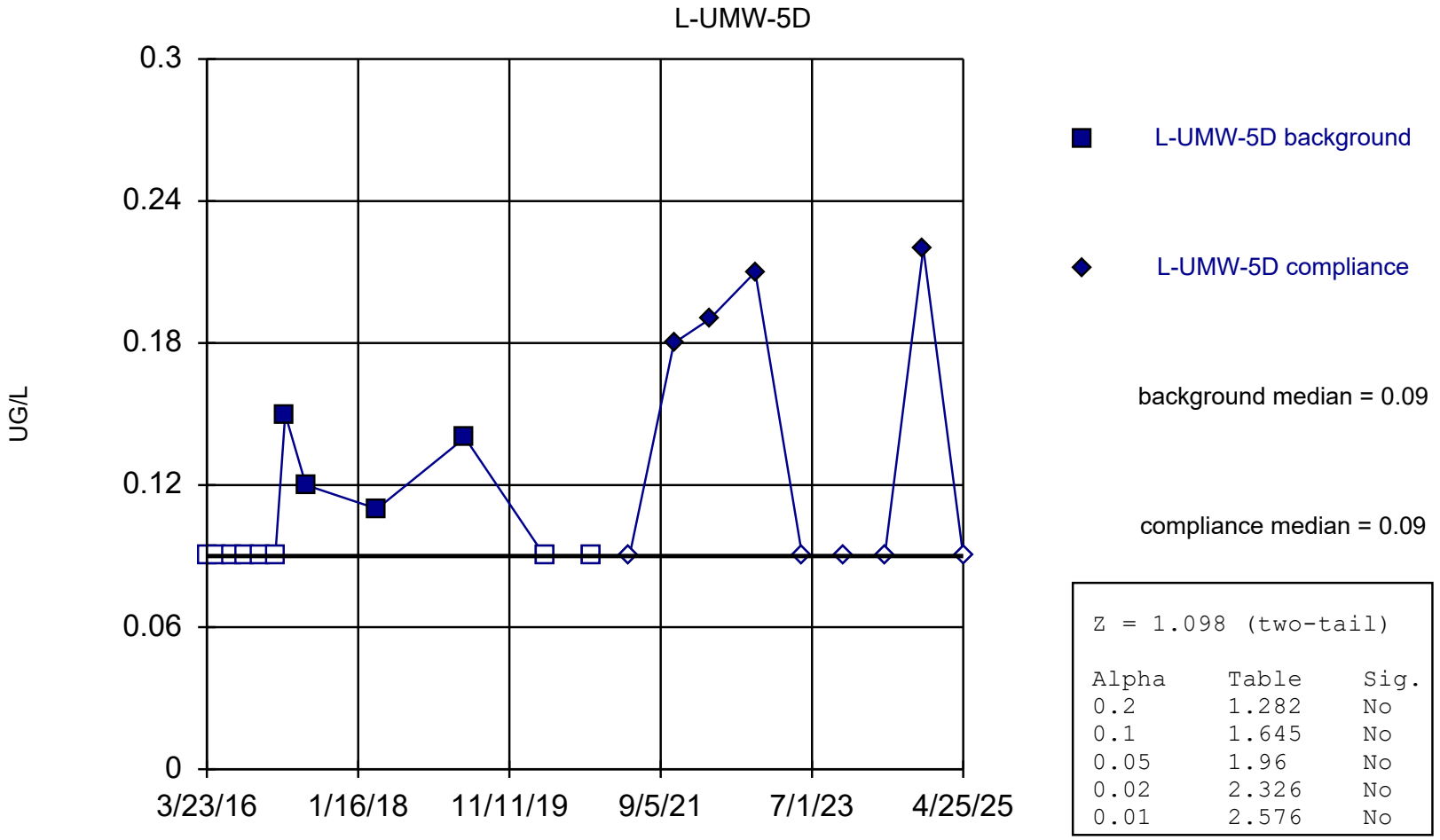
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	Yes
0.02	2.326	No
0.01	2.576	No

Constituent: SELENIUM, TOTAL Analysis Run 8/27/2025 3:57 PM

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)



Z = 1.098 (two-tail)

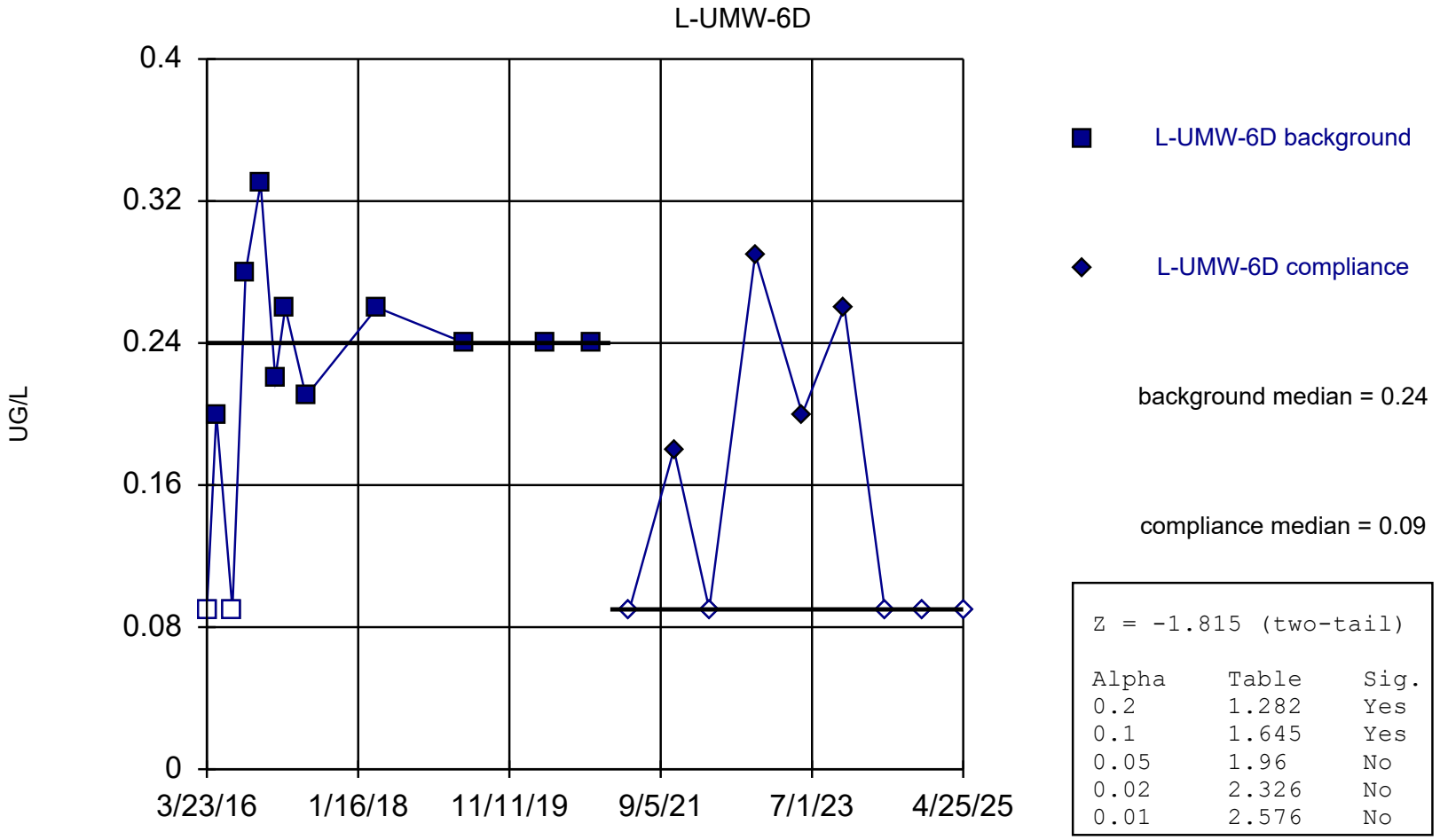
Alpha	Table	Sig.
0.2	1.282	No
0.1	1.645	No
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: SELENIUM, TOTAL Analysis Run 8/27/2025 3:57 PM

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)



Z = -1.815 (two-tail)

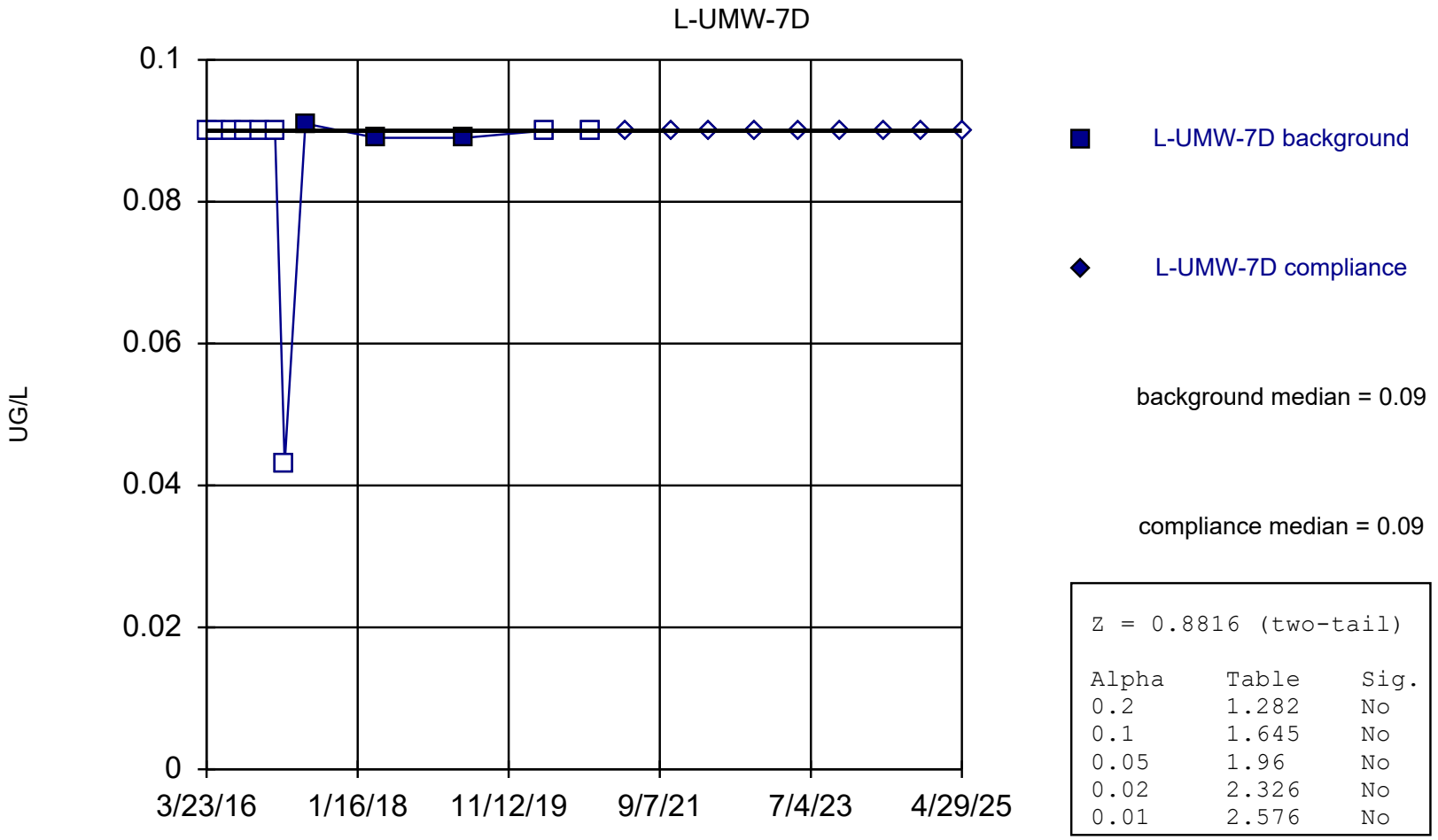
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: SELENIUM, TOTAL Analysis Run 8/27/2025 3:57 PM

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)



Z = 0.8816 (two-tail)

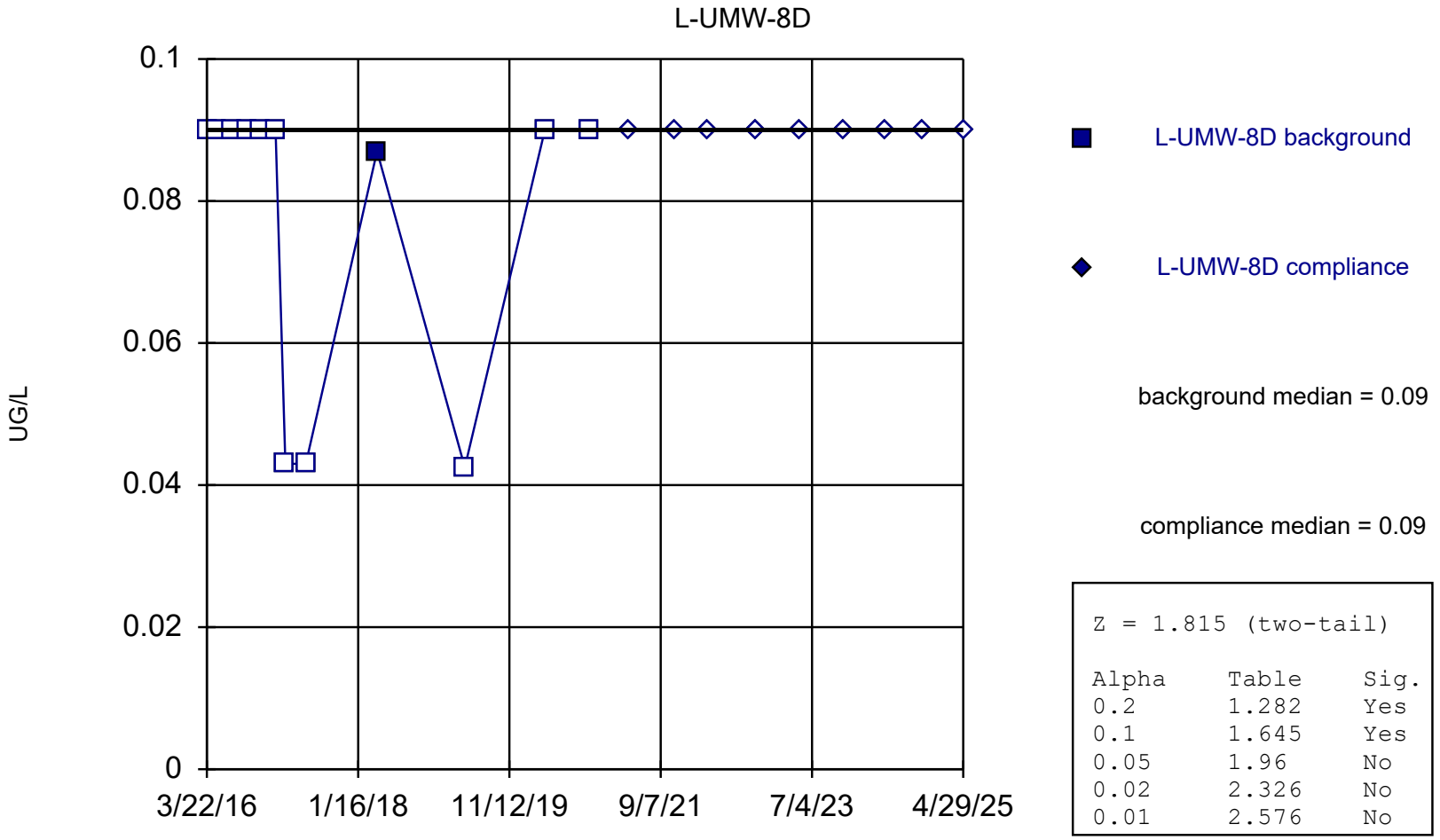
Alpha	Table	Sig.
0.2	1.282	No
0.1	1.645	No
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: SELENIUM, TOTAL Analysis Run 8/27/2025 3:57 PM

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)



Z = 1.815 (two-tail)

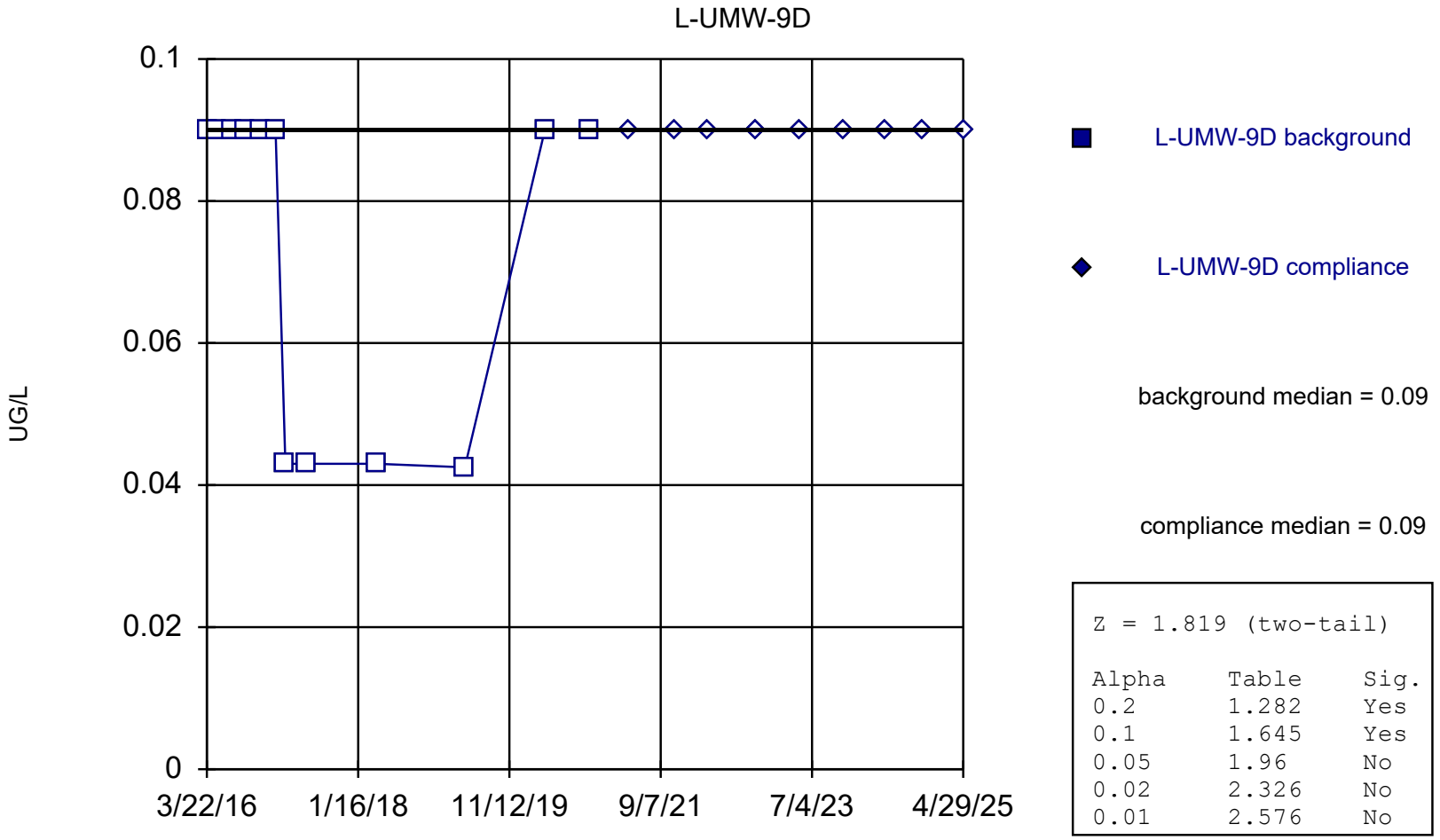
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: SELENIUM, TOTAL Analysis Run 8/27/2025 3:57 PM

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)



Z = 1.819 (two-tail)

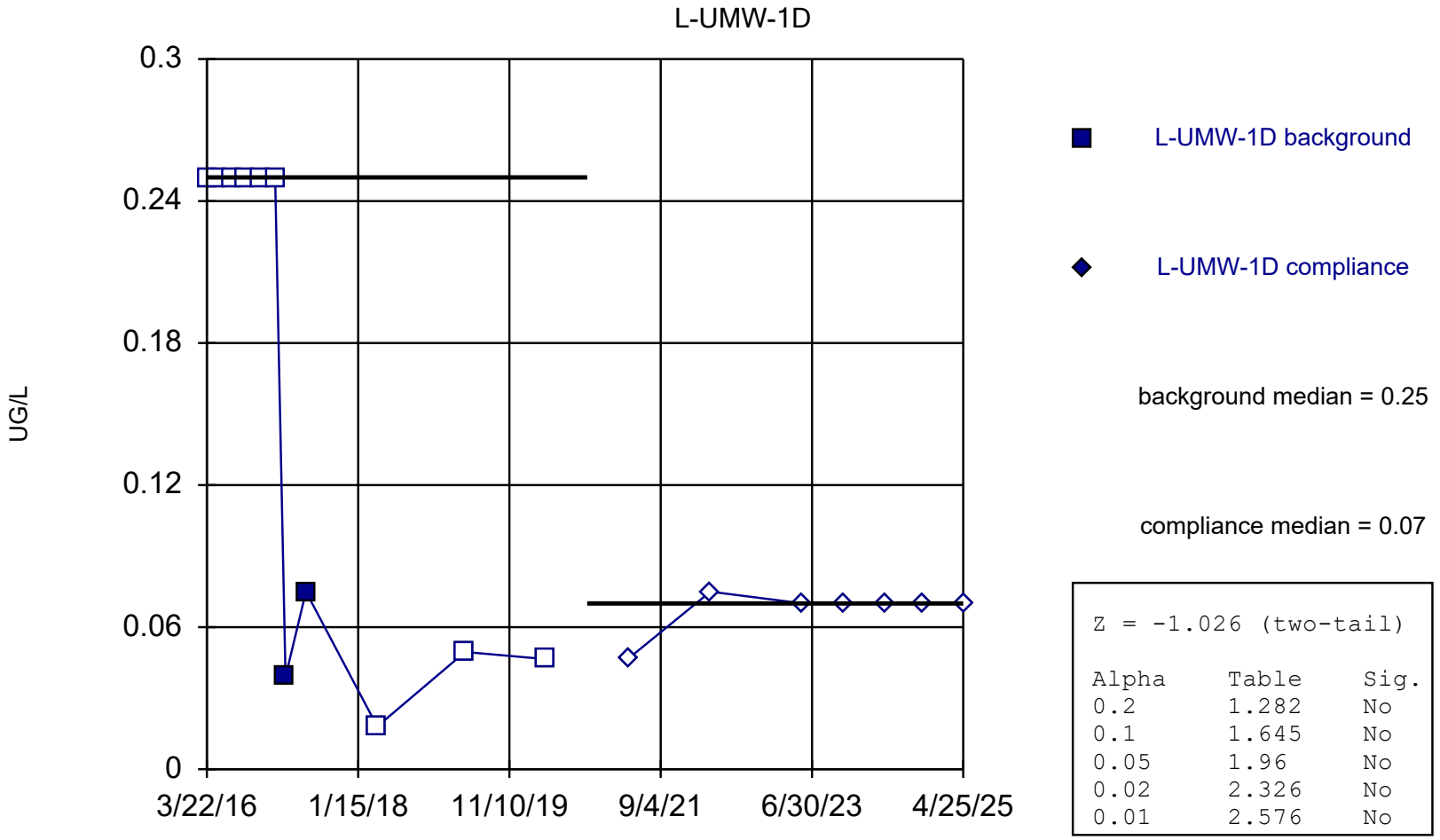
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: SELENIUM, TOTAL Analysis Run 8/27/2025 3:57 PM

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)



Z = -1.026 (two-tail)

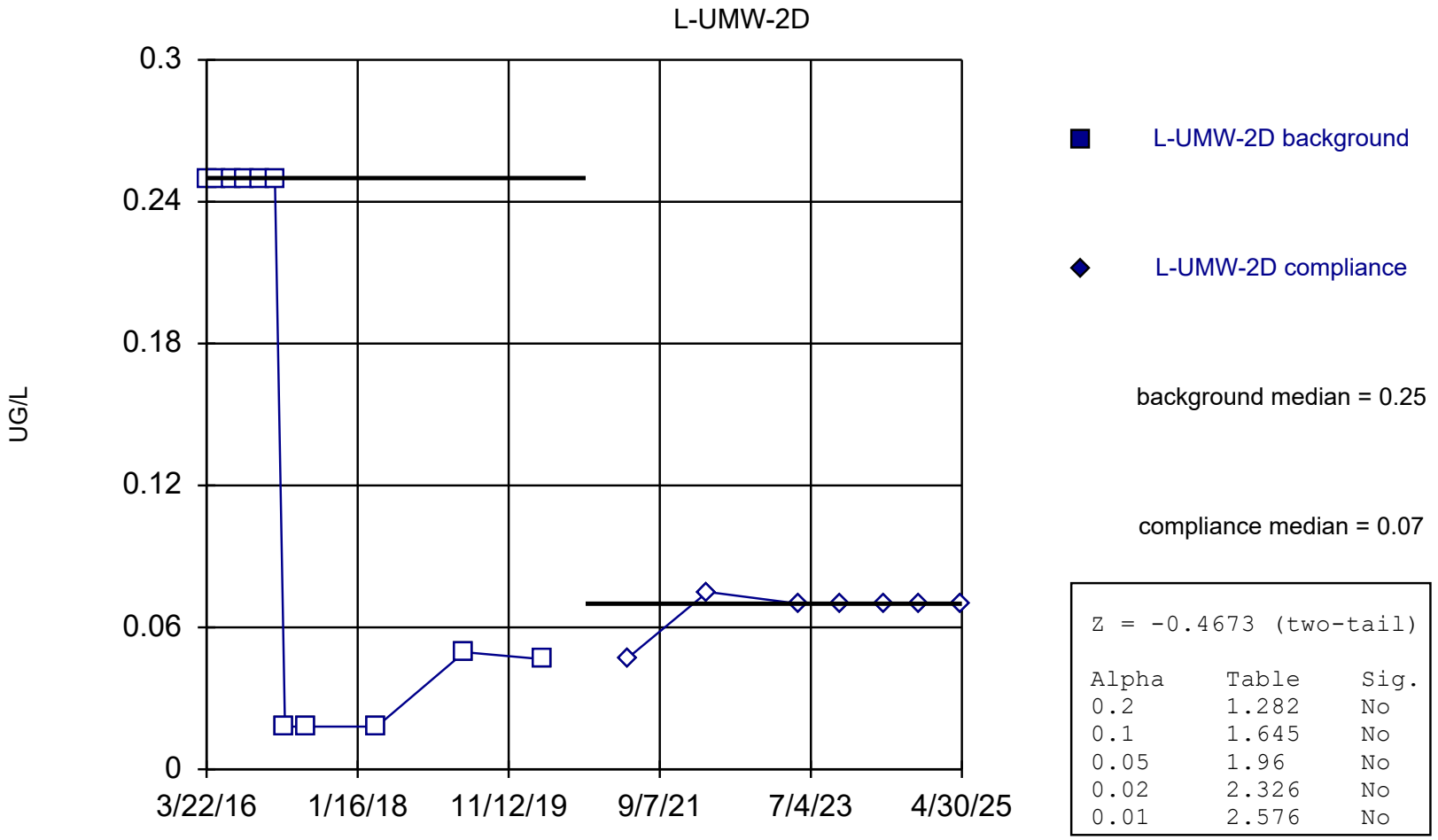
Alpha	Table	Sig.
0.2	1.282	No
0.1	1.645	No
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: THALLIUM, TOTAL Analysis Run 8/27/2025 3:57 PM

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)



Z = -0.4673 (two-tail)

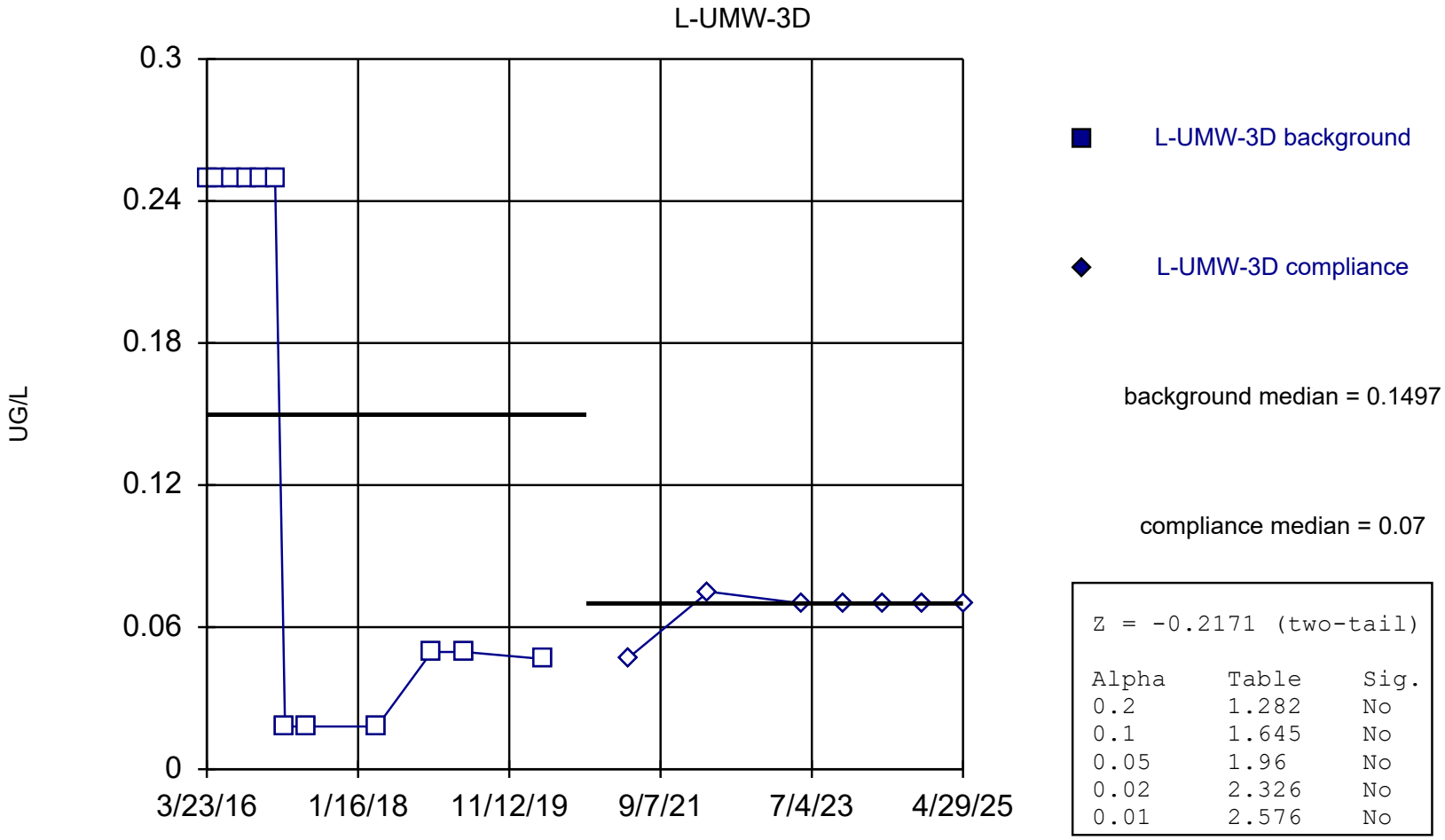
Alpha	Table	Sig.
0.2	1.282	No
0.1	1.645	No
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: THALLIUM, TOTAL Analysis Run 8/27/2025 3:57 PM

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)



Z = -0.2171 (two-tail)

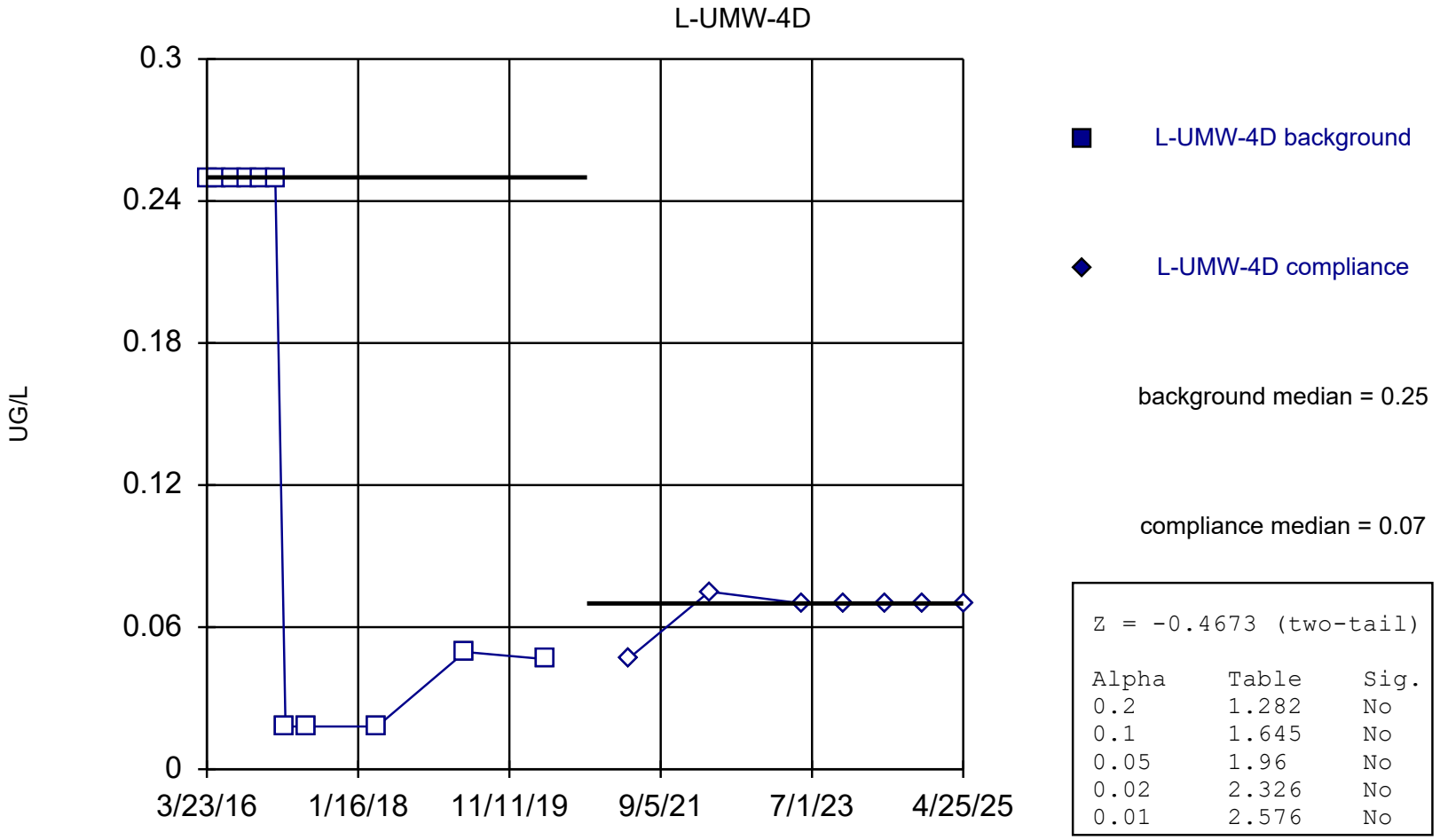
Alpha	Table	Sig.
0.2	1.282	No
0.1	1.645	No
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: THALLIUM, TOTAL Analysis Run 8/27/2025 3:57 PM

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)



Z = -0.4673 (two-tail)

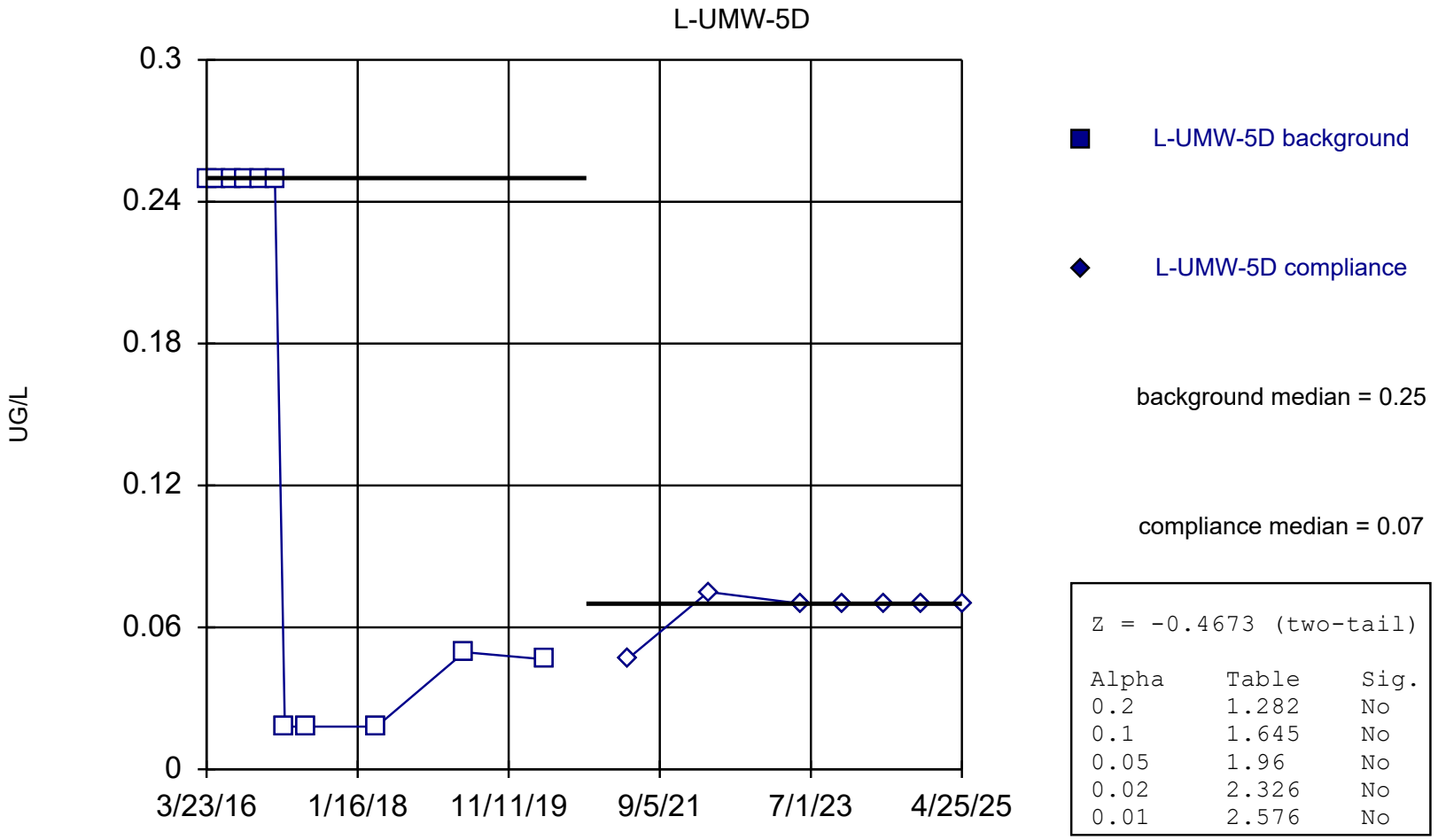
Alpha	Table	Sig.
0.2	1.282	No
0.1	1.645	No
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: THALLIUM, TOTAL Analysis Run 8/27/2025 3:57 PM

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)



Z = -0.4673 (two-tail)

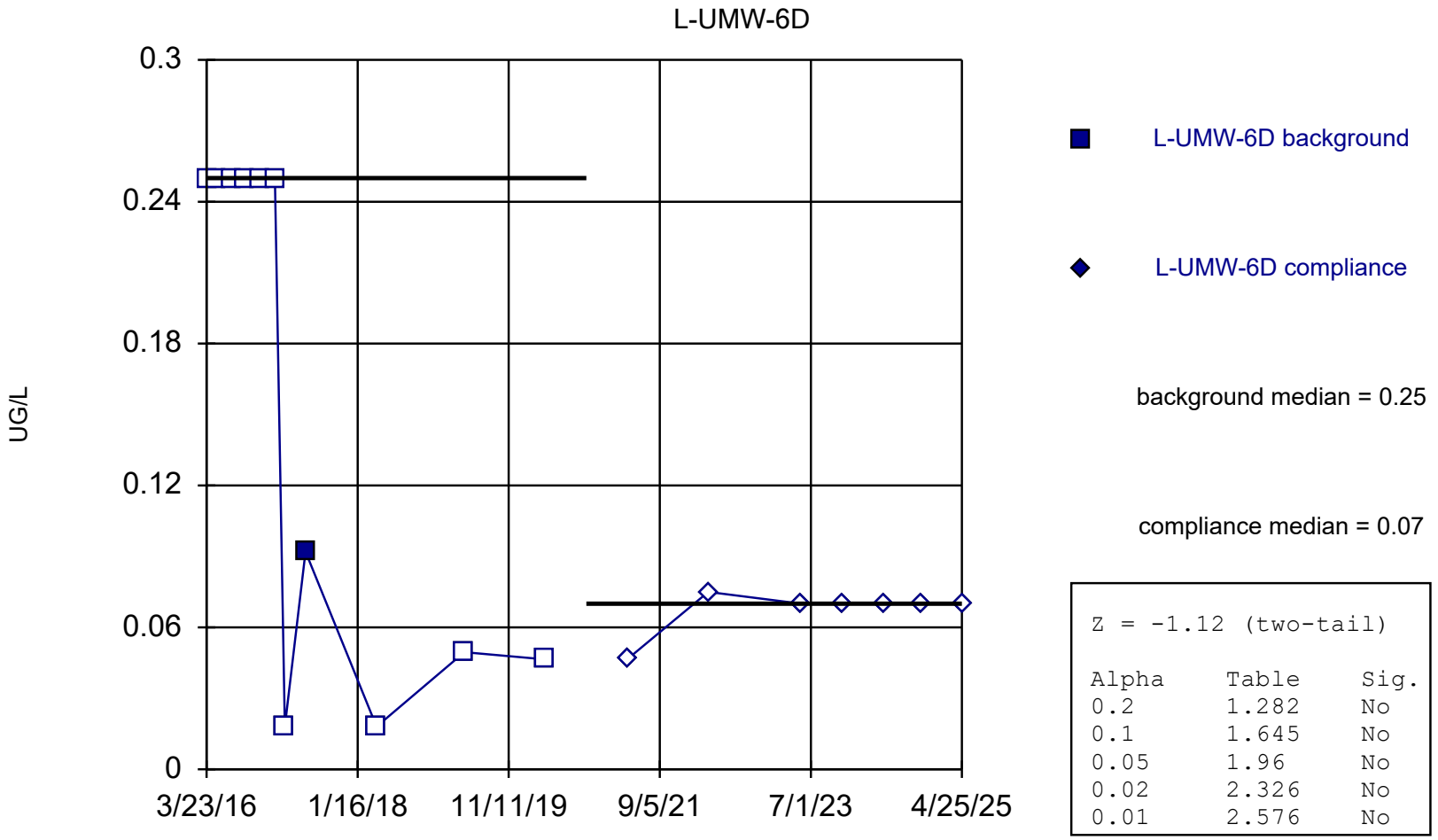
Alpha	Table	Sig.
0.2	1.282	No
0.1	1.645	No
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: THALLIUM, TOTAL Analysis Run 8/27/2025 3:57 PM

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)



Z = -1.12 (two-tail)

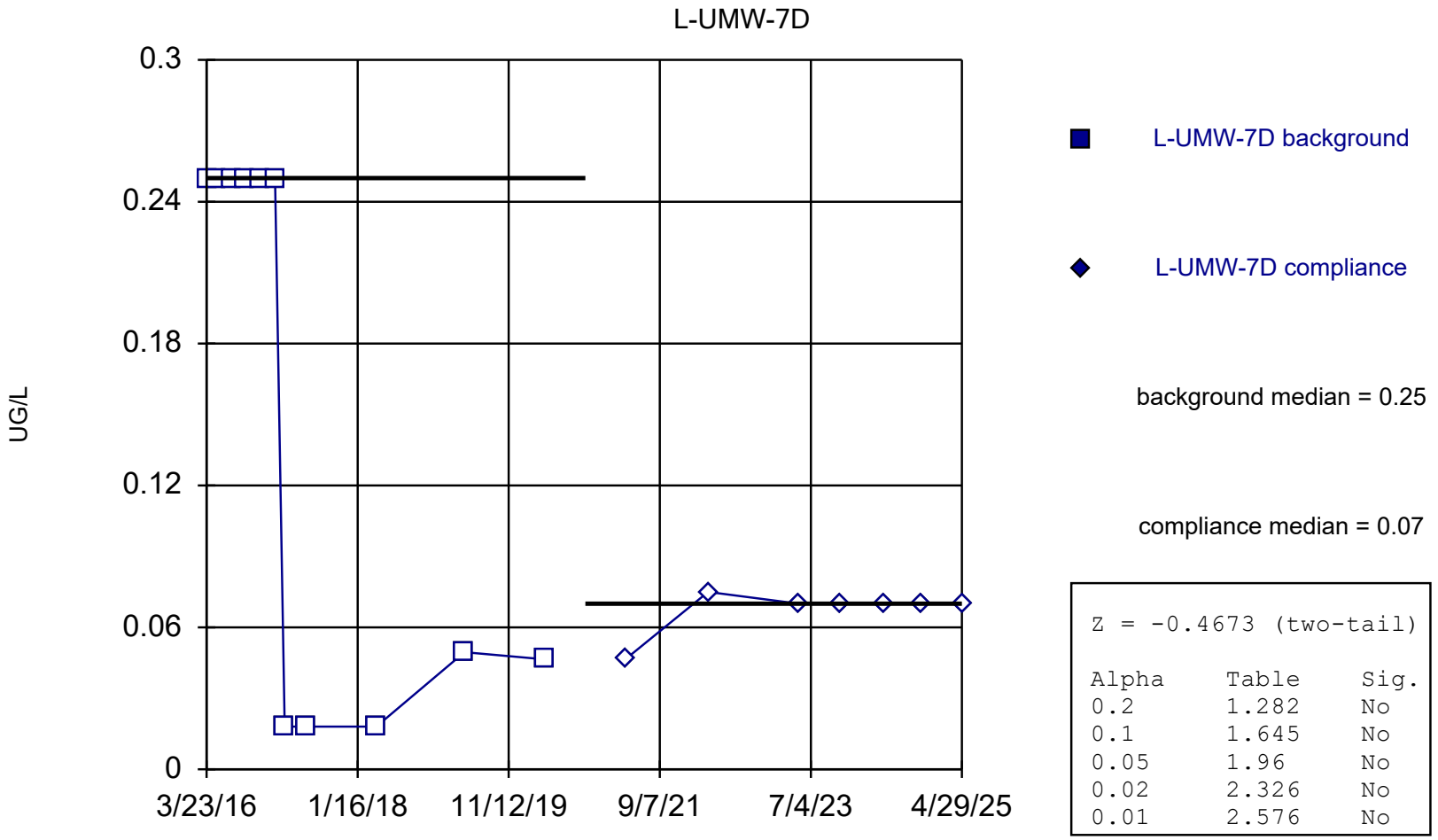
Alpha	Table	Sig.
0.2	1.282	No
0.1	1.645	No
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: THALLIUM, TOTAL Analysis Run 8/27/2025 3:57 PM

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)



Z = -0.4673 (two-tail)

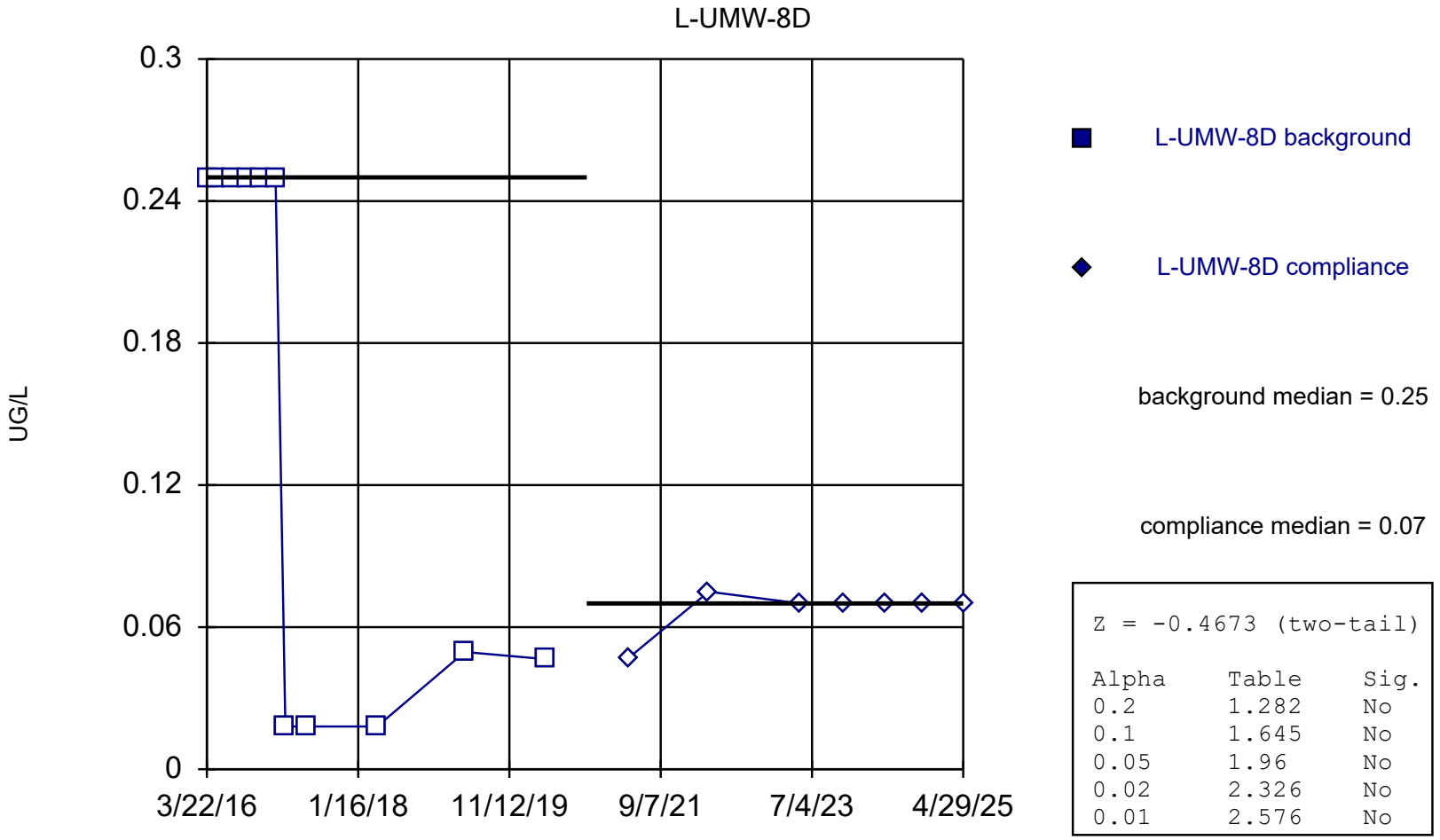
Alpha	Table	Sig.
0.2	1.282	No
0.1	1.645	No
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: THALLIUM, TOTAL Analysis Run 8/27/2025 3:57 PM

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)



Z = -0.4673 (two-tail)

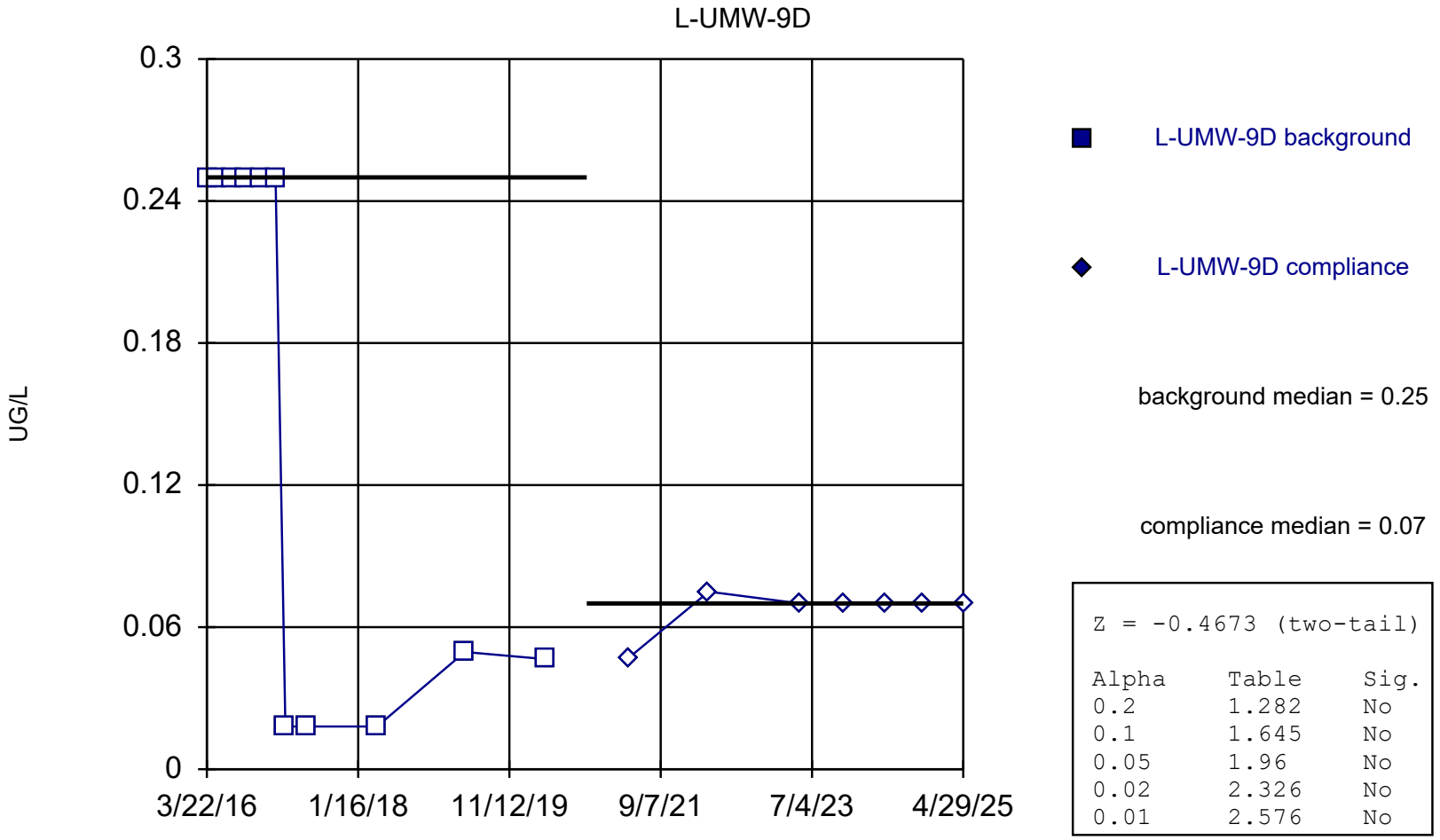
Alpha	Table	Sig.
0.2	1.282	No
0.1	1.645	No
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: THALLIUM, TOTAL Analysis Run 8/27/2025 3:57 PM

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)



Z = -0.4673 (two-tail)

Alpha	Table	Sig.
0.2	1.282	No
0.1	1.645	No
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: THALLIUM, TOTAL Analysis Run 8/27/2025 3:57 PM

Labadie E.C. Client: Ameren Data: LEC DATA 2

Welch's t-test/Mann-Whitney

Labadie E.C. Client: Ameren Data: LEC DATA 2 Printed 8/27/2025, 4:25 PM

Constituent	Well	Calc.	0.1	0.05	0.025	0.01	Method
ANTIMONY, TOTAL (UG/L)	**L-UMW-1D**	**3.012**	**Yes**	**Yes**	**Yes**	**Yes**	**Mann-W**
ANTIMONY, TOTAL (UG/L)	**L-UMW-2D**	**3.629**	**Yes**	**Yes**	**Yes**	**Yes**	**Mann-W**
ANTIMONY, TOTAL (UG/L)	**L-UMW-3D**	**2.514**	**Yes**	**Yes**	**Yes**	**No**	**Mann-W**
ANTIMONY, TOTAL (UG/L)	**L-UMW-4D**	**2.996**	**Yes**	**Yes**	**Yes**	**Yes**	**Mann-W**
ANTIMONY, TOTAL (UG/L)	L-UMW-5D	-0....	No	No	No	No	Mann-W
ANTIMONY, TOTAL (UG/L)	**L-UMW-6D**	**2.996**	**Yes**	**Yes**	**Yes**	**Yes**	**Mann-W**
ANTIMONY, TOTAL (UG/L)	**L-UMW-7D**	**3.629**	**Yes**	**Yes**	**Yes**	**Yes**	**Mann-W**
ANTIMONY, TOTAL (UG/L)	**L-UMW-8D**	**3.629**	**Yes**	**Yes**	**Yes**	**Yes**	**Mann-W**
ANTIMONY, TOTAL (UG/L)	**L-UMW-9D**	**3.624**	**Yes**	**Yes**	**Yes**	**Yes**	**Mann-W**
ARSENIC, TOTAL (UG/L)	**L-UMW-1D**	**2.782**	**Yes**	**Yes**	**Yes**	**Yes**	**Mann-W**
ARSENIC, TOTAL (UG/L)	**L-UMW-2D**	**-3.913**	**Yes**	**Yes**	**Yes**	**Yes**	**Mann-W**
ARSENIC, TOTAL (UG/L)	L-UMW-3D	2.147	Yes	Yes	No	No	Mann-W
ARSENIC, TOTAL (UG/L)	L-UMW-4D	-0....	No	No	No	No	Mann-W
ARSENIC, TOTAL (UG/L)	L-UMW-5D	-0....	No	No	No	No	Mann-W
ARSENIC, TOTAL (UG/L)	L-UMW-6D	-0....	No	No	No	No	Mann-W
ARSENIC, TOTAL (UG/L)	**L-UMW-7D**	**3.459**	**Yes**	**Yes**	**Yes**	**Yes**	**Mann-W**
ARSENIC, TOTAL (UG/L)	L-UMW-8D	-0....	No	No	No	No	Mann-W
ARSENIC, TOTAL (UG/L)	**L-UMW-9D**	**-3.285**	**Yes**	**Yes**	**Yes**	**Yes**	**Mann-W**
BARIUM, TOTAL (UG/L)	**L-UMW-1D**	**2.983**	**Yes**	**Yes**	**Yes**	**Yes**	**Mann-W**
BARIUM, TOTAL (UG/L)	**L-UMW-2D**	**3.432**	**Yes**	**Yes**	**Yes**	**Yes**	**Mann-W**
BARIUM, TOTAL (UG/L)	**L-UMW-3D**	**-2.576**	**Yes**	**Yes**	**Yes**	**Yes**	**Mann-W**
BARIUM, TOTAL (UG/L)	L-UMW-4D	0	No	No	No	No	Mann-W
BARIUM, TOTAL (UG/L)	**L-UMW-5D**	**2.505**	**Yes**	**Yes**	**Yes**	**No**	**Mann-W**
BARIUM, TOTAL (UG/L)	**L-UMW-6D**	**-4.057**	**Yes**	**Yes**	**Yes**	**Yes**	**Mann-W**
BARIUM, TOTAL (UG/L)	L-UMW-7D	-1.014	No	No	No	No	Mann-W
BARIUM, TOTAL (UG/L)	**L-UMW-8D**	**-4.056**	**Yes**	**Yes**	**Yes**	**Yes**	**Mann-W**
BARIUM, TOTAL (UG/L)	**L-UMW-9D**	**-2.417**	**Yes**	**Yes**	**Yes**	**No**	**Mann-W**
BERYLLIUM, TOTAL (UG/L)	L-UMW-1D	-0....	No	No	No	No	Mann-W
BERYLLIUM, TOTAL (UG/L)	L-UMW-2D	-0....	No	No	No	No	Mann-W
BERYLLIUM, TOTAL (UG/L)	L-UMW-3D	-1.784	Yes	No	No	No	Mann-W
BERYLLIUM, TOTAL (UG/L)	L-UMW-4D	-0....	No	No	No	No	Mann-W
BERYLLIUM, TOTAL (UG/L)	L-UMW-5D	-1.776	Yes	No	No	No	Mann-W
BERYLLIUM, TOTAL (UG/L)	L-UMW-6D	-1.776	Yes	No	No	No	Mann-W
BERYLLIUM, TOTAL (UG/L)	L-UMW-7D	-0....	No	No	No	No	Mann-W
BERYLLIUM, TOTAL (UG/L)	L-UMW-8D	-1.399	No	No	No	No	Mann-W
BERYLLIUM, TOTAL (UG/L)	L-UMW-9D	0.1853	No	No	No	No	Mann-W
CADMIUM, TOTAL (UG/L)	**L-UMW-1D**	**2.991**	**Yes**	**Yes**	**Yes**	**Yes**	**Mann-W**
CADMIUM, TOTAL (UG/L)	**L-UMW-2D**	**2.991**	**Yes**	**Yes**	**Yes**	**Yes**	**Mann-W**
CADMIUM, TOTAL (UG/L)	**L-UMW-3D**	**2.705**	**Yes**	**Yes**	**Yes**	**Yes**	**Mann-W**
CADMIUM, TOTAL (UG/L)	**L-UMW-4D**	**3.237**	**Yes**	**Yes**	**Yes**	**Yes**	**Mann-W**
CADMIUM, TOTAL (UG/L)	**L-UMW-5D**	**3.332**	**Yes**	**Yes**	**Yes**	**Yes**	**Mann-W**
CADMIUM, TOTAL (UG/L)	L-UMW-6D	2.2	Yes	Yes	No	No	Mann-W
CADMIUM, TOTAL (UG/L)	L-UMW-7D	2.231	Yes	Yes	No	No	Mann-W
CADMIUM, TOTAL (UG/L)	**L-UMW-8D**	**2.991**	**Yes**	**Yes**	**Yes**	**Yes**	**Mann-W**
CADMIUM, TOTAL (UG/L)	**L-UMW-9D**	**2.991**	**Yes**	**Yes**	**Yes**	**Yes**	**Mann-W**
CHROMIUM, TOTAL (UG/L)	L-UMW-1D	2.287	Yes	Yes	No	No	Mann-W
CHROMIUM, TOTAL (UG/L)	**L-UMW-2D**	**2.479**	**Yes**	**Yes**	**Yes**	**No**	**Mann-W**
CHROMIUM, TOTAL (UG/L)	L-UMW-3D	2.31	Yes	Yes	No	No	Mann-W
CHROMIUM, TOTAL (UG/L)	L-UMW-4D	1.951	Yes	No	No	No	Mann-W
CHROMIUM, TOTAL (UG/L)	L-UMW-5D	1.825	Yes	No	No	No	Mann-W

Welch's t-test/Mann-Whitney

Labadie E.C. Client: Ameren Data: LEC DATA 2 Printed 8/27/2025, 4:25 PM

Constituent	Well	Calc.	0.1	0.05	0.025	0.01	Method
CHROMIUM, TOTAL (UG/L)	L-UMW-6D	0.2707	No	No	No	No	Mann-W
CHROMIUM, TOTAL (UG/L)	L-UMW-7D	0.3484	No	No	No	No	Mann-W
CHROMIUM, TOTAL (UG/L)	L-UMW-8D	1.044	No	No	No	No	Mann-W
CHROMIUM, TOTAL (UG/L)	L-UMW-9D	2.135	Yes	Yes	No	No	Mann-W
COBALT, TOTAL (UG/L)	**L-UMW-1D**	**2.892**	**Yes**	**Yes**	**Yes**	**Yes**	**Mann-W**
COBALT, TOTAL (UG/L)	**L-UMW-2D**	**2.837**	**Yes**	**Yes**	**Yes**	**Yes**	**Mann-W**
COBALT, TOTAL (UG/L)	**L-UMW-3D**	**2.878**	**Yes**	**Yes**	**Yes**	**Yes**	**Mann-W**
COBALT, TOTAL (UG/L)	**L-UMW-4D**	**2.837**	**Yes**	**Yes**	**Yes**	**Yes**	**Mann-W**
COBALT, TOTAL (UG/L)	**L-UMW-5D**	**2.837**	**Yes**	**Yes**	**Yes**	**Yes**	**Mann-W**
COBALT, TOTAL (UG/L)	**L-UMW-6D**	**2.837**	**Yes**	**Yes**	**Yes**	**Yes**	**Mann-W**
COBALT, TOTAL (UG/L)	**L-UMW-7D**	**2.877**	**Yes**	**Yes**	**Yes**	**Yes**	**Mann-W**
COBALT, TOTAL (UG/L)	L-UMW-8D	2.025	Yes	Yes	No	No	Mann-W
COBALT, TOTAL (UG/L)	**L-UMW-9D**	**2.691**	**Yes**	**Yes**	**Yes**	**Yes**	**Mann-W**
FLUORIDE, TOTAL (MG/L)	L-UMW-1D	-0....	No	No	No	No	Mann-W
FLUORIDE, TOTAL (MG/L)	**L-UMW-2D**	**-3.463**	**Yes**	**Yes**	**Yes**	**Yes**	**Mann-W**
FLUORIDE, TOTAL (MG/L)	L-UMW-3D	-1.317	No	No	No	No	Mann-W
FLUORIDE, TOTAL (MG/L)	**L-UMW-4D**	**-2.369**	**Yes**	**Yes**	**Yes**	**No**	**Mann-W**
FLUORIDE, TOTAL (MG/L)	L-UMW-5D	-2.07	Yes	Yes	No	No	Mann-W
FLUORIDE, TOTAL (MG/L)	**L-UMW-6D**	**-2.838**	**Yes**	**Yes**	**Yes**	**Yes**	**Mann-W**
FLUORIDE, TOTAL (MG/L)	**L-UMW-7D**	**-2.581**	**Yes**	**Yes**	**Yes**	**Yes**	**Mann-W**
FLUORIDE, TOTAL (MG/L)	L-UMW-8D	0.6439	No	No	No	No	Mann-W
FLUORIDE, TOTAL (MG/L)	L-UMW-9D	-0....	No	No	No	No	Mann-W
LEAD, TOTAL (UG/L)	L-UMW-1D	0.4637	No	No	No	No	Mann-W
LEAD, TOTAL (UG/L)	L-UMW-2D	1.851	Yes	No	No	No	Mann-W
LEAD, TOTAL (UG/L)	L-UMW-3D	2.023	Yes	Yes	No	No	Mann-W
LEAD, TOTAL (UG/L)	**L-UMW-4D**	**2.916**	**Yes**	**Yes**	**Yes**	**Yes**	**Mann-W**
LEAD, TOTAL (UG/L)	L-UMW-5D	1.578	No	No	No	No	Mann-W
LEAD, TOTAL (UG/L)	L-UMW-6D	1.578	No	No	No	No	Mann-W
LEAD, TOTAL (UG/L)	L-UMW-7D	1.805	Yes	No	No	No	Mann-W
LEAD, TOTAL (UG/L)	L-UMW-8D	1.85	Yes	No	No	No	Mann-W
LEAD, TOTAL (UG/L)	L-UMW-9D	-0....	No	No	No	No	Mann-W
LITHIUM, TOTAL (UG/L)	**L-UMW-1D**	**2.626**	**Yes**	**Yes**	**Yes**	**Yes**	**Mann-W**
LITHIUM, TOTAL (UG/L)	**L-UMW-2D**	**2.743**	**Yes**	**Yes**	**Yes**	**Yes**	**Mann-W**
LITHIUM, TOTAL (UG/L)	L-UMW-3D	-0....	No	No	No	No	Mann-W
LITHIUM, TOTAL (UG/L)	**L-UMW-4D**	**-2.447**	**Yes**	**Yes**	**Yes**	**No**	**Mann-W**
LITHIUM, TOTAL (UG/L)	L-UMW-5D	0.8348	No	No	No	No	Mann-W
LITHIUM, TOTAL (UG/L)	L-UMW-6D	1.968	Yes	Yes	No	No	Mann-W
LITHIUM, TOTAL (UG/L)	L-UMW-7D	2.296	Yes	Yes	No	No	Mann-W
LITHIUM, TOTAL (UG/L)	**L-UMW-8D**	**-3.072**	**Yes**	**Yes**	**Yes**	**Yes**	**Mann-W**
LITHIUM, TOTAL (UG/L)	L-UMW-9D	1.671	Yes	No	No	No	Mann-W
MERCURY, TOTAL (UG/L)	**L-UMW-1D**	**3.551**	**Yes**	**Yes**	**Yes**	**Yes**	**Mann-W**
MERCURY, TOTAL (UG/L)	**L-UMW-2D**	**3.551**	**Yes**	**Yes**	**Yes**	**Yes**	**Mann-W**
MERCURY, TOTAL (UG/L)	**L-UMW-3D**	**3.604**	**Yes**	**Yes**	**Yes**	**Yes**	**Mann-W**
MERCURY, TOTAL (UG/L)	**L-UMW-4D**	**3.551**	**Yes**	**Yes**	**Yes**	**Yes**	**Mann-W**
MERCURY, TOTAL (UG/L)	**L-UMW-5D**	**3.551**	**Yes**	**Yes**	**Yes**	**Yes**	**Mann-W**
MERCURY, TOTAL (UG/L)	**L-UMW-6D**	**3.551**	**Yes**	**Yes**	**Yes**	**Yes**	**Mann-W**
MERCURY, TOTAL (UG/L)	**L-UMW-7D**	**3.522**	**Yes**	**Yes**	**Yes**	**Yes**	**Mann-W**
MERCURY, TOTAL (UG/L)	**L-UMW-8D**	**3.551**	**Yes**	**Yes**	**Yes**	**Yes**	**Mann-W**
MERCURY, TOTAL (UG/L)	**L-UMW-9D**	**3.551**	**Yes**	**Yes**	**Yes**	**Yes**	**Mann-W**
MOLYBDENUM, TOTAL (UG/L)	L-UMW-1D	2.03	Yes	Yes	No	No	Mann-W

Welch's t-test/Mann-Whitney

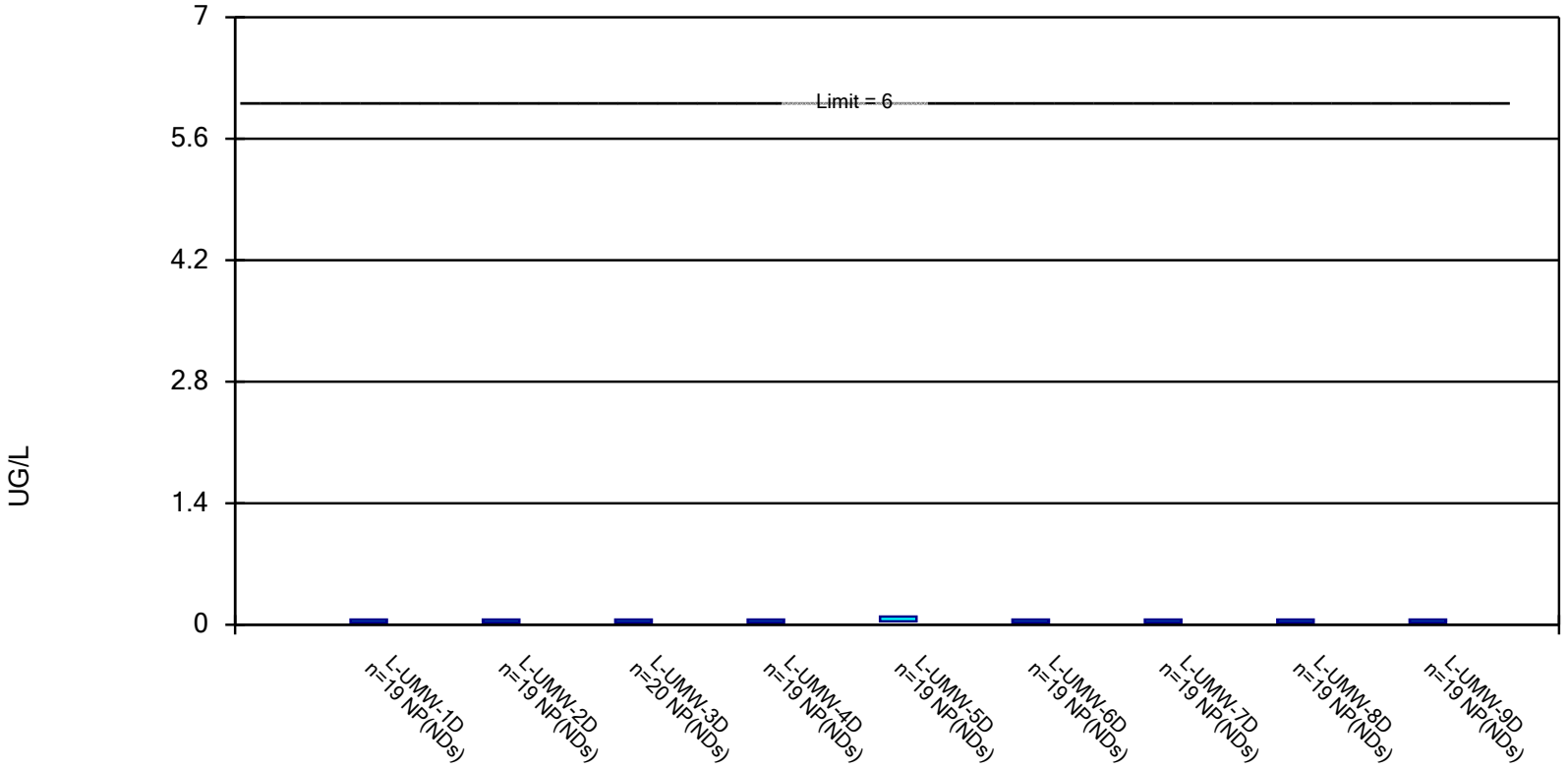
Labadie E.C. Client: Ameren Data: LEC DATA 2 Printed 8/27/2025, 4:25 PM

Constituent	Well	Calc.	0.1	0.05	0.025	0.01	Method
MOLYBDENUM, TOTAL (UG/L)	**L-UMW-2D**	**-3.816**	**Yes**	**Yes**	**Yes**	**Yes**	**Mann-W**
MOLYBDENUM, TOTAL (UG/L)	L-UMW-3D	2.067	Yes	Yes	No	No	Mann-W
MOLYBDENUM, TOTAL (UG/L)	**L-UMW-4D**	**2.803**	**Yes**	**Yes**	**Yes**	**Yes**	**Mann-W**
MOLYBDENUM, TOTAL (UG/L)	**L-UMW-5D**	**4.022**	**Yes**	**Yes**	**Yes**	**Yes**	**Mann-W**
MOLYBDENUM, TOTAL (UG/L)	**L-UMW-6D**	**-2.535**	**Yes**	**Yes**	**Yes**	**No**	**Mann-W**
MOLYBDENUM, TOTAL (UG/L)	**L-UMW-7D**	**-3.758**	**Yes**	**Yes**	**Yes**	**Yes**	**Mann-W**
MOLYBDENUM, TOTAL (UG/L)	L-UMW-8D	1.093	No	No	No	No	Mann-W
MOLYBDENUM, TOTAL (UG/L)	L-UMW-9D	-0....	No	No	No	No	Mann-W
Radium [226 + 228] (PCI/L)	L-UMW-1D	-0....	No	No	No	No	Mann-W
Radium [226 + 228] (PCI/L)	L-UMW-2D	0.2981	No	No	No	No	Mann-W
Radium [226 + 228] (PCI/L)	L-UMW-3D	0.2265	No	No	No	No	Mann-W
Radium [226 + 228] (PCI/L)	L-UMW-4D	1.729	Yes	No	No	No	Mann-W
Radium [226 + 228] (PCI/L)	L-UMW-5D	0.8069	No	No	No	No	Mann-W
Radium [226 + 228] (PCI/L)	L-UMW-6D	-0....	No	No	No	No	Mann-W
Radium [226 + 228] (PCI/L)	L-UMW-7D	1.729	Yes	No	No	No	Mann-W
Radium [226 + 228] (PCI/L)	**L-UMW-8D**	**-2.683**	**Yes**	**Yes**	**Yes**	**Yes**	**Mann-W**
Radium [226 + 228] (PCI/L)	L-UMW-9D	0.1789	No	No	No	No	Mann-W
SELENIUM, TOTAL (UG/L)	L-UMW-1D	0.8834	No	No	No	No	Mann-W
SELENIUM, TOTAL (UG/L)	L-UMW-2D	0.8834	No	No	No	No	Mann-W
SELENIUM, TOTAL (UG/L)	L-UMW-3D	0.8568	No	No	No	No	Mann-W
SELENIUM, TOTAL (UG/L)	L-UMW-4D	2.049	Yes	Yes	No	No	Mann-W
SELENIUM, TOTAL (UG/L)	L-UMW-5D	1.098	No	No	No	No	Mann-W
SELENIUM, TOTAL (UG/L)	L-UMW-6D	-1.815	Yes	No	No	No	Mann-W
SELENIUM, TOTAL (UG/L)	L-UMW-7D	0.8816	No	No	No	No	Mann-W
SELENIUM, TOTAL (UG/L)	L-UMW-8D	1.815	Yes	No	No	No	Mann-W
SELENIUM, TOTAL (UG/L)	L-UMW-9D	1.819	Yes	No	No	No	Mann-W
THALLIUM, TOTAL (UG/L)	L-UMW-1D	-1.026	No	No	No	No	Mann-W
THALLIUM, TOTAL (UG/L)	L-UMW-2D	-0....	No	No	No	No	Mann-W
THALLIUM, TOTAL (UG/L)	L-UMW-3D	-0....	No	No	No	No	Mann-W
THALLIUM, TOTAL (UG/L)	L-UMW-4D	-0....	No	No	No	No	Mann-W
THALLIUM, TOTAL (UG/L)	L-UMW-5D	-0....	No	No	No	No	Mann-W
THALLIUM, TOTAL (UG/L)	L-UMW-6D	-1.12	No	No	No	No	Mann-W
THALLIUM, TOTAL (UG/L)	L-UMW-7D	-0....	No	No	No	No	Mann-W
THALLIUM, TOTAL (UG/L)	L-UMW-8D	-0....	No	No	No	No	Mann-W
THALLIUM, TOTAL (UG/L)	L-UMW-9D	-0....	No	No	No	No	Mann-W

Appendix B
Sanitas Confidence Interval Statistical Output

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



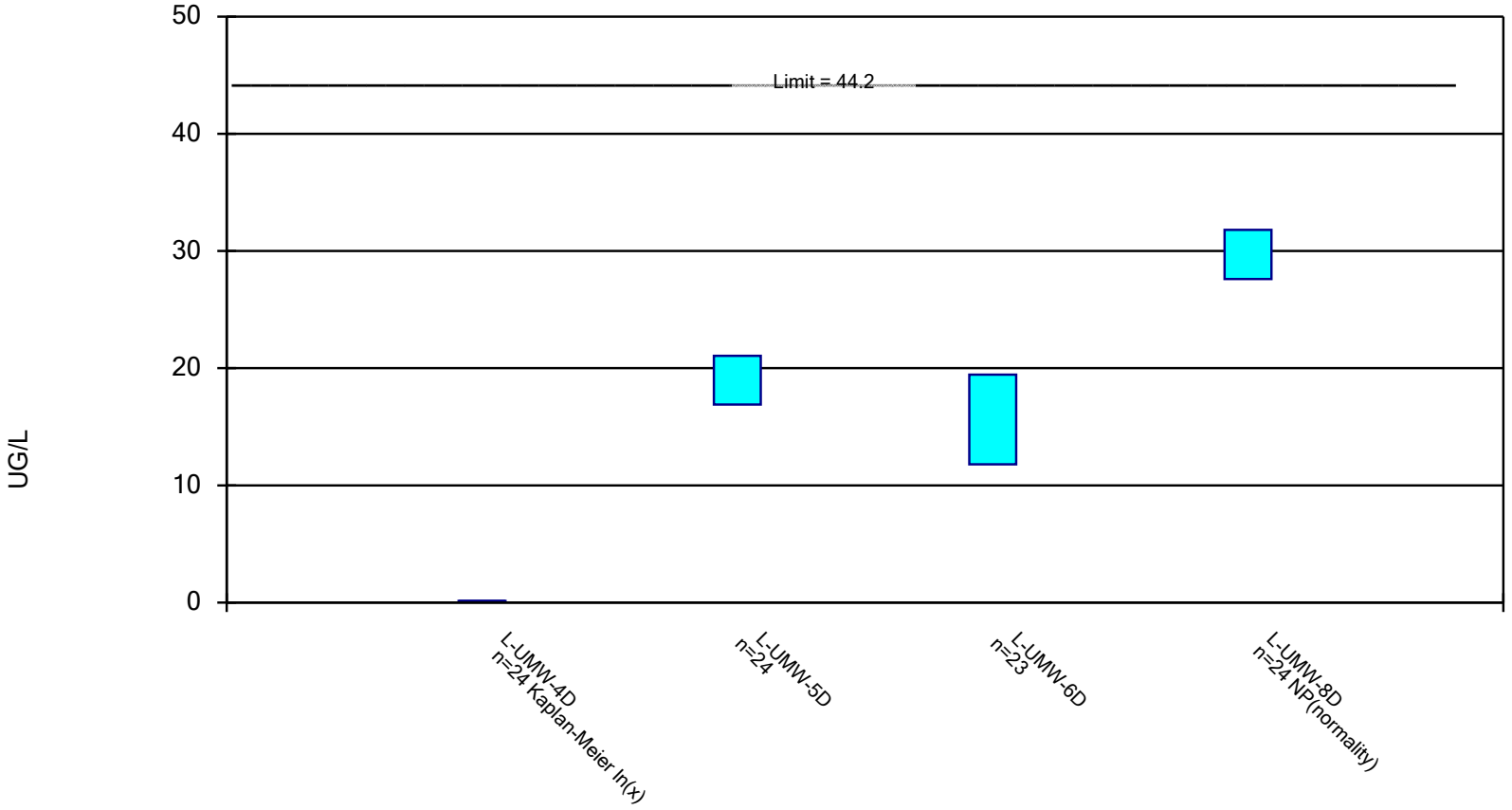
Constituent: ANTIMONY, TOTAL Analysis Run 8/28/2025 12:11 PM View: SSL All Data

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG

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.



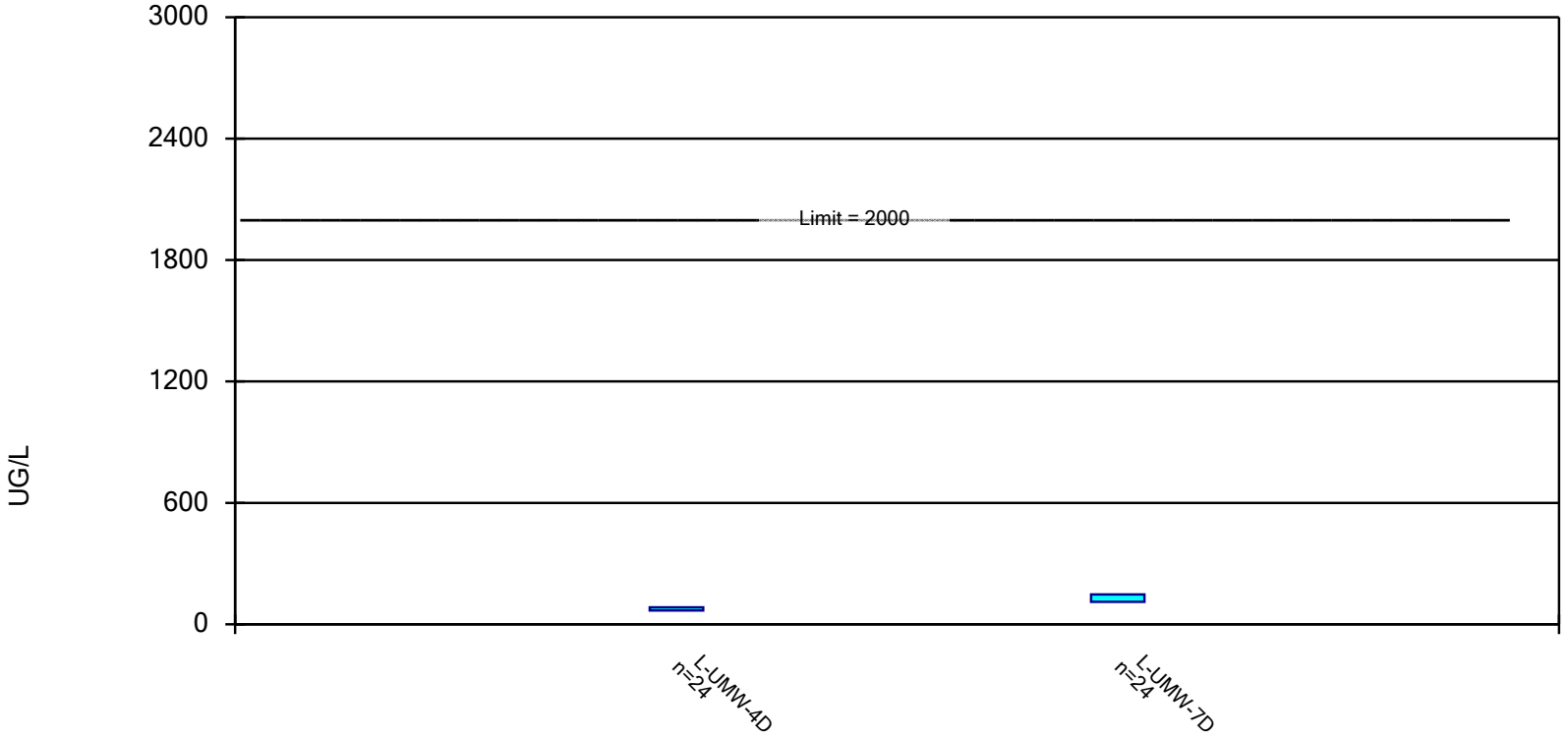
Constituent: ARSENIC, TOTAL Analysis Run 8/28/2025 12:11 PM View: SSL All Data

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



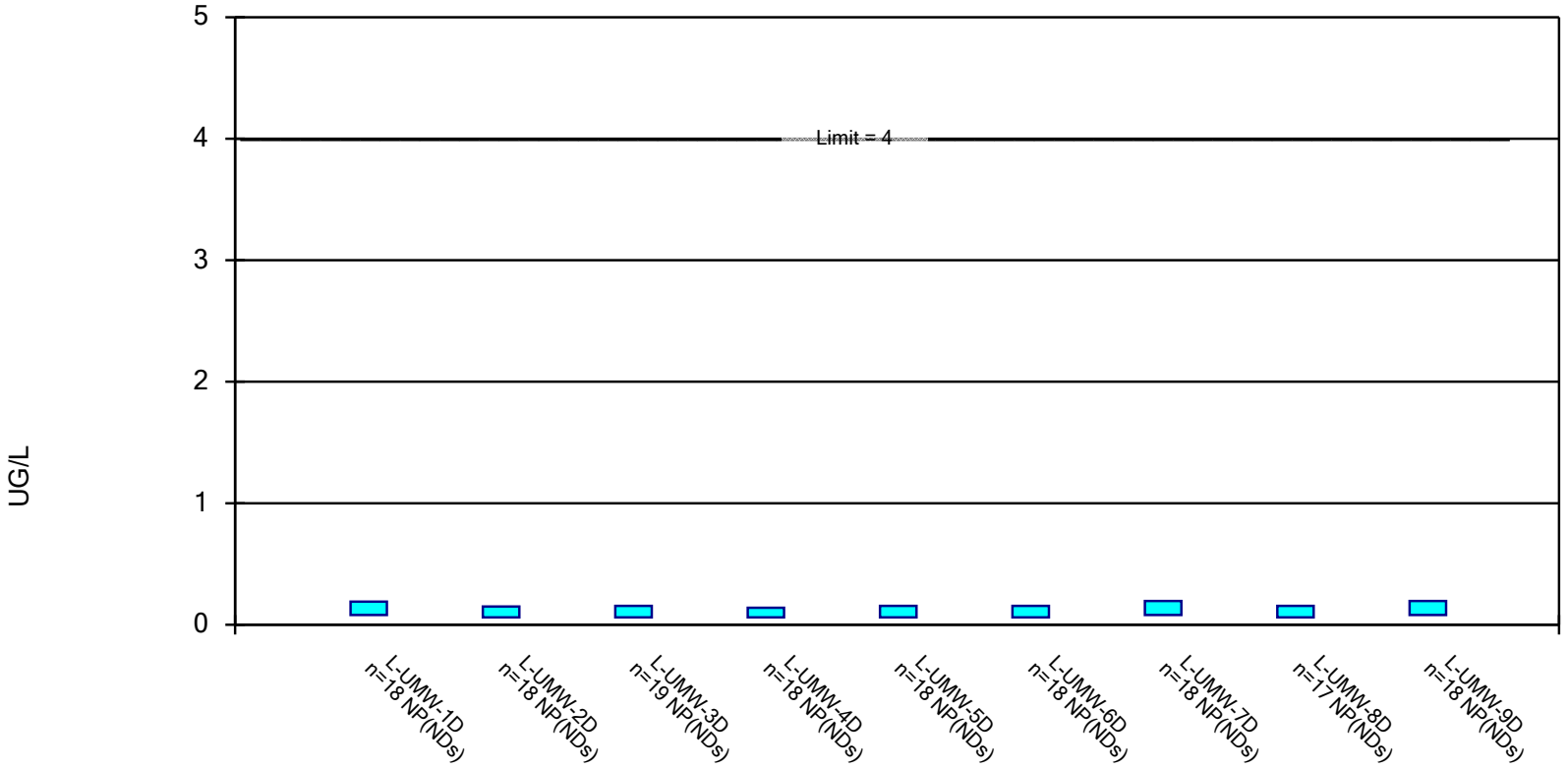
Constituent: BARIUM, TOTAL Analysis Run 8/28/2025 12:11 PM View: SSL All Data

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



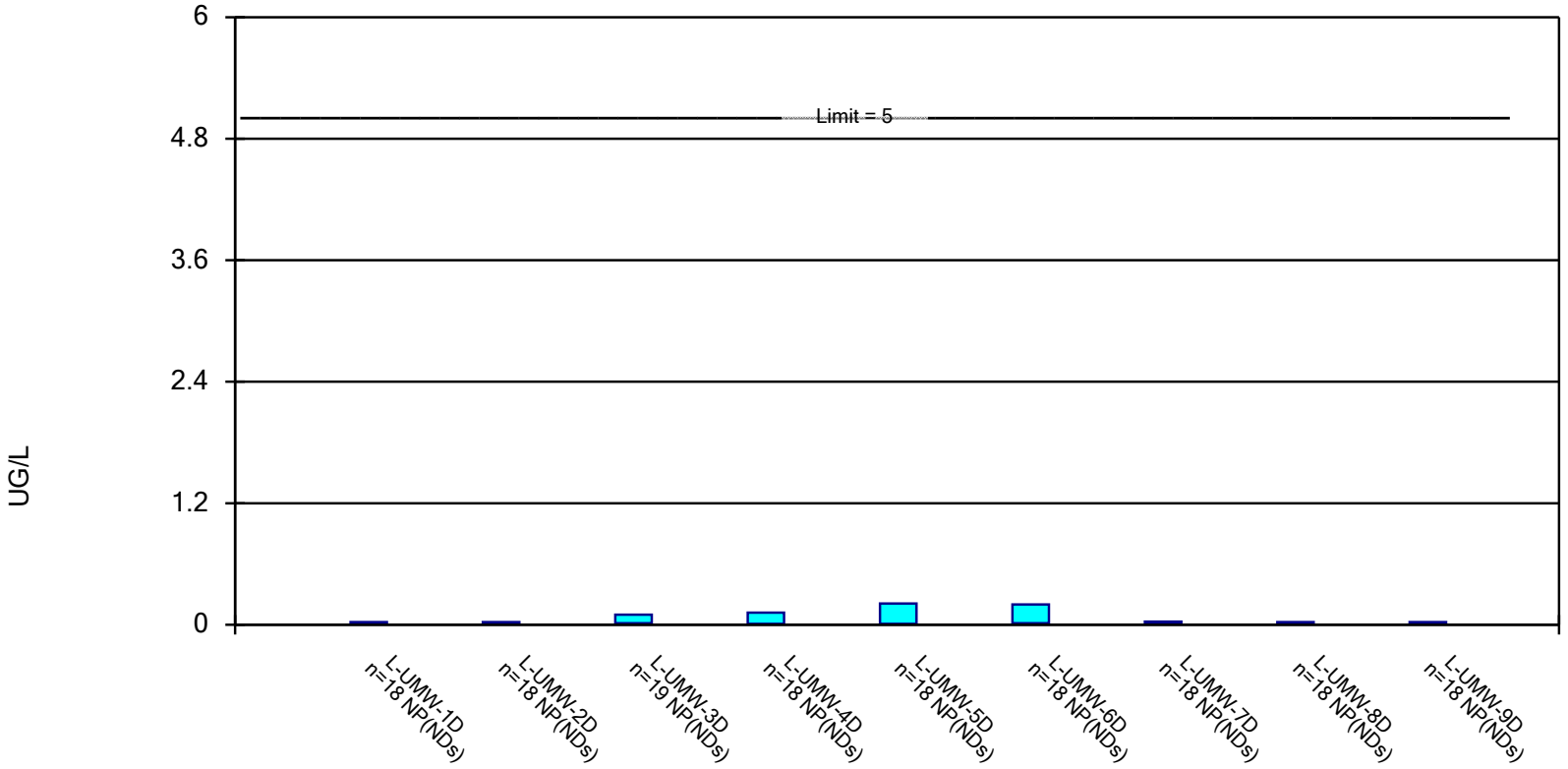
Constituent: BERYLLIUM, TOTAL Analysis Run 8/28/2025 12:11 PM View: SSL All Data

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

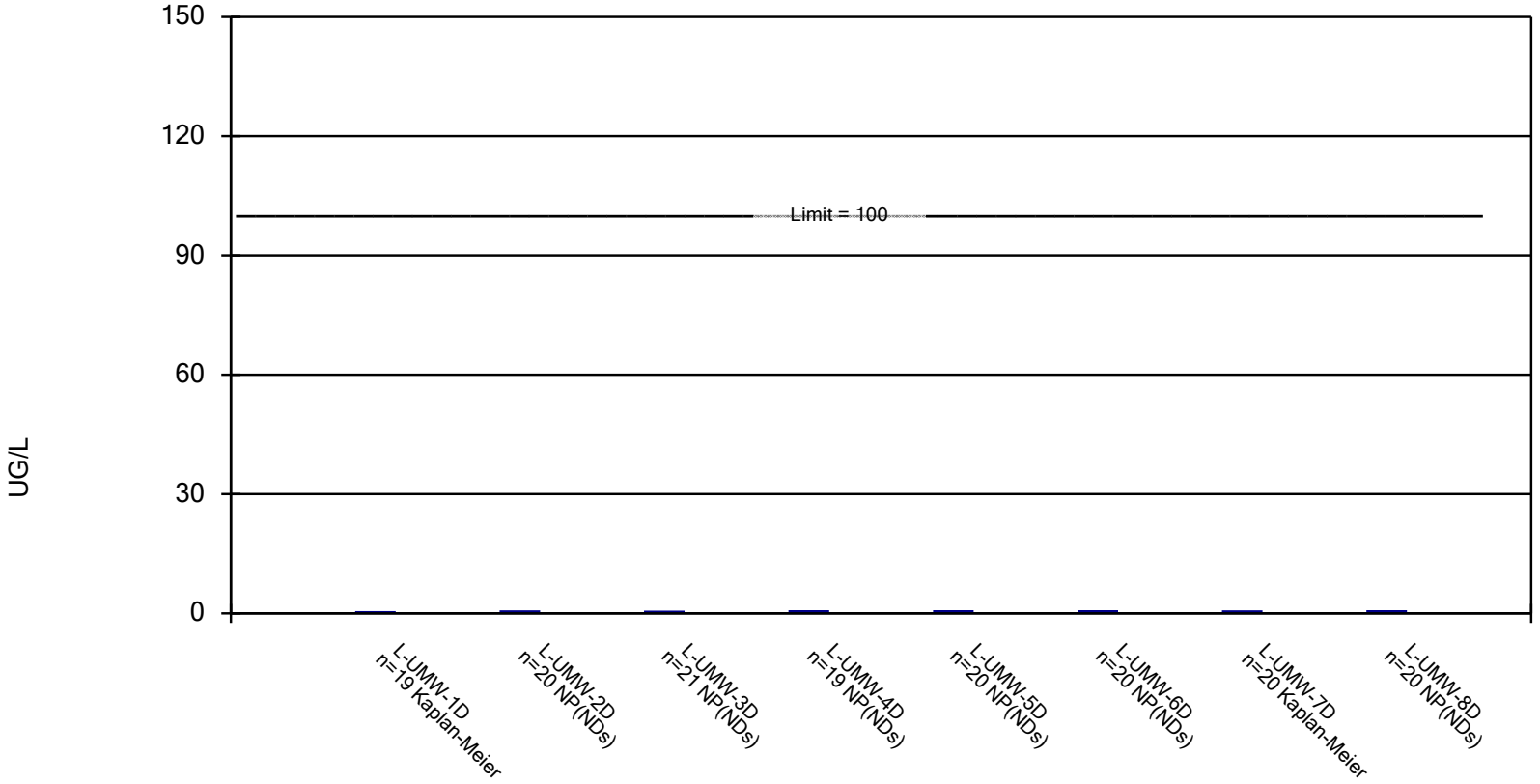


Constituent: CADMIUM, TOTAL Analysis Run 8/28/2025 12:12 PM View: SSL All Data

Labadie E.C. Client: Ameren Data: LEC DATA 2

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.



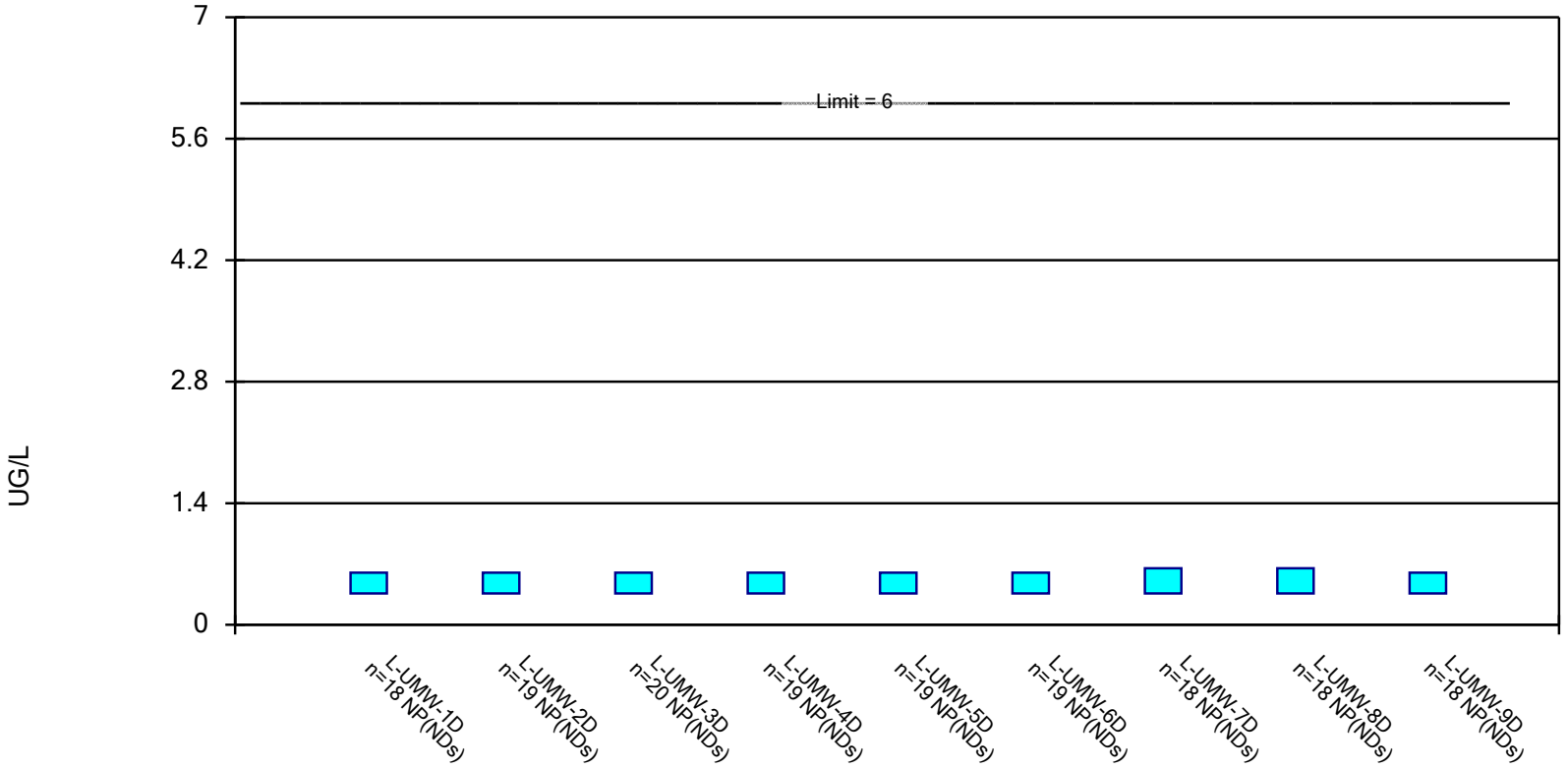
Constituent: CHROMIUM, TOTAL Analysis Run 8/28/2025 12:12 PM View: SSL All Data

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



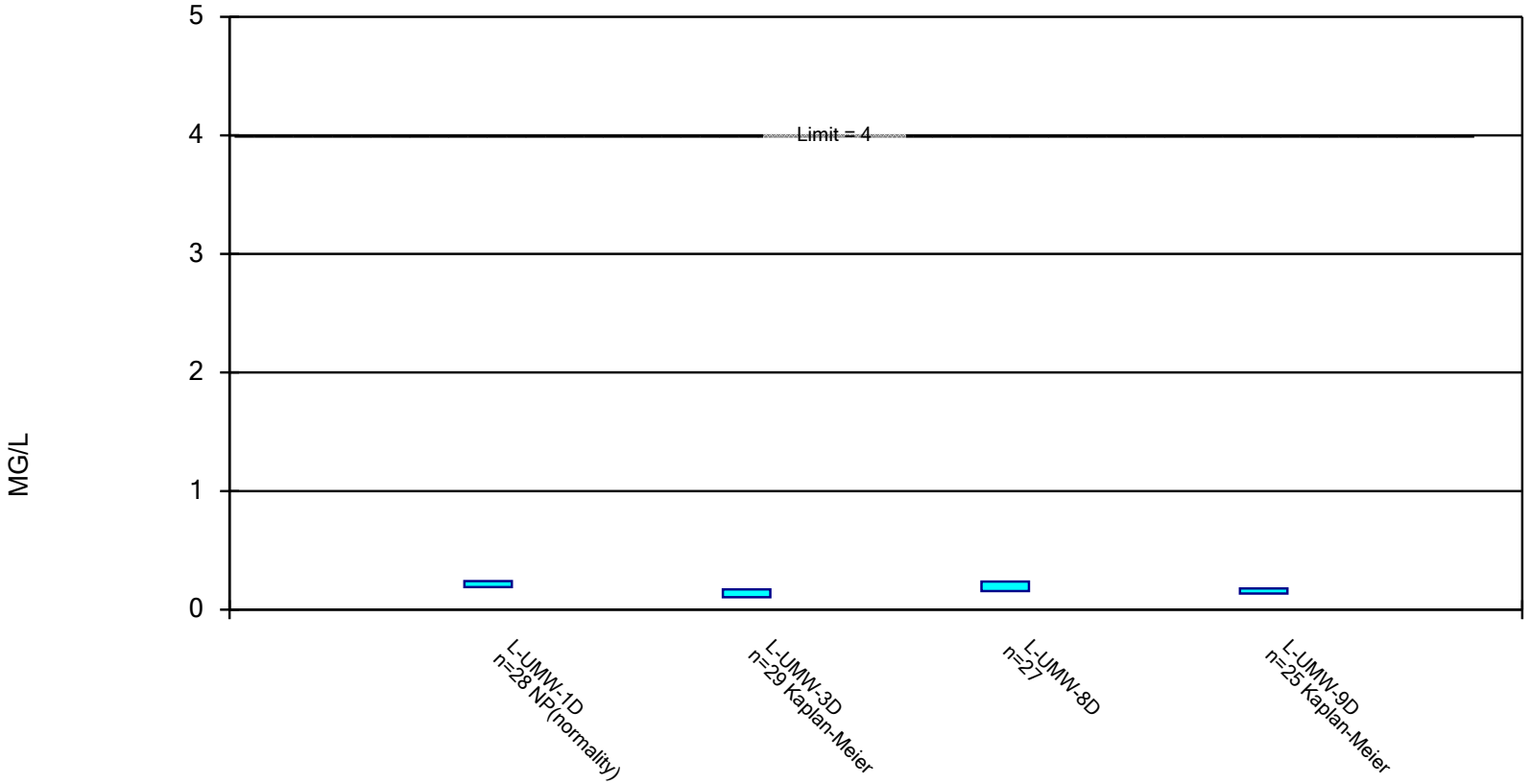
Constituent: COBALT, TOTAL Analysis Run 8/28/2025 12:12 PM View: SSL All Data

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG

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.



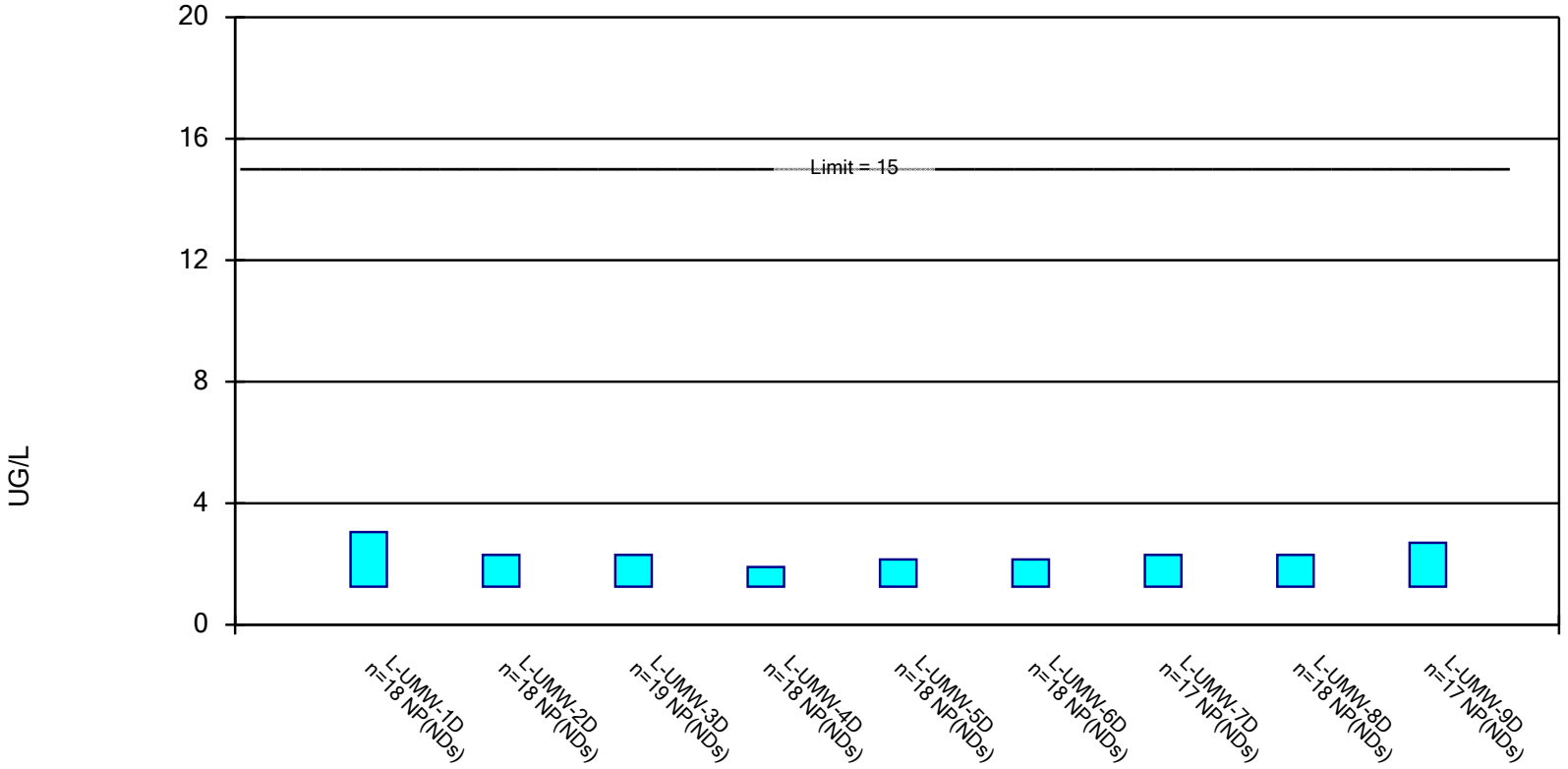
Constituent: FLUORIDE, TOTAL Analysis Run 8/28/2025 12:12 PM View: SSL All Data

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



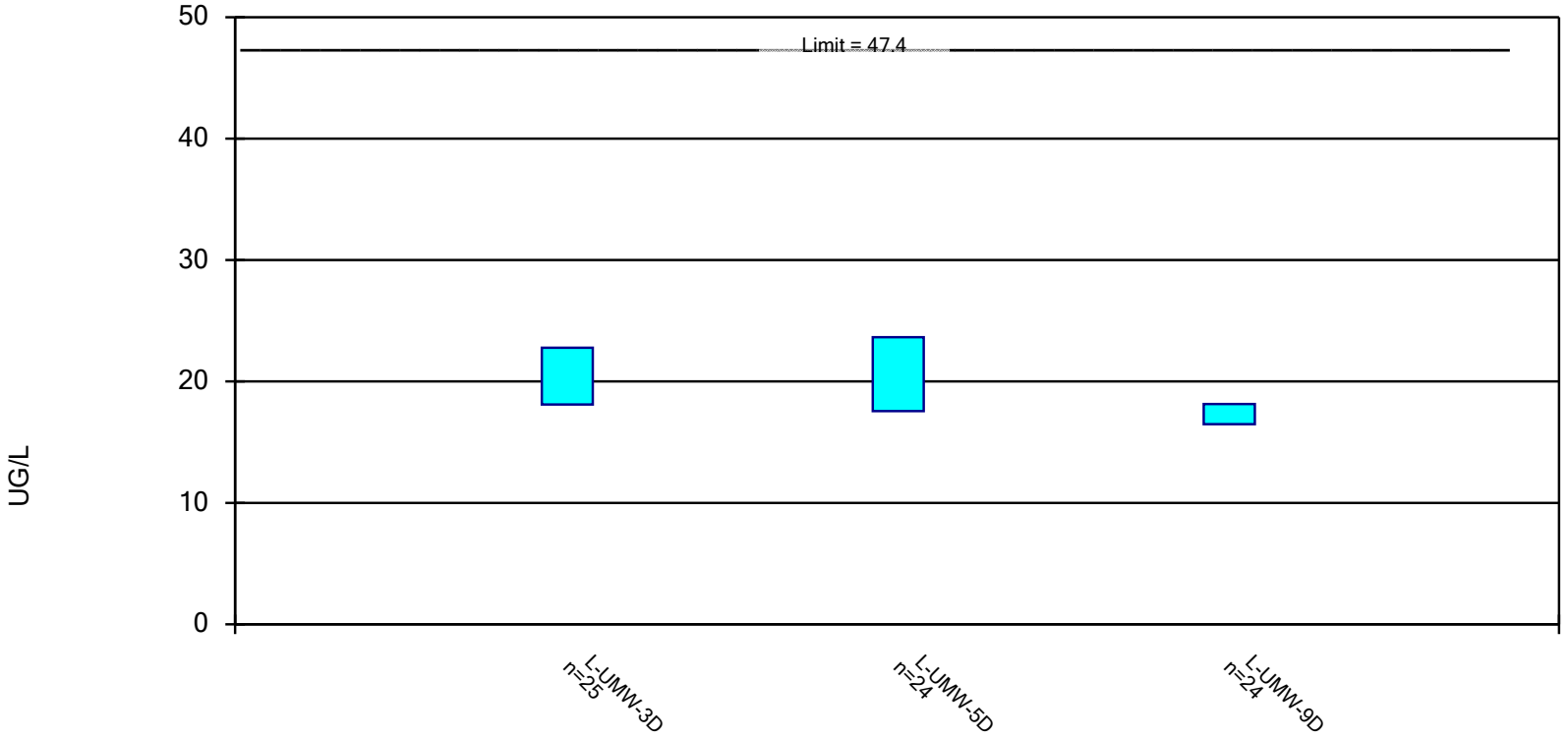
Constituent: LEAD, TOTAL Analysis Run 8/28/2025 12:12 PM View: SSL All Data

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



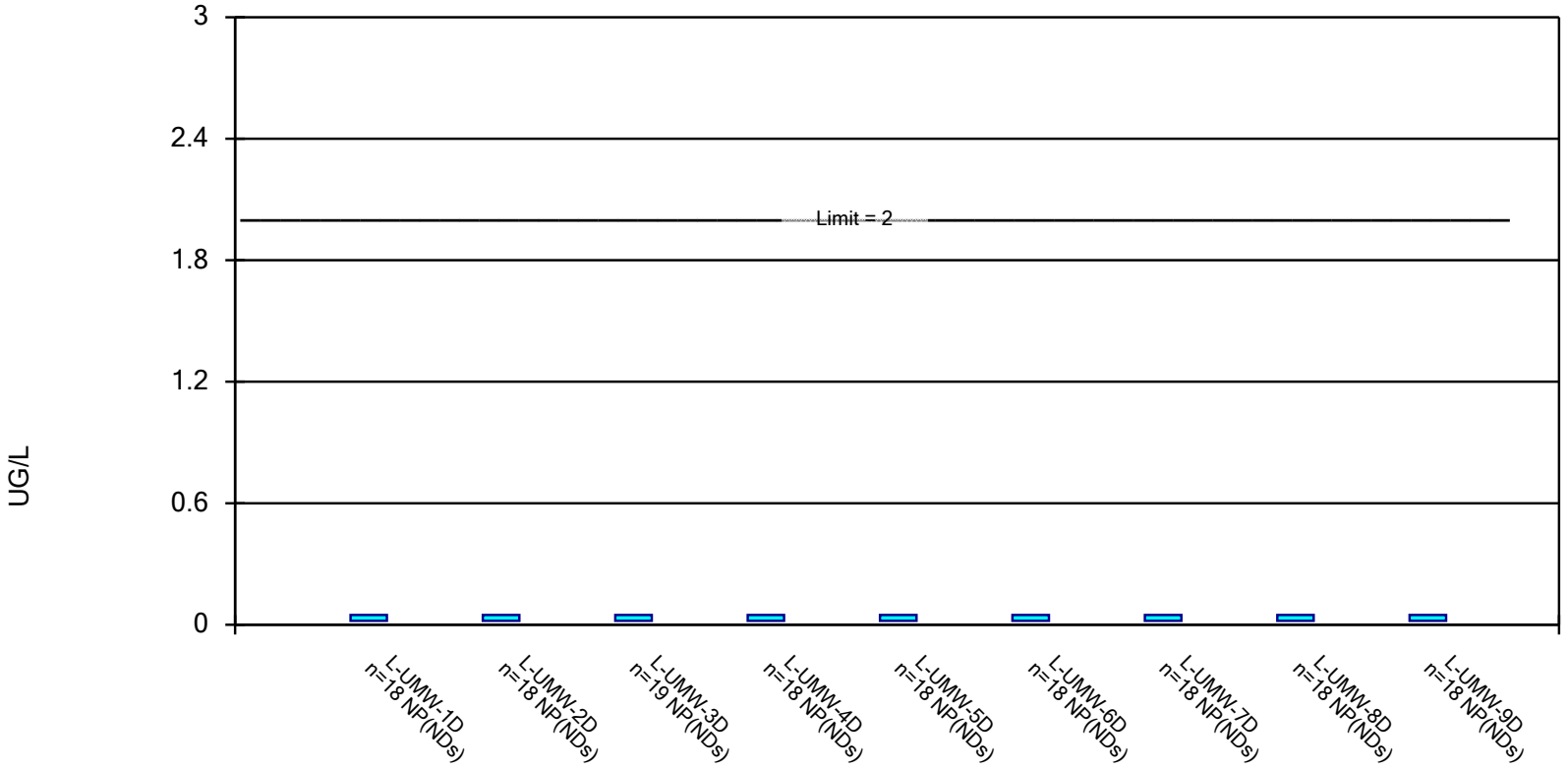
Constituent: LITHIUM, TOTAL Analysis Run 8/28/2025 12:12 PM View: SSL All Data

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



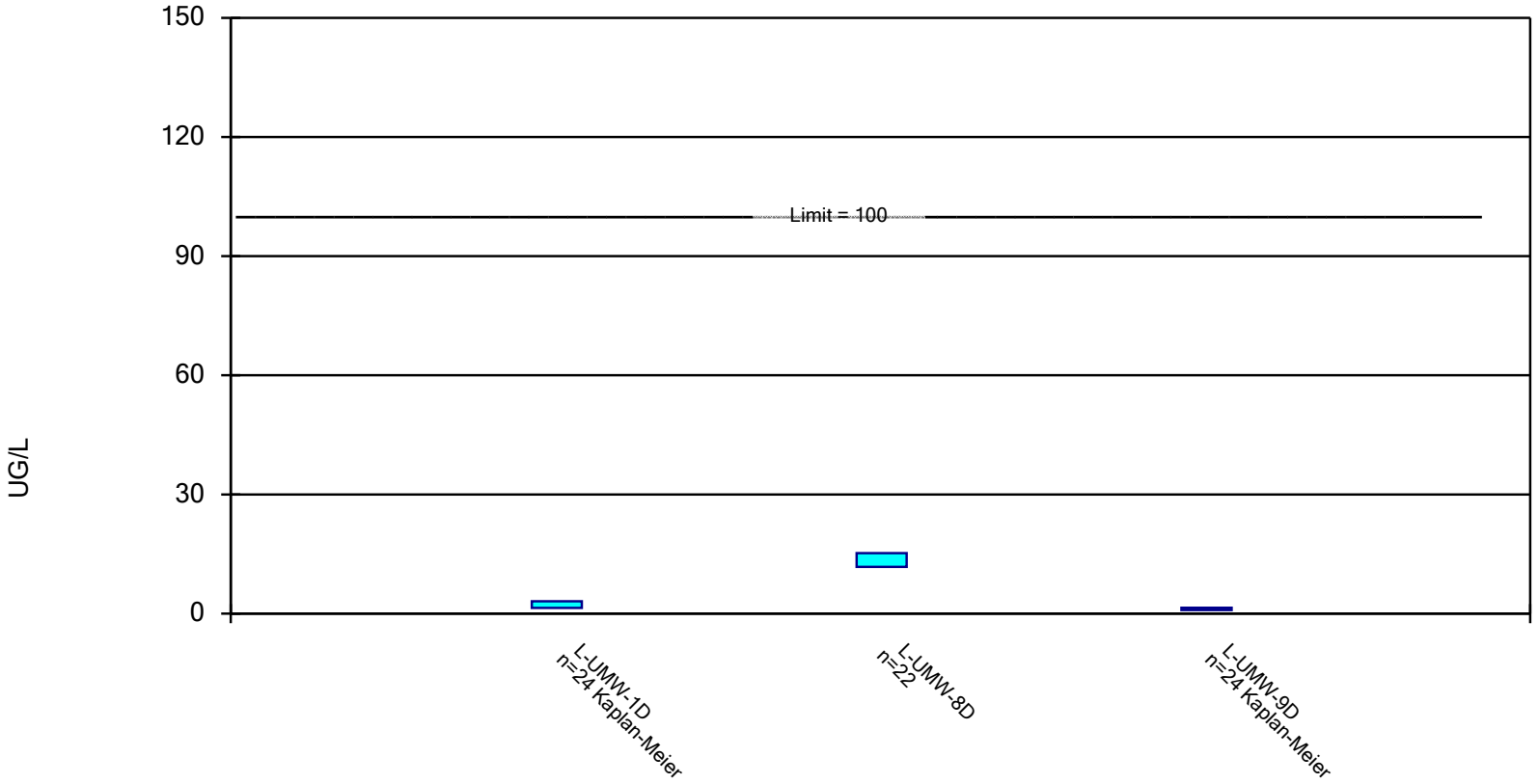
Constituent: MERCURY, TOTAL Analysis Run 8/28/2025 12:12 PM View: SSL All Data

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



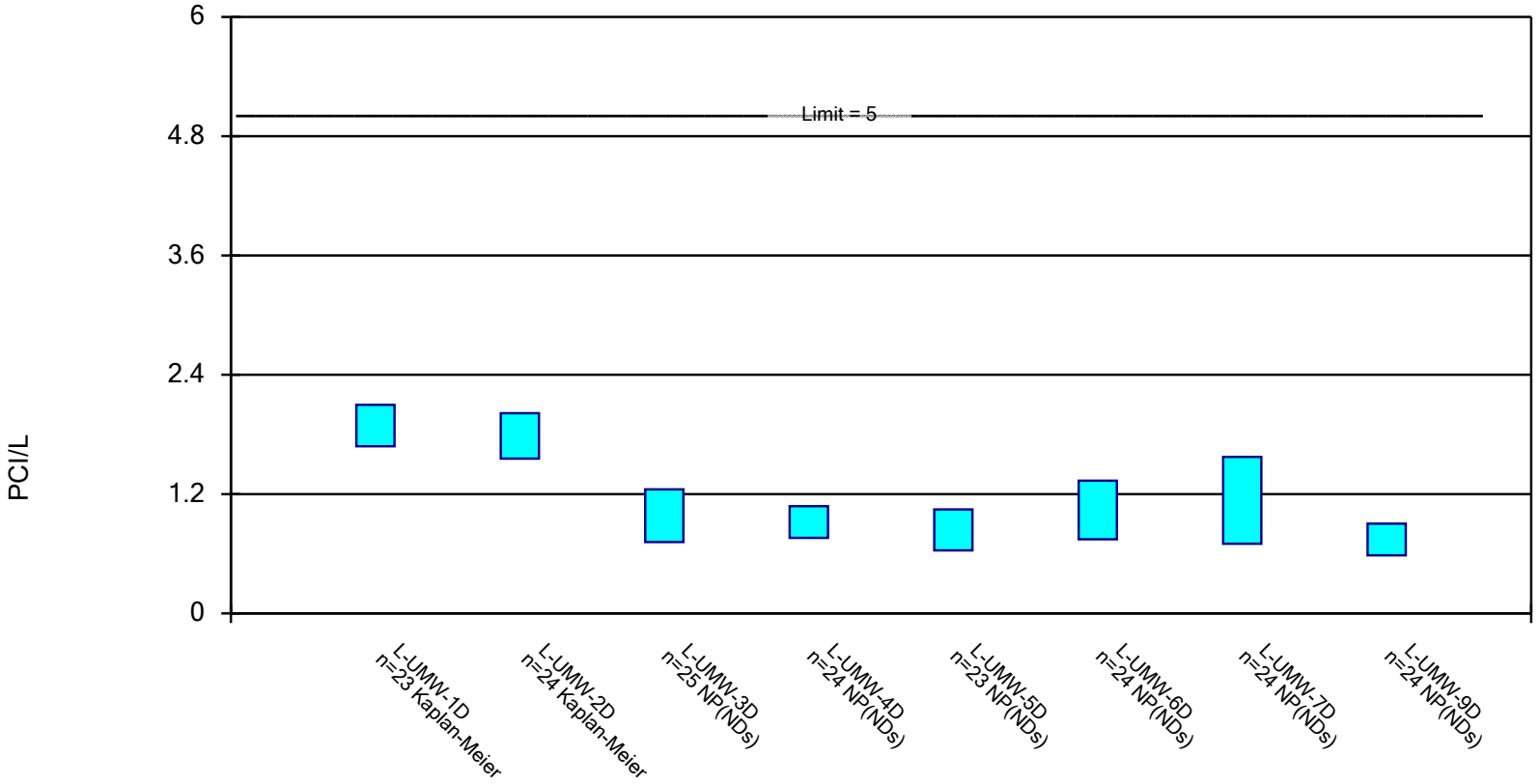
Constituent: MOLYBDENUM, TOTAL Analysis Run 8/28/2025 12:12 PM View: SSL All Data

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG

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.



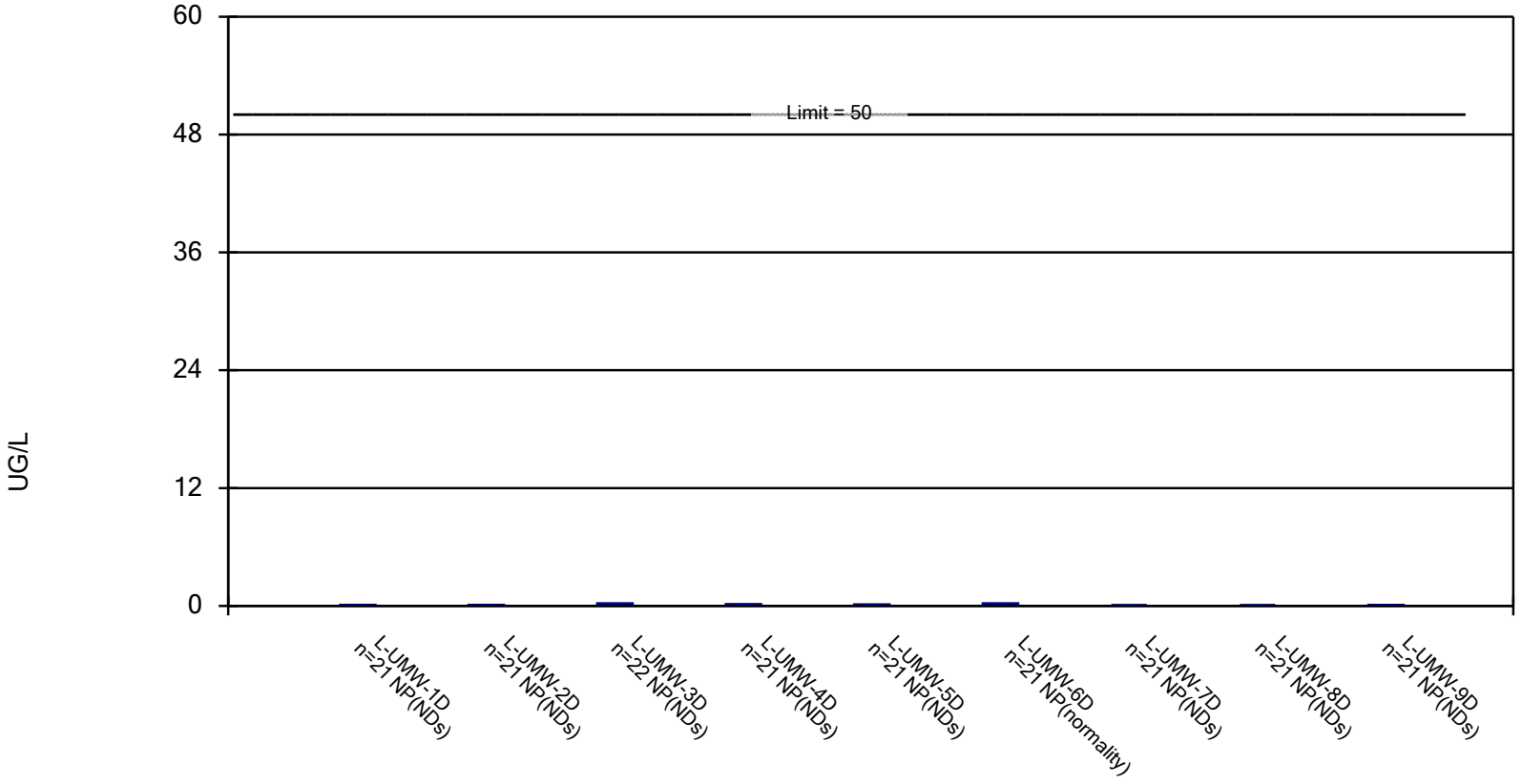
Constituent: Radium [226 + 228] Analysis Run 8/28/2025 12:12 PM View: SSL All Data

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



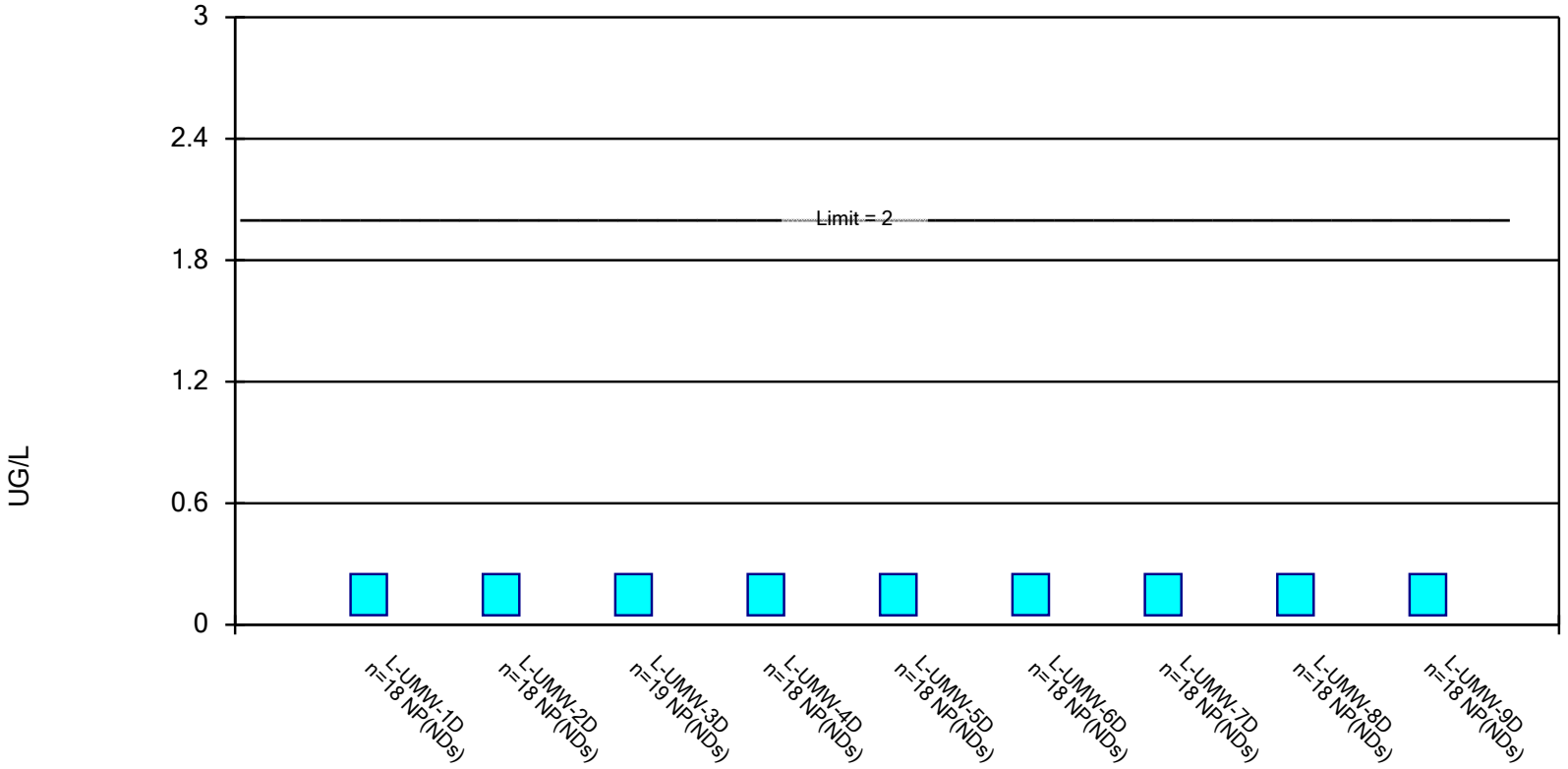
Constituent: SELENIUM, TOTAL Analysis Run 8/28/2025 12:12 PM View: SSL All Data

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: THALLIUM, TOTAL Analysis Run 8/28/2025 12:12 PM View: SSL All Data

Labadie E.C. Client: Ameren Data: LEC DATA 2

Confidence Interval

Labadie E.C. Client: Ameren Data: LEC DATA 2 Printed 8/28/2025, 12:14 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
ANTIMONY, TOTAL (UG/L)	L-UMW-1D	0.06	0.029	6	No	19	89.47	No	0.01	NP (NDs)
ANTIMONY, TOTAL (UG/L)	L-UMW-2D	0.06	0.029	6	No	19	100	No	0.01	NP (NDs)
ANTIMONY, TOTAL (UG/L)	L-UMW-3D	0.06	0.029	6	No	20	90	No	0.01	NP (NDs)
ANTIMONY, TOTAL (UG/L)	L-UMW-4D	0.06	0.029	6	No	19	94.74	No	0.01	NP (NDs)
ANTIMONY, TOTAL (UG/L)	L-UMW-5D	0.094	0.039	6	No	19	68.42	No	0.01	NP (NDs)
ANTIMONY, TOTAL (UG/L)	L-UMW-6D	0.06	0.029	6	No	19	94.74	No	0.01	NP (NDs)
ANTIMONY, TOTAL (UG/L)	L-UMW-7D	0.06	0.029	6	No	19	100	No	0.01	NP (NDs)
ANTIMONY, TOTAL (UG/L)	L-UMW-8D	0.06	0.029	6	No	19	100	No	0.01	NP (NDs)
ANTIMONY, TOTAL (UG/L)	L-UMW-9D	0.06	0.029	6	No	19	94.74	No	0.01	NP (NDs)
ARSENIC, TOTAL (UG/L)	L-UMW-4D	0.1359	0.09871	44.2	No	24	37.5	ln(x)	0.01	Param.
ARSENIC, TOTAL (UG/L)	L-UMW-5D	21.06	16.9	44.2	No	24	0	No	0.01	Param.
ARSENIC, TOTAL (UG/L)	L-UMW-6D	19.45	11.8	44.2	No	23	0	No	0.01	Param.
ARSENIC, TOTAL (UG/L)	L-UMW-8D	31.8	27.6	44.2	No	24	0	No	0.01	NP (normality)
BARIUM, TOTAL (UG/L)	L-UMW-4D	83.63	68.11	2000	No	24	0	No	0.01	Param.
BARIUM, TOTAL (UG/L)	L-UMW-7D	147.5	110.7	2000	No	24	0	No	0.01	Param.
BERYLLIUM, TOTAL (UG/L)	L-UMW-1D	0.19	0.08	4	No	18	88.89	No	0.01	NP (NDs)
BERYLLIUM, TOTAL (UG/L)	L-UMW-2D	0.15	0.06	4	No	18	94.44	No	0.01	NP (NDs)
BERYLLIUM, TOTAL (UG/L)	L-UMW-3D	0.155	0.06	4	No	19	100	No	0.01	NP (NDs)
BERYLLIUM, TOTAL (UG/L)	L-UMW-4D	0.14	0.06	4	No	18	94.44	No	0.01	NP (NDs)
BERYLLIUM, TOTAL (UG/L)	L-UMW-5D	0.155	0.06	4	No	18	100	No	0.01	NP (NDs)
BERYLLIUM, TOTAL (UG/L)	L-UMW-6D	0.155	0.06	4	No	18	100	No	0.01	NP (NDs)
BERYLLIUM, TOTAL (UG/L)	L-UMW-7D	0.195	0.08	4	No	18	83.33	No	0.01	NP (NDs)
BERYLLIUM, TOTAL (UG/L)	L-UMW-8D	0.155	0.06	4	No	17	100	No	0.01	NP (NDs)
BERYLLIUM, TOTAL (UG/L)	L-UMW-9D	0.195	0.08	4	No	18	88.89	No	0.01	NP (NDs)
CADMIUM, TOTAL (UG/L)	L-UMW-1D	0.0265	0.009	5	No	18	100	No	0.01	NP (NDs)
CADMIUM, TOTAL (UG/L)	L-UMW-2D	0.0265	0.009	5	No	18	100	No	0.01	NP (NDs)
CADMIUM, TOTAL (UG/L)	L-UMW-3D	0.099	0.0145	5	No	19	52.63	No	0.01	NP (NDs)
CADMIUM, TOTAL (UG/L)	L-UMW-4D	0.12	0.009	5	No	18	72.22	No	0.01	NP (NDs)
CADMIUM, TOTAL (UG/L)	L-UMW-5D	0.21	0.009	5	No	18	66.67	No	0.01	NP (NDs)
CADMIUM, TOTAL (UG/L)	L-UMW-6D	0.2	0.0145	5	No	18	55.56	No	0.01	NP (NDs)
CADMIUM, TOTAL (UG/L)	L-UMW-7D	0.031	0.009	5	No	18	83.33	No	0.01	NP (NDs)
CADMIUM, TOTAL (UG/L)	L-UMW-8D	0.0265	0.009	5	No	18	100	No	0.01	NP (NDs)
CADMIUM, TOTAL (UG/L)	L-UMW-9D	0.0265	0.009	5	No	18	100	No	0.01	NP (NDs)
CHROMIUM, TOTAL (UG/L)	L-UMW-1D	0.2572	0.1102	100	No	19	47.37	No	0.01	Param.
CHROMIUM, TOTAL (UG/L)	L-UMW-2D	0.47	0.11	100	No	20	55	No	0.01	NP (NDs)
CHROMIUM, TOTAL (UG/L)	L-UMW-3D	0.37	0.11	100	No	21	66.67	No	0.01	NP (NDs)
CHROMIUM, TOTAL (UG/L)	L-UMW-4D	0.49	0.11	100	No	19	63.16	No	0.01	NP (NDs)
CHROMIUM, TOTAL (UG/L)	L-UMW-5D	0.5	0.11	100	No	20	70	No	0.01	NP (NDs)
CHROMIUM, TOTAL (UG/L)	L-UMW-6D	0.5	0.115	100	No	20	60	No	0.01	NP (NDs)
CHROMIUM, TOTAL (UG/L)	L-UMW-7D	0.4382	0.162	100	No	20	50	No	0.01	Param.
CHROMIUM, TOTAL (UG/L)	L-UMW-8D	0.48	0.11	100	No	20	65	No	0.01	NP (NDs)
COBALT, TOTAL (UG/L)	L-UMW-1D	0.6	0.36	6	No	18	100	No	0.01	NP (NDs)
COBALT, TOTAL (UG/L)	L-UMW-2D	0.6	0.36	6	No	19	100	No	0.01	NP (NDs)
COBALT, TOTAL (UG/L)	L-UMW-3D	0.6	0.36	6	No	20	100	No	0.01	NP (NDs)
COBALT, TOTAL (UG/L)	L-UMW-4D	0.6	0.36	6	No	19	100	No	0.01	NP (NDs)
COBALT, TOTAL (UG/L)	L-UMW-5D	0.6	0.36	6	No	19	100	No	0.01	NP (NDs)
COBALT, TOTAL (UG/L)	L-UMW-6D	0.6	0.36	6	No	19	100	No	0.01	NP (NDs)
COBALT, TOTAL (UG/L)	L-UMW-7D	0.65	0.36	6	No	18	100	No	0.01	NP (NDs)
COBALT, TOTAL (UG/L)	L-UMW-8D	0.65	0.36	6	No	18	94.44	No	0.01	NP (NDs)
COBALT, TOTAL (UG/L)	L-UMW-9D	0.6	0.36	6	No	18	100	No	0.01	NP (NDs)

Confidence Interval

Labadie E.C. Client: Ameren Data: LEC DATA 2 Printed 8/28/2025, 12:14 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
FLUORIDE, TOTAL (MG/L)	L-UMW-1D	0.24	0.19	4	No	28	17.86	No	0.01	NP (normality)
FLUORIDE, TOTAL (MG/L)	L-UMW-3D	0.1711	0.1045	4	No	29	41.38	No	0.01	Param.
FLUORIDE, TOTAL (MG/L)	L-UMW-8D	0.2364	0.1569	4	No	27	11.11	No	0.01	Param.
FLUORIDE, TOTAL (MG/L)	L-UMW-9D	0.1784	0.136	4	No	25	20	No	0.01	Param.
LEAD, TOTAL (UG/L)	L-UMW-1D	3.05	1.25	15	No	18	77.78	No	0.01	NP (NDs)
LEAD, TOTAL (UG/L)	L-UMW-2D	2.3	1.25	15	No	18	83.33	No	0.01	NP (NDs)
LEAD, TOTAL (UG/L)	L-UMW-3D	2.3	1.25	15	No	19	84.21	No	0.01	NP (NDs)
LEAD, TOTAL (UG/L)	L-UMW-4D	1.9	1.25	15	No	18	100	No	0.01	NP (NDs)
LEAD, TOTAL (UG/L)	L-UMW-5D	2.15	1.25	15	No	18	88.89	No	0.01	NP (NDs)
LEAD, TOTAL (UG/L)	L-UMW-6D	2.15	1.25	15	No	18	88.89	No	0.01	NP (NDs)
LEAD, TOTAL (UG/L)	L-UMW-7D	2.3	1.25	15	No	17	88.24	No	0.01	NP (NDs)
LEAD, TOTAL (UG/L)	L-UMW-8D	2.3	1.25	15	No	18	83.33	No	0.01	NP (NDs)
LEAD, TOTAL (UG/L)	L-UMW-9D	2.7	1.25	15	No	17	70.59	No	0.01	NP (NDs)
LITHIUM, TOTAL (UG/L)	L-UMW-3D	22.77	18.11	47.4	No	25	0	No	0.01	Param.
LITHIUM, TOTAL (UG/L)	L-UMW-5D	23.64	17.56	47.4	No	24	0	No	0.01	Param.
LITHIUM, TOTAL (UG/L)	L-UMW-9D	18.14	16.49	47.4	No	24	0	No	0.01	Param.
MERCURY, TOTAL (UG/L)	L-UMW-1D	0.048	0.0195	2	No	18	100	No	0.01	NP (NDs)
MERCURY, TOTAL (UG/L)	L-UMW-2D	0.048	0.0195	2	No	18	100	No	0.01	NP (NDs)
MERCURY, TOTAL (UG/L)	L-UMW-3D	0.048	0.0195	2	No	19	100	No	0.01	NP (NDs)
MERCURY, TOTAL (UG/L)	L-UMW-4D	0.048	0.0195	2	No	18	100	No	0.01	NP (NDs)
MERCURY, TOTAL (UG/L)	L-UMW-5D	0.048	0.0195	2	No	18	100	No	0.01	NP (NDs)
MERCURY, TOTAL (UG/L)	L-UMW-6D	0.048	0.0195	2	No	18	100	No	0.01	NP (NDs)
MERCURY, TOTAL (UG/L)	L-UMW-7D	0.048	0.0195	2	No	18	94.44	No	0.01	NP (NDs)
MERCURY, TOTAL (UG/L)	L-UMW-8D	0.048	0.0195	2	No	18	100	No	0.01	NP (NDs)
MERCURY, TOTAL (UG/L)	L-UMW-9D	0.048	0.0195	2	No	18	100	No	0.01	NP (NDs)
MOLYBDENUM, TOTAL (UG/L)	L-UMW-1D	3.093	1.445	100	No	24	20.83	No	0.01	Param.
MOLYBDENUM, TOTAL (UG/L)	L-UMW-8D	15.24	11.76	100	No	22	0	No	0.01	Param.
MOLYBDENUM, TOTAL (UG/L)	L-UMW-9D	1.483	0.8781	100	No	24	41.67	No	0.01	Param.
Radium [226 + 228] (PCI/L)	L-UMW-1D	2.097	1.681	5	No	23	21.74	No	0.01	Param.
Radium [226 + 228] (PCI/L)	L-UMW-2D	2.013	1.557	5	No	24	33.33	No	0.01	Param.
Radium [226 + 228] (PCI/L)	L-UMW-3D	1.248	0.717	5	No	25	76	No	0.01	NP (NDs)
Radium [226 + 228] (PCI/L)	L-UMW-4D	1.077	0.76	5	No	24	75	No	0.01	NP (NDs)
Radium [226 + 228] (PCI/L)	L-UMW-5D	1.046	0.6335	5	No	23	91.3	No	0.01	NP (NDs)
Radium [226 + 228] (PCI/L)	L-UMW-6D	1.334	0.746	5	No	24	62.5	No	0.01	NP (NDs)
Radium [226 + 228] (PCI/L)	L-UMW-7D	1.574	0.7	5	No	24	75	No	0.01	NP (NDs)
Radium [226 + 228] (PCI/L)	L-UMW-9D	0.9025	0.5835	5	No	24	91.67	No	0.01	NP (NDs)
SELENIUM, TOTAL (UG/L)	L-UMW-1D	0.11	0.043	50	No	21	95.24	No	0.01	NP (NDs)
SELENIUM, TOTAL (UG/L)	L-UMW-2D	0.11	0.043	50	No	21	95.24	No	0.01	NP (NDs)
SELENIUM, TOTAL (UG/L)	L-UMW-3D	0.26	0.09	50	No	22	54.55	No	0.01	NP (NDs)
SELENIUM, TOTAL (UG/L)	L-UMW-4D	0.19	0.043	50	No	21	95.24	No	0.01	NP (NDs)
SELENIUM, TOTAL (UG/L)	L-UMW-5D	0.15	0.09	50	No	21	61.9	No	0.01	NP (NDs)
SELENIUM, TOTAL (UG/L)	L-UMW-6D	0.26	0.09	50	No	21	33.33	No	0.01	NP (normality)
SELENIUM, TOTAL (UG/L)	L-UMW-7D	0.091	0.089	50	No	21	85.71	No	0.01	NP (NDs)
SELENIUM, TOTAL (UG/L)	L-UMW-8D	0.09	0.087	50	No	21	95.24	No	0.01	NP (NDs)
SELENIUM, TOTAL (UG/L)	L-UMW-9D	0.09	0.043	50	No	21	100	No	0.01	NP (NDs)
THALLIUM, TOTAL (UG/L)	L-UMW-1D	0.25	0.047	2	No	18	88.89	No	0.01	NP (NDs)
THALLIUM, TOTAL (UG/L)	L-UMW-2D	0.25	0.0465	2	No	18	100	No	0.01	NP (NDs)
THALLIUM, TOTAL (UG/L)	L-UMW-3D	0.25	0.0465	2	No	19	100	No	0.01	NP (NDs)
THALLIUM, TOTAL (UG/L)	L-UMW-4D	0.25	0.0465	2	No	18	100	No	0.01	NP (NDs)
THALLIUM, TOTAL (UG/L)	L-UMW-5D	0.25	0.0465	2	No	18	100	No	0.01	NP (NDs)

Confidence Interval

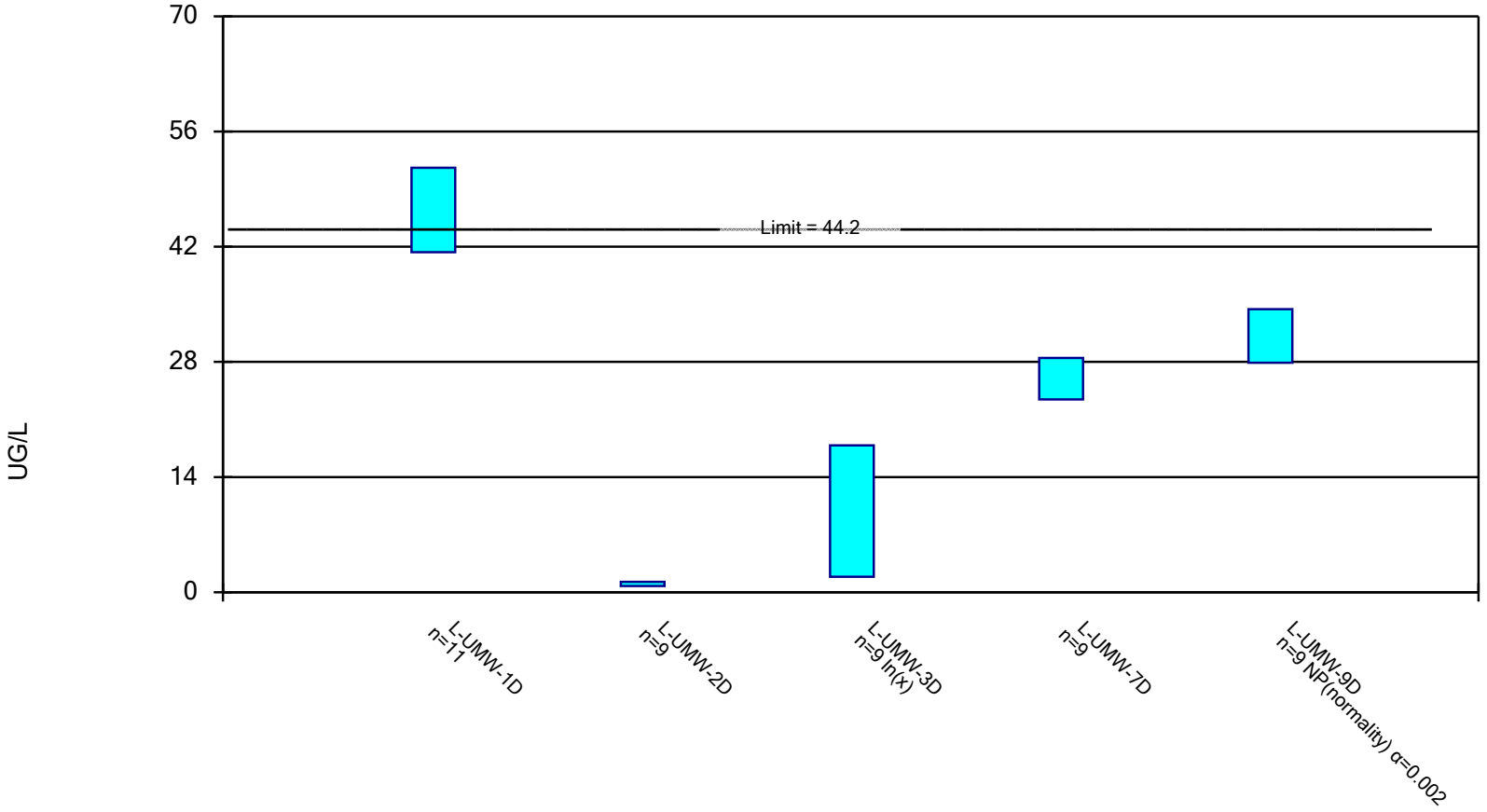
Labadie E.C. Client: Ameren Data: LEC DATA 2 Printed 8/28/2025, 12:14 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
THALLIUM, TOTAL (UG/L)	L-UMW-6D	0.25	0.047	2	No	18	94.44	No	0.01	NP (NDs)
THALLIUM, TOTAL (UG/L)	L-UMW-7D	0.25	0.0465	2	No	18	100	No	0.01	NP (NDs)
THALLIUM, TOTAL (UG/L)	L-UMW-8D	0.25	0.0465	2	No	18	100	No	0.01	NP (NDs)
THALLIUM, TOTAL (UG/L)	L-UMW-9D	0.25	0.0465	2	No	18	100	No	0.01	NP (NDs)

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

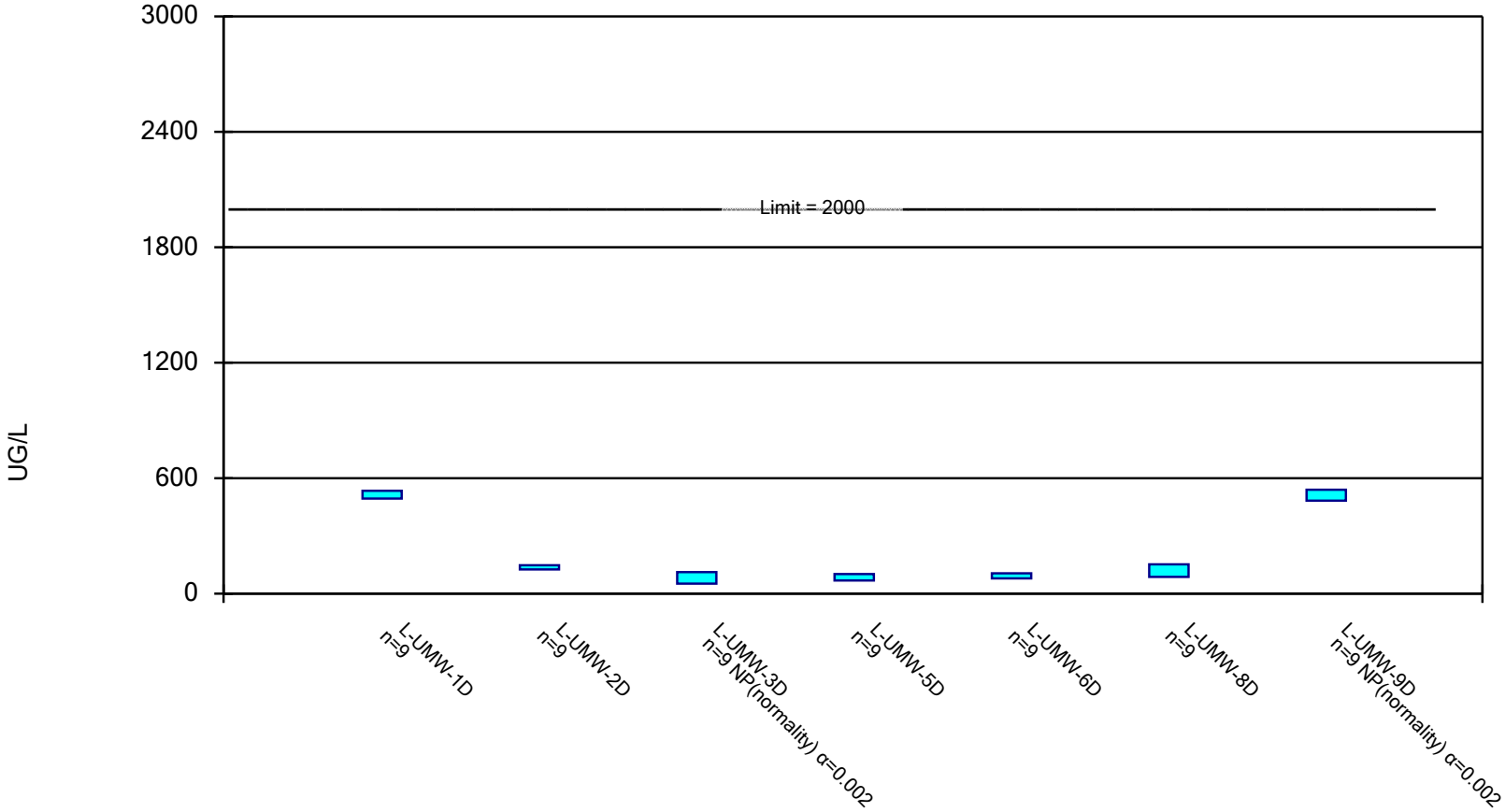


Constituent: ARSENIC, TOTAL Analysis Run 8/28/2025 1:45 PM View: SSL Post Closure

Labadie E.C. Client: Ameren Data: LEC DATA 2

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



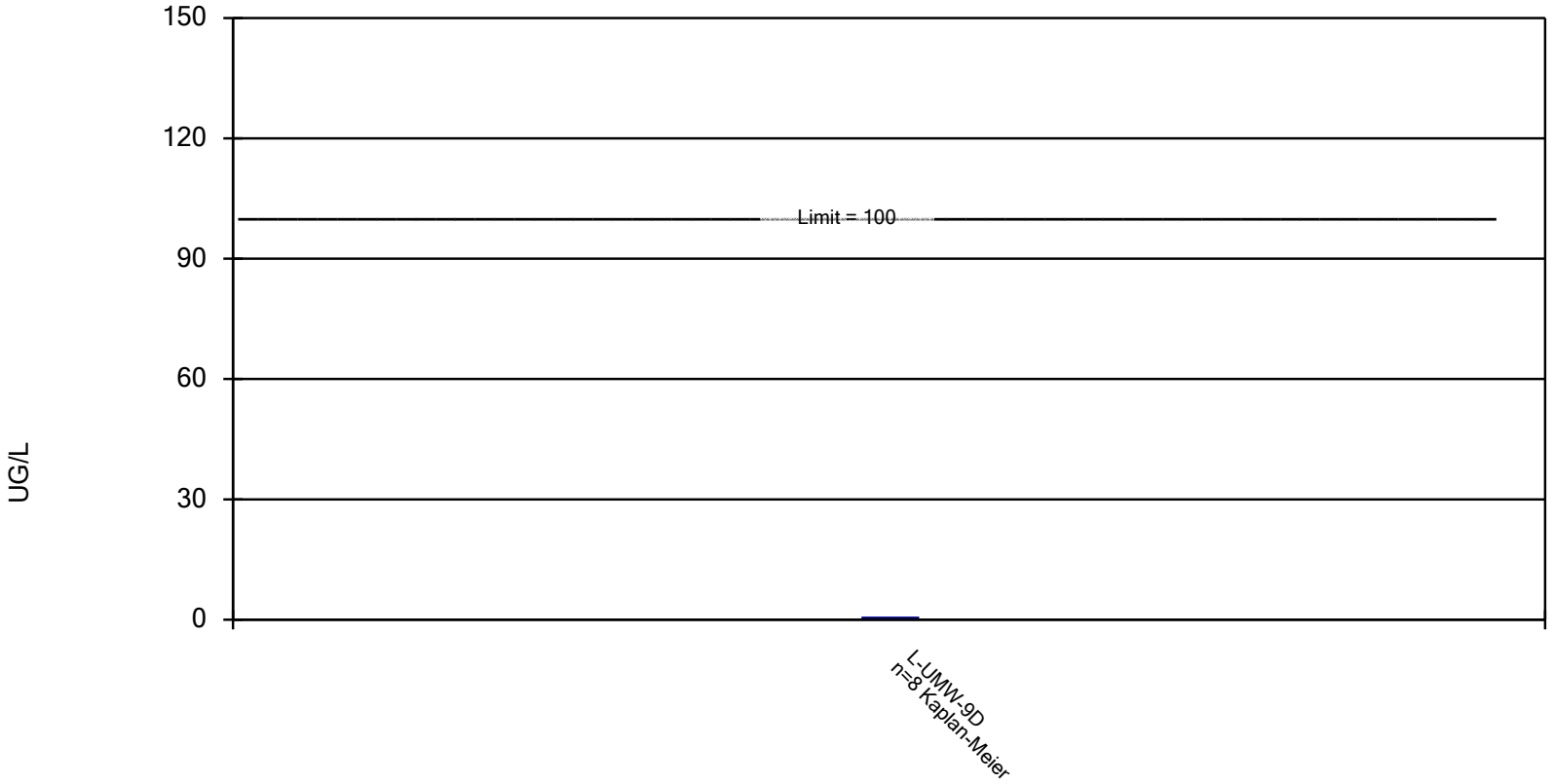
Constituent: BARIUM, TOTAL Analysis Run 8/28/2025 1:45 PM View: SSL Post Closure

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

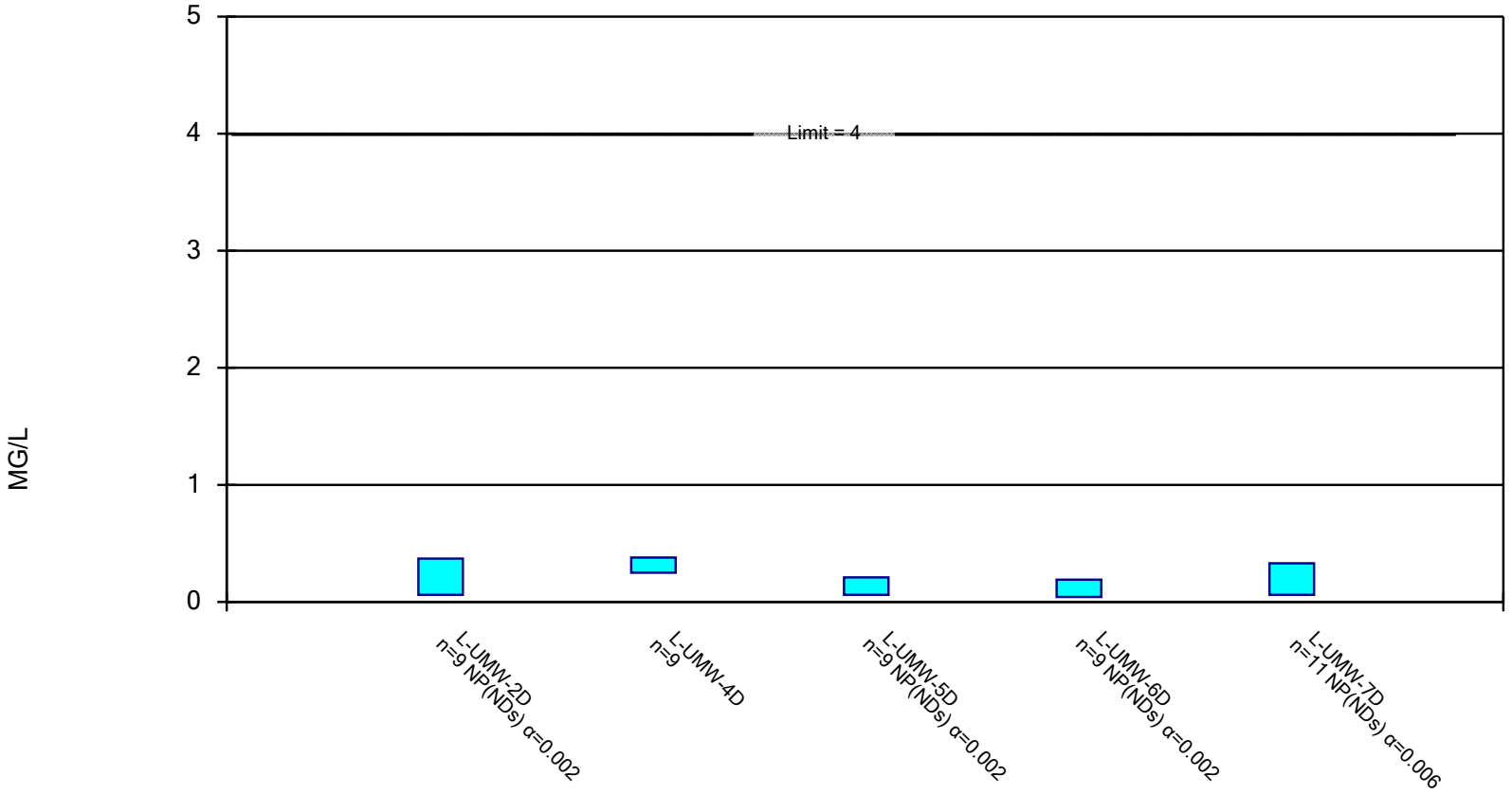


Constituent: CHROMIUM, TOTAL Analysis Run 8/28/2025 1:45 PM View: SSL Post Closure

Labadie E.C. Client: Ameren Data: LEC DATA 2

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



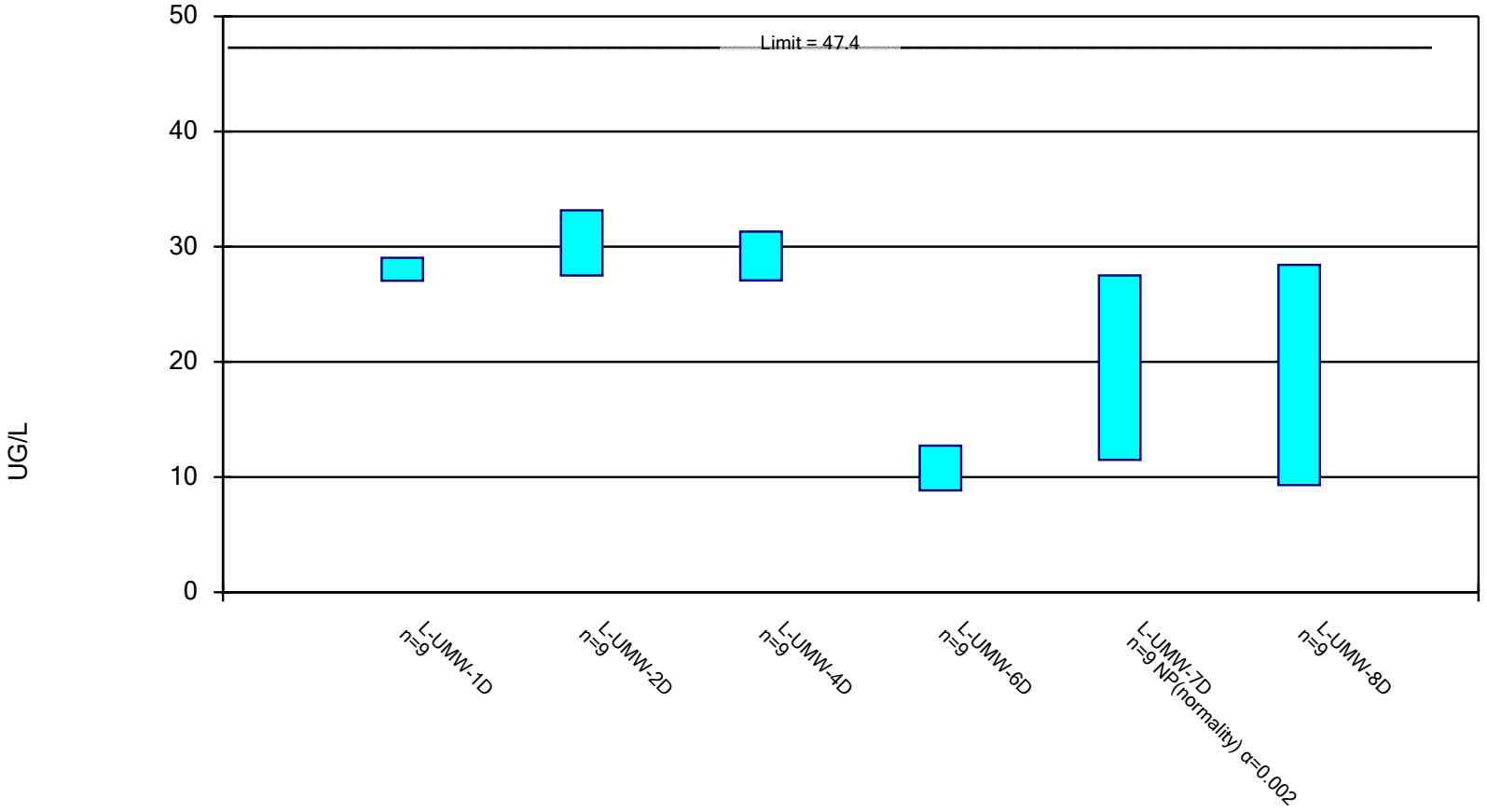
Constituent: FLUORIDE, TOTAL Analysis Run 8/28/2025 1:45 PM View: SSL Post Closure

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



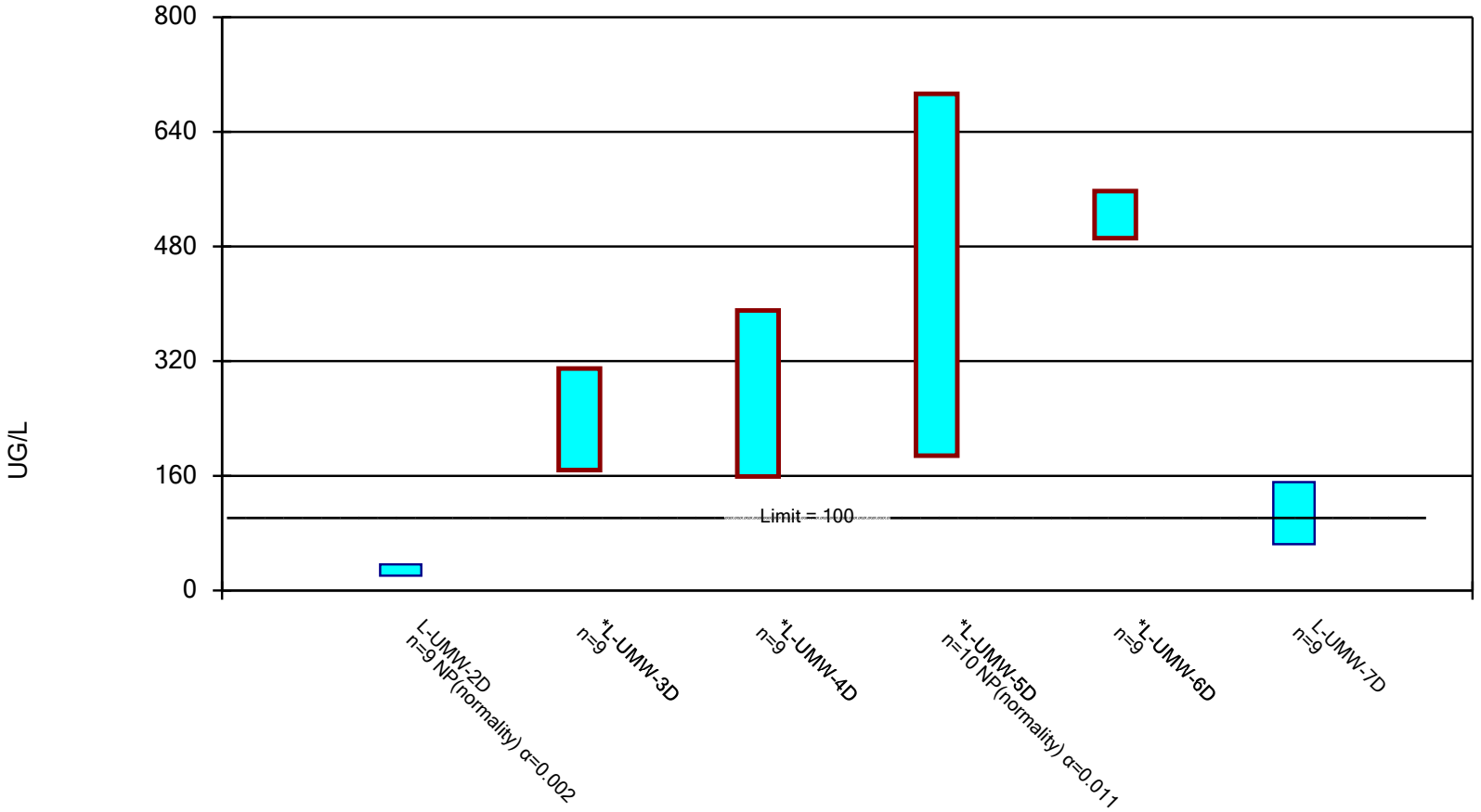
Constituent: LITHIUM, TOTAL Analysis Run 8/28/2025 1:45 PM View: SSL Post Closure

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



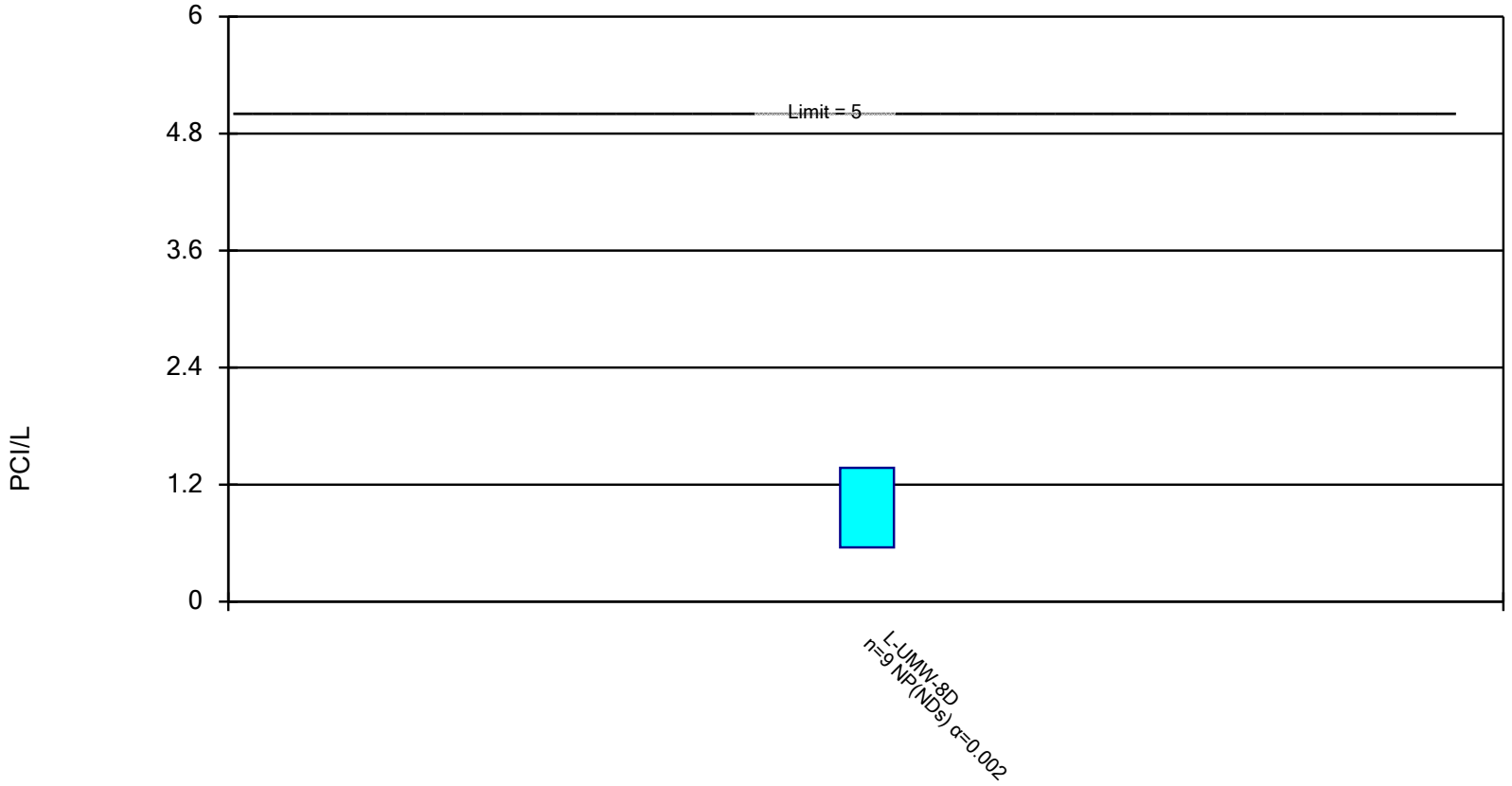
Constituent: MOLYBDENUM, TOTAL Analysis Run 8/28/2025 1:45 PM View: SSL Post Closure

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.



Constituent: Radium [226 + 228] Analysis Run 8/28/2025 1:45 PM View: SSL Post Closure

Labadie E.C. Client: Ameren Data: LEC DATA 2

Confidence Interval

Labadie E.C. Client: Ameren Data: LEC DATA 2 Printed 8/28/2025, 1:47 PM

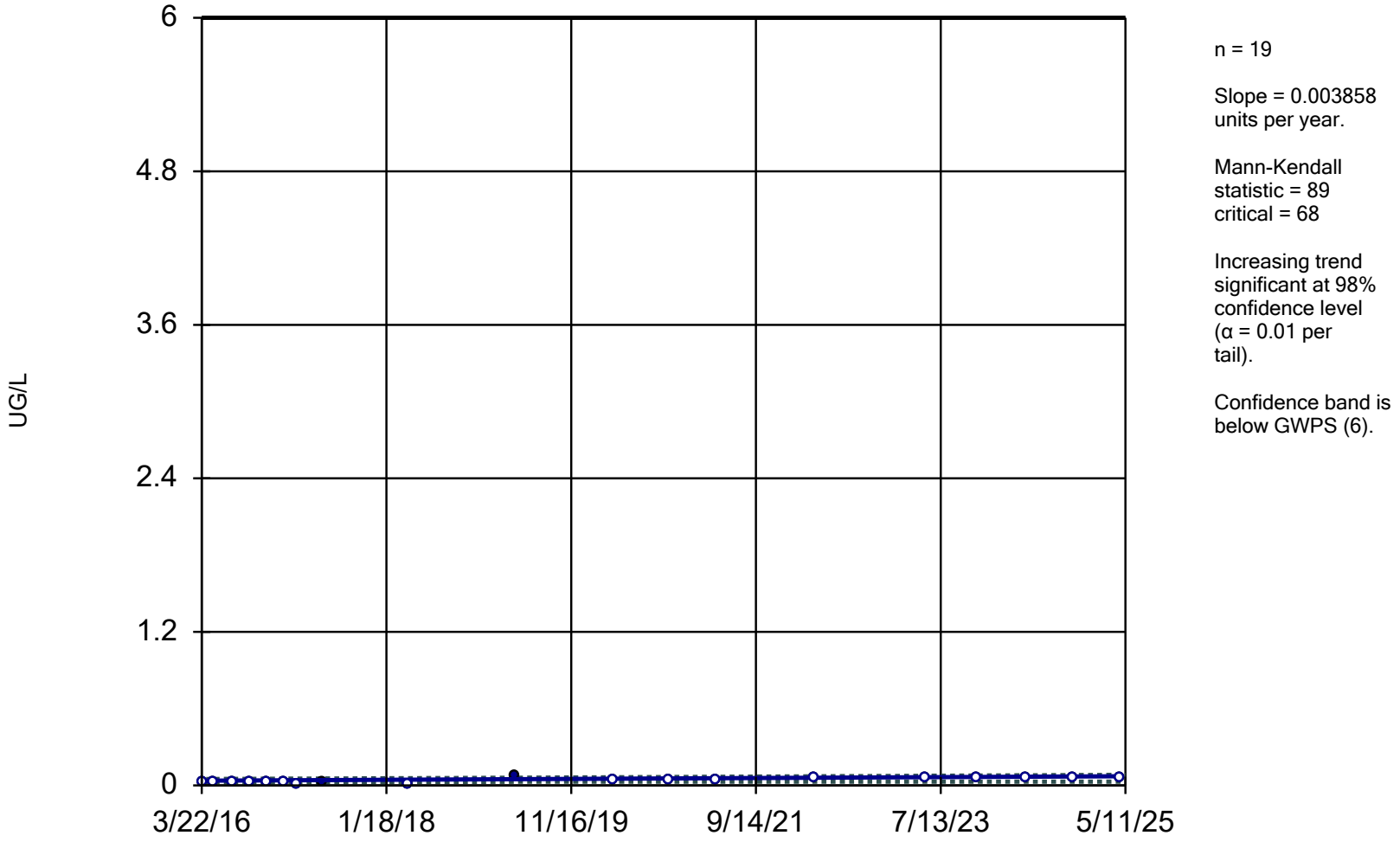
Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
ARSENIC, TOTAL (UG/L)	L-UMW-1D	51.59	41.34	44.2	No	11	0	No	0.01	Param.
ARSENIC, TOTAL (UG/L)	L-UMW-2D	1.256	0.7548	44.2	No	9	0	No	0.01	Param.
ARSENIC, TOTAL (UG/L)	L-UMW-3D	17.86	1.874	44.2	No	9	0	ln(x)	0.01	Param.
ARSENIC, TOTAL (UG/L)	L-UMW-7D	28.48	23.43	44.2	No	9	0	No	0.01	Param.
ARSENIC, TOTAL (UG/L)	L-UMW-9D	34.4	27.9	44.2	No	9	0	No	0.002	NP (normality)
BARIUM, TOTAL (UG/L)	L-UMW-1D	534.7	493.7	2000	No	9	0	No	0.01	Param.
BARIUM, TOTAL (UG/L)	L-UMW-2D	147.5	126	2000	No	9	0	No	0.01	Param.
BARIUM, TOTAL (UG/L)	L-UMW-3D	112	51.6	2000	No	9	0	No	0.002	NP (normality)
BARIUM, TOTAL (UG/L)	L-UMW-5D	101.3	68.42	2000	No	9	0	No	0.01	Param.
BARIUM, TOTAL (UG/L)	L-UMW-6D	105.6	79.25	2000	No	9	0	No	0.01	Param.
BARIUM, TOTAL (UG/L)	L-UMW-8D	152.1	87.15	2000	No	9	0	No	0.01	Param.
BARIUM, TOTAL (UG/L)	L-UMW-9D	540	483	2000	No	9	0	No	0.002	NP (normality)
CHROMIUM, TOTAL (UG/L)	L-UMW-9D	0.4478	0.2562	100	No	8	50	No	0.01	Param.
FLUORIDE, TOTAL (MG/L)	L-UMW-2D	0.37	0.06	4	No	9	66.67	No	0.002	NP (NDs)
FLUORIDE, TOTAL (MG/L)	L-UMW-4D	0.3789	0.25	4	No	9	0	No	0.01	Param.
FLUORIDE, TOTAL (MG/L)	L-UMW-5D	0.21	0.06	4	No	9	77.78	No	0.002	NP (NDs)
FLUORIDE, TOTAL (MG/L)	L-UMW-6D	0.19	0.043	4	No	9	88.89	No	0.002	NP (NDs)
FLUORIDE, TOTAL (MG/L)	L-UMW-7D	0.33	0.06	4	No	11	54.55	No	0.006	NP (NDs)
LITHIUM, TOTAL (UG/L)	L-UMW-1D	29.03	27.05	47.4	No	9	0	No	0.01	Param.
LITHIUM, TOTAL (UG/L)	L-UMW-2D	33.17	27.5	47.4	No	9	0	No	0.01	Param.
LITHIUM, TOTAL (UG/L)	L-UMW-4D	31.31	27.07	47.4	No	9	0	No	0.01	Param.
LITHIUM, TOTAL (UG/L)	L-UMW-6D	12.72	8.845	47.4	No	9	11.11	No	0.01	Param.
LITHIUM, TOTAL (UG/L)	L-UMW-7D	27.5	11.5	47.4	No	9	11.11	No	0.002	NP (normality)
LITHIUM, TOTAL (UG/L)	L-UMW-8D	28.42	9.314	47.4	No	9	0	No	0.01	Param.
MOLYBDENUM, TOTAL (UG/L)	L-UMW-2D	36.5	20.6	100	No	9	0	No	0.002	NP (normality)
MOLYBDENUM, TOTAL (UG/L)	**L-UMW-3D**	**309.8**	**168**	**100**	**Yes**	**9**	**0**	**No**	**0.01**	**Param.**
MOLYBDENUM, TOTAL (UG/L)	**L-UMW-4D**	**390.7**	**159.1**	**100**	**Yes**	**9**	**0**	**No**	**0.01**	**Param.**
MOLYBDENUM, TOTAL (UG/L)	**L-UMW-5D**	**693**	**188**	**100**	**Yes**	**10**	**0**	**No**	**0.011**	**NP (normality)**
MOLYBDENUM, TOTAL (UG/L)	**L-UMW-6D**	**557.4**	**491.7**	**100**	**Yes**	**9**	**0**	**No**	**0.01**	**Param.**
MOLYBDENUM, TOTAL (UG/L)	L-UMW-7D	151.1	64.54	100	No	9	0	No	0.01	Param.
Radium [226 + 228] (PCI/L)	L-UMW-8D	1.372	0.5555	5	No	9	100	No	0.002	NP (NDs)

Appendix C
Sanitas Trending Confidence Bands Statistical Output

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Sen's Slope and 95% Confidence Band

L-UMW-1D



n = 19

Slope = 0.003858 units per year.

Mann-Kendall statistic = 89
critical = 68

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Confidence band is below GWPS (6).

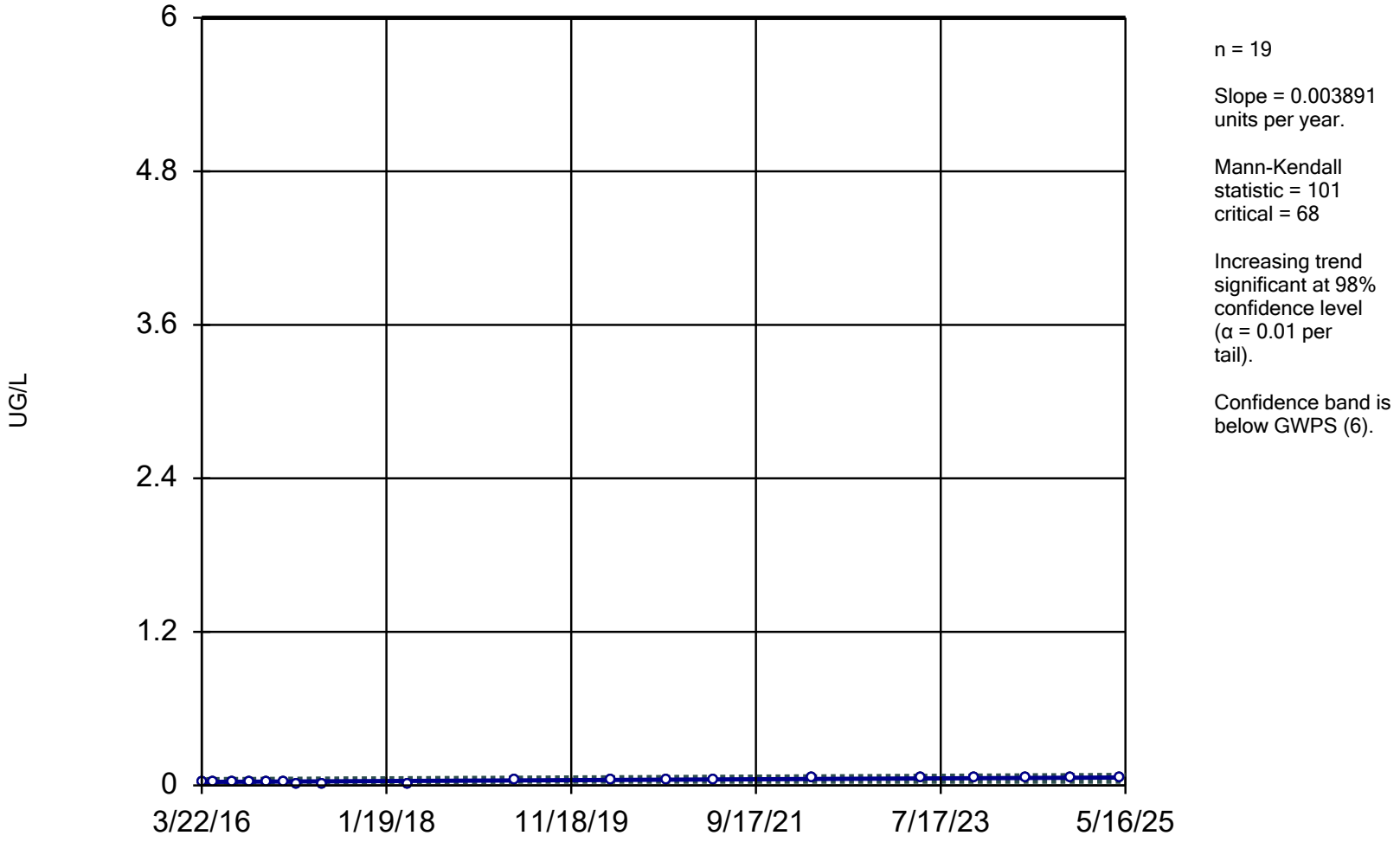
Constituent: ANTIMONY, TOTAL Analysis Run 8/28/2025 12:15 PM View: SSL All Data

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Sen's Slope and 95% Confidence Band

L-UMW-2D



n = 19

Slope = 0.003891 units per year.

Mann-Kendall statistic = 101
critical = 68

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Confidence band is below GWPS (6).

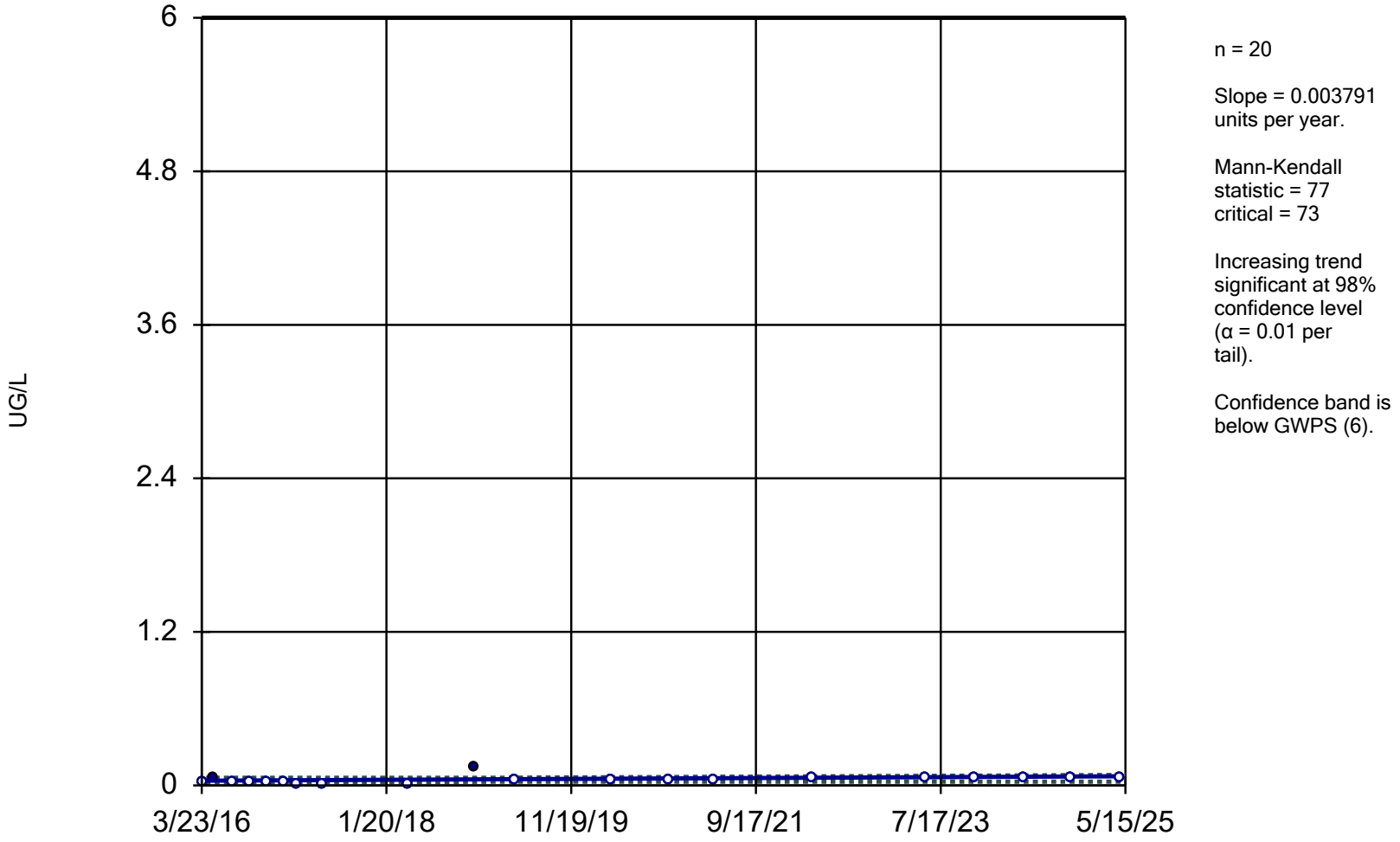
Constituent: ANTIMONY, TOTAL Analysis Run 8/28/2025 12:15 PM View: SSL All Data

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Sen's Slope and 95% Confidence Band

L-UMW-3D



n = 20

Slope = 0.003791 units per year.

Mann-Kendall statistic = 77
critical = 73

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Confidence band is below GWPS (6).

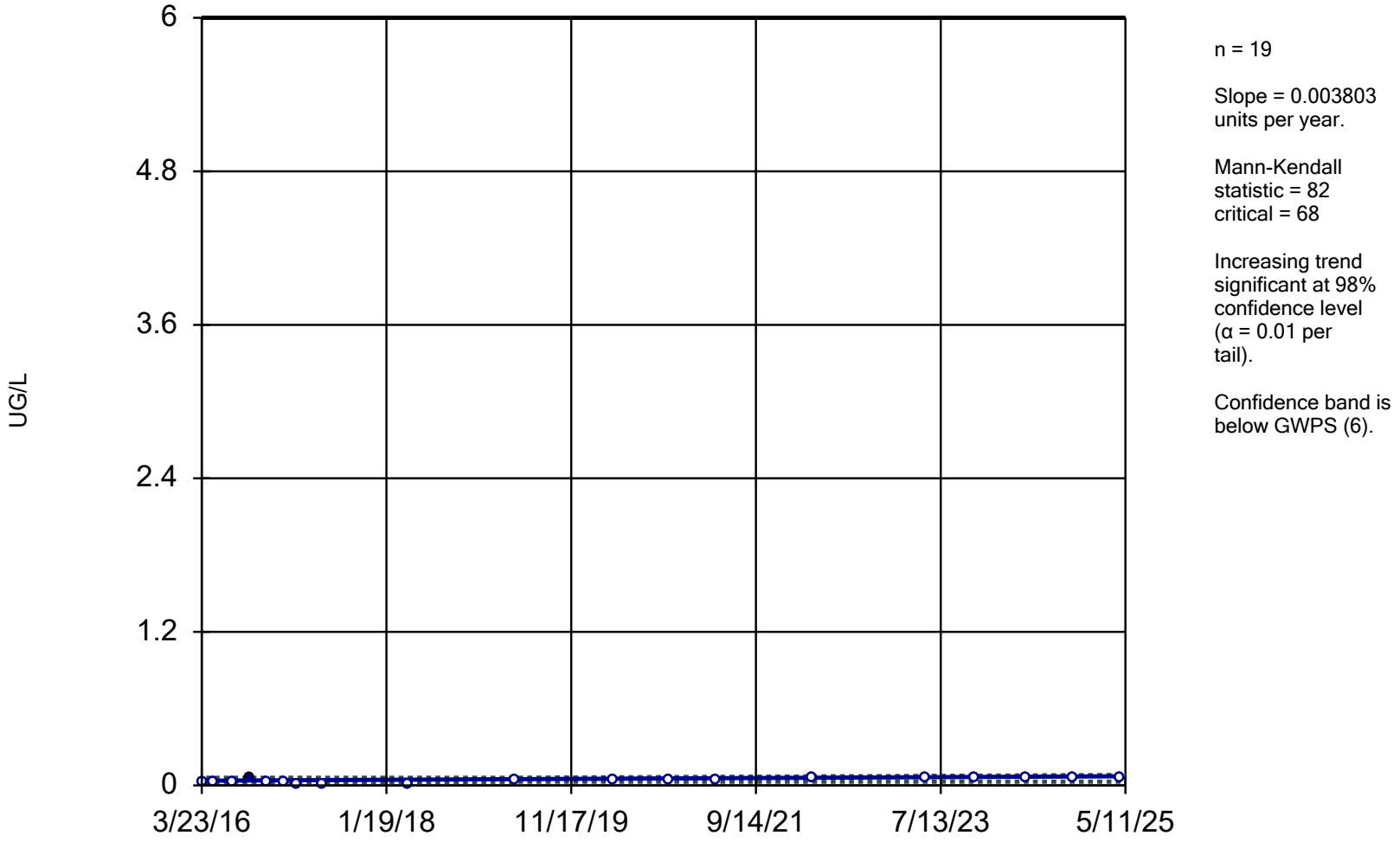
Constituent: ANTIMONY, TOTAL Analysis Run 8/28/2025 12:15 PM View: SSL All Data

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Sen's Slope and 95% Confidence Band

L-UMW-4D



n = 19

Slope = 0.003803 units per year.

Mann-Kendall statistic = 82
critical = 68

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

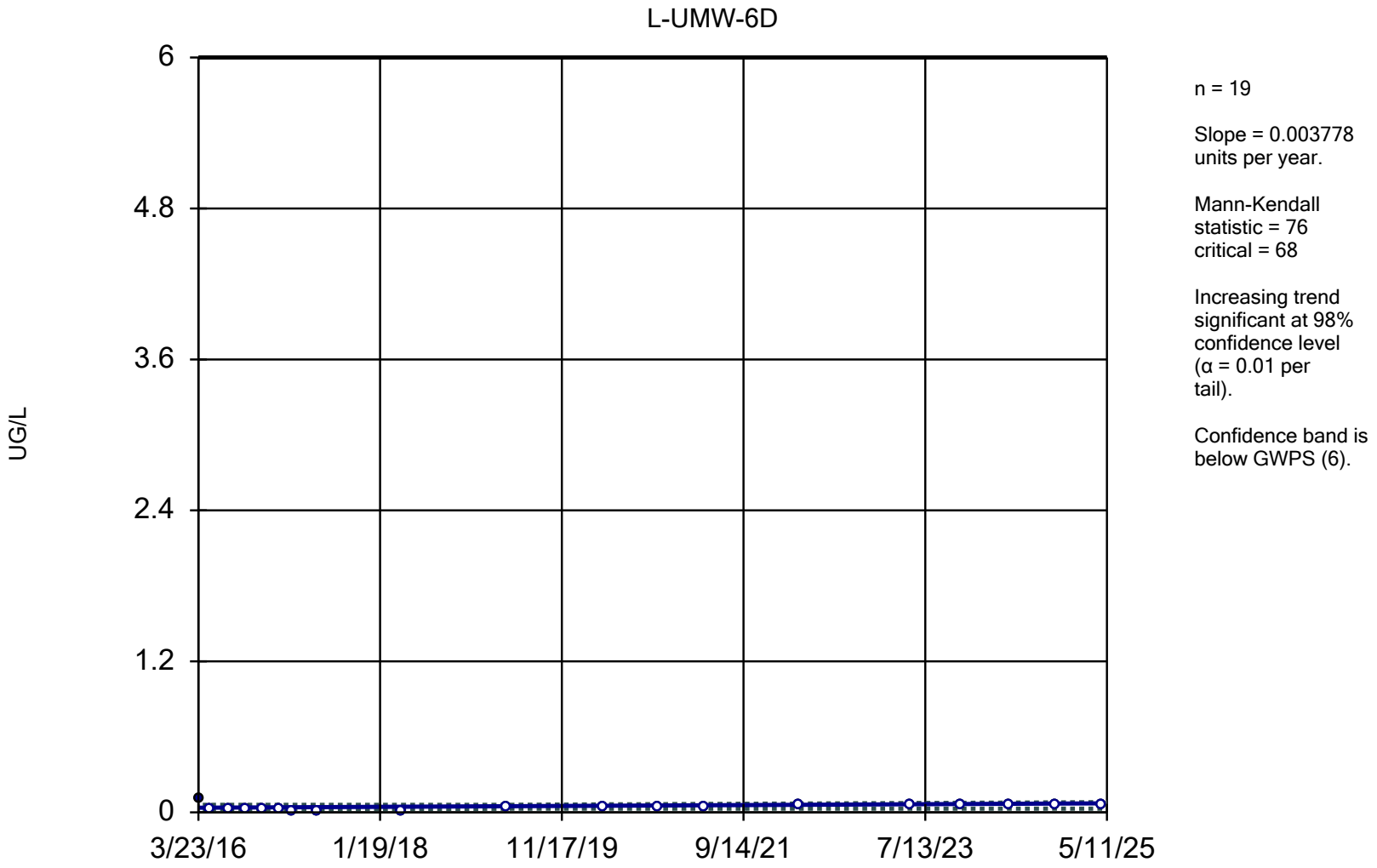
Confidence band is below GWPS (6).

Constituent: ANTIMONY, TOTAL Analysis Run 8/28/2025 12:15 PM View: SSL All Data

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Sen's Slope and 95% Confidence Band



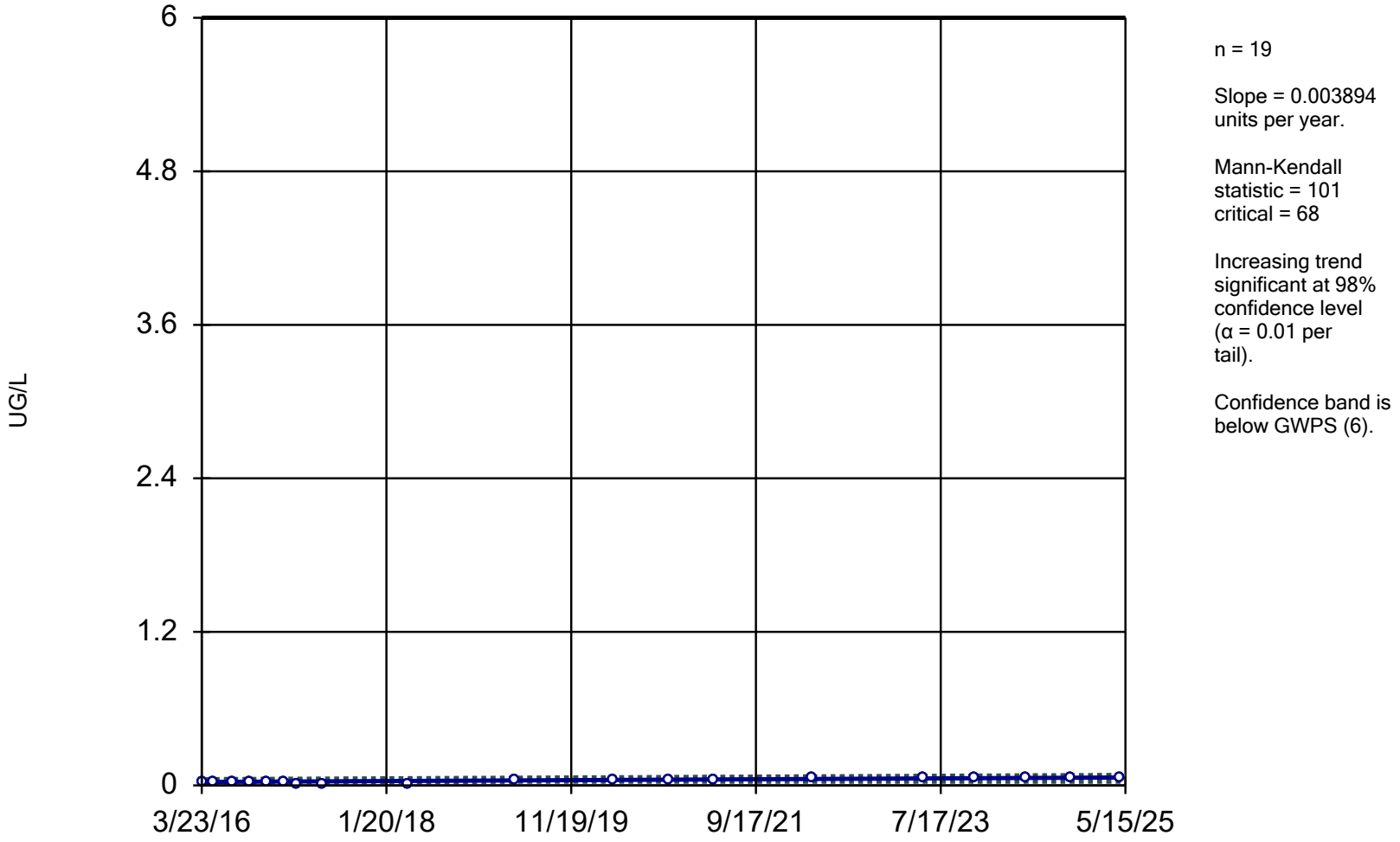
Constituent: ANTIMONY, TOTAL Analysis Run 8/28/2025 12:15 PM View: SSL All Data

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Sen's Slope and 95% Confidence Band

L-UMW-7D



n = 19

Slope = 0.003894 units per year.

Mann-Kendall statistic = 101
critical = 68

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Confidence band is below GWPS (6).

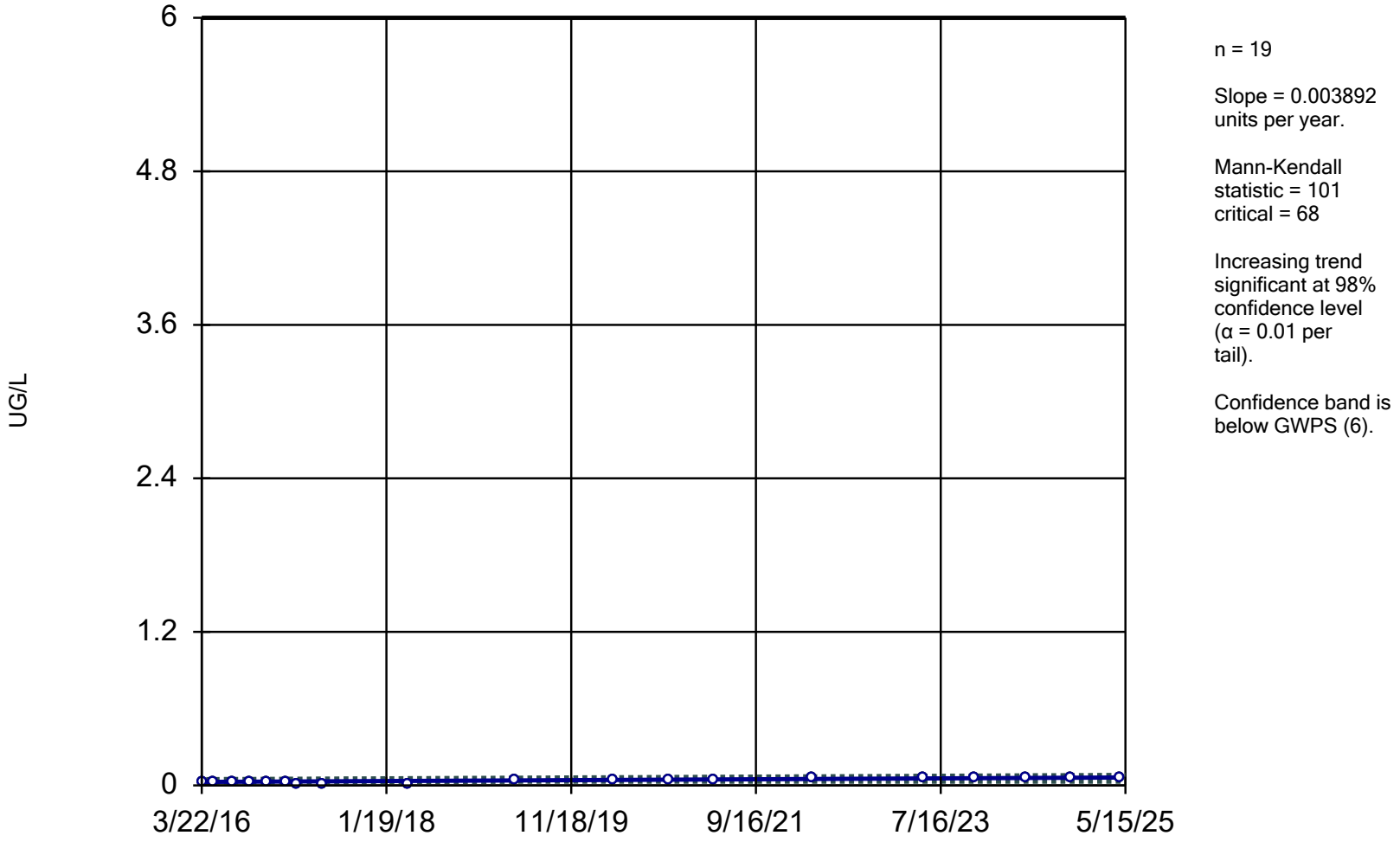
Constituent: ANTIMONY, TOTAL Analysis Run 8/28/2025 12:15 PM View: SSL All Data

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Sen's Slope and 95% Confidence Band

L-UMW-8D



n = 19

Slope = 0.003892 units per year.

Mann-Kendall statistic = 101
critical = 68

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Confidence band is below GWPS (6).

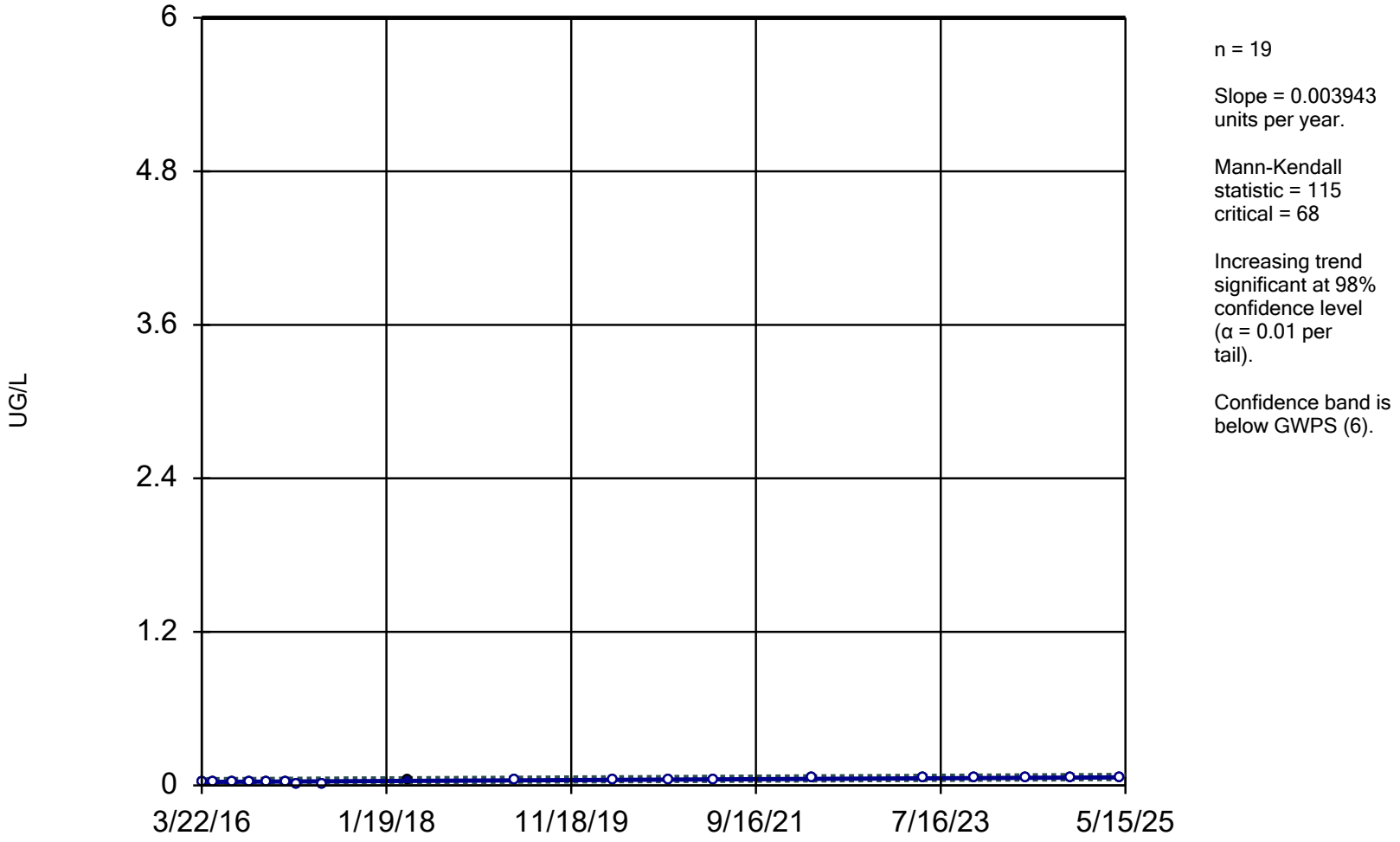
Constituent: ANTIMONY, TOTAL Analysis Run 8/28/2025 12:15 PM View: SSL All Data

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Sen's Slope and 95% Confidence Band

L-UMW-9D



n = 19

Slope = 0.003943 units per year.

Mann-Kendall statistic = 115
critical = 68

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

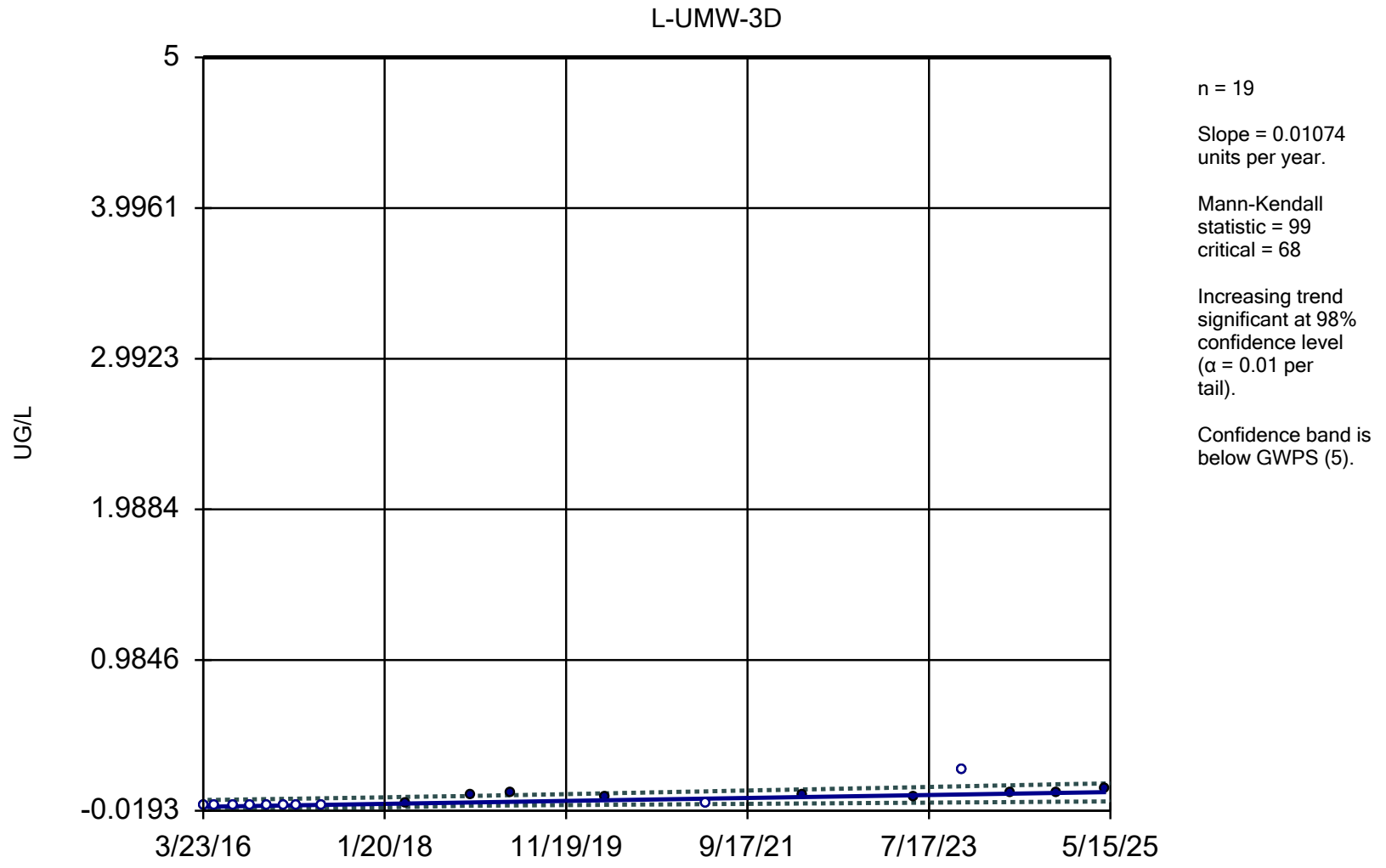
Confidence band is below GWPS (6).

Constituent: ANTIMONY, TOTAL Analysis Run 8/28/2025 12:15 PM View: SSL All Data

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Sen's Slope and 95% Confidence Band

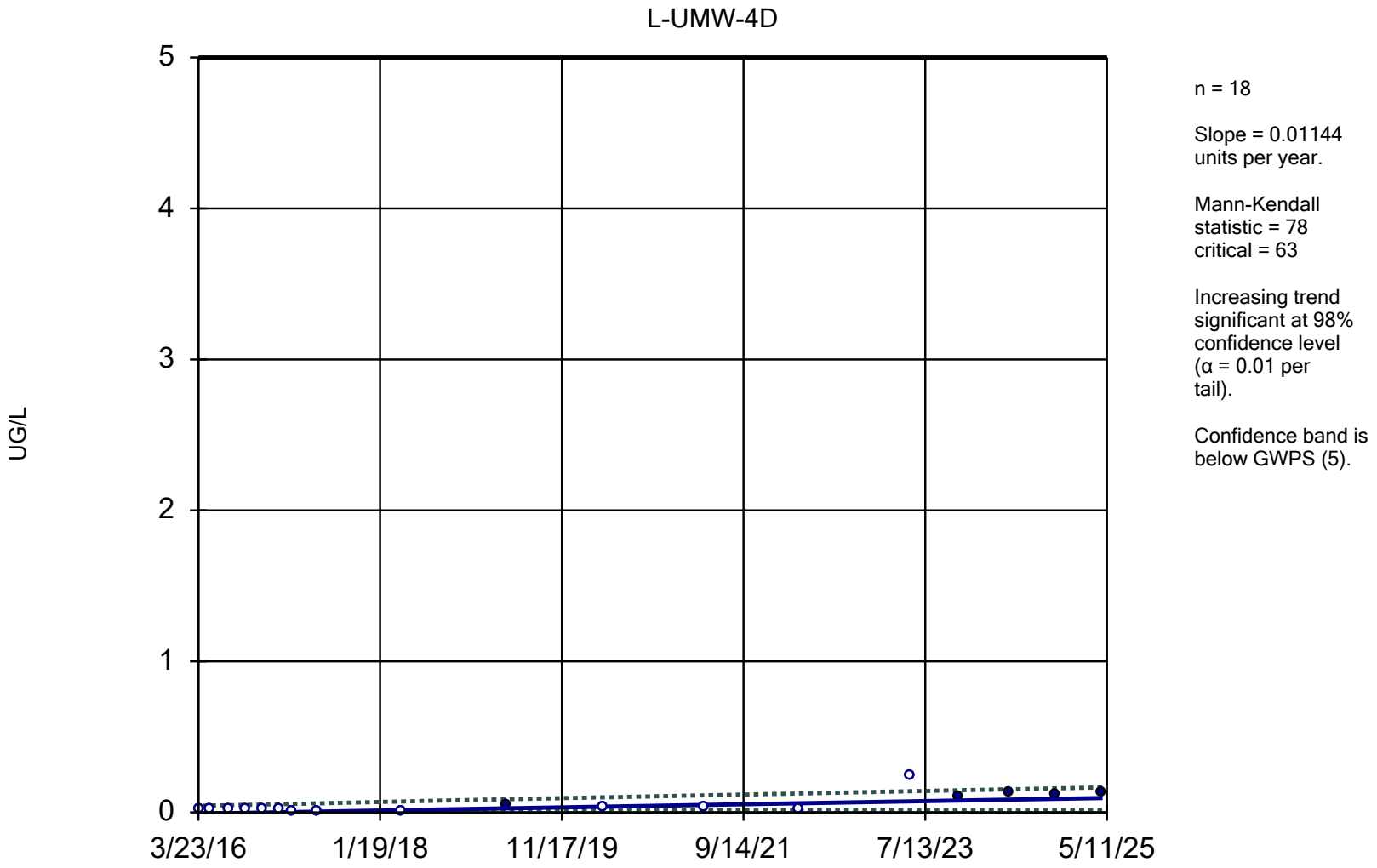


Constituent: CADMIUM, TOTAL Analysis Run 8/28/2025 12:16 PM View: SSL All Data

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Sen's Slope and 95% Confidence Band



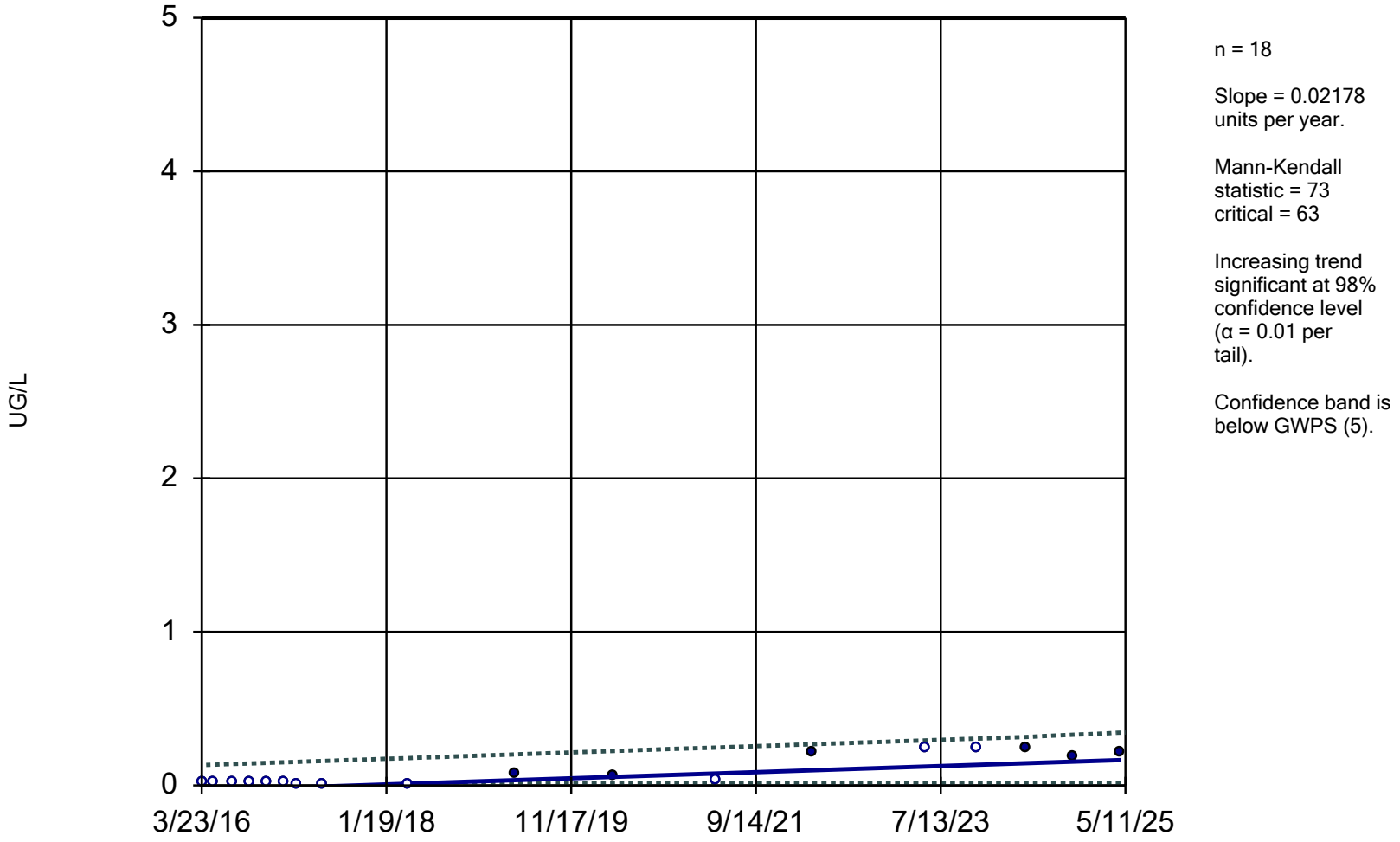
Constituent: CADMIUM, TOTAL Analysis Run 8/28/2025 12:16 PM View: SSL All Data

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Sen's Slope and 95% Confidence Band

L-UMW-5D



n = 18

Slope = 0.02178 units per year.

Mann-Kendall statistic = 73
critical = 63

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Confidence band is below GWPS (5).

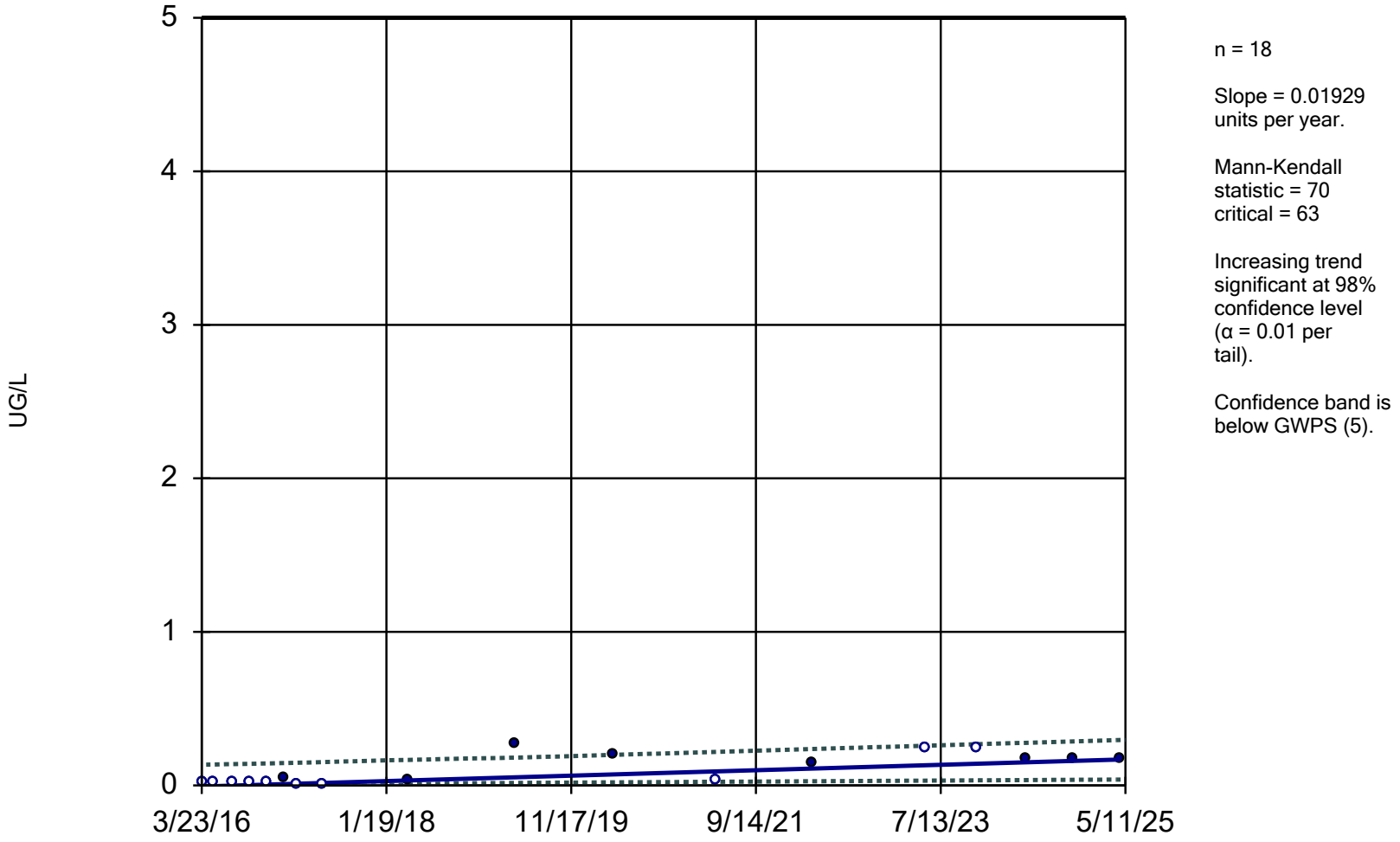
Constituent: CADMIUM, TOTAL Analysis Run 8/28/2025 12:16 PM View: SSL All Data

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Sen's Slope and 95% Confidence Band

L-UMW-6D



n = 18

Slope = 0.01929 units per year.

Mann-Kendall statistic = 70
critical = 63

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Confidence band is below GWPS (5).

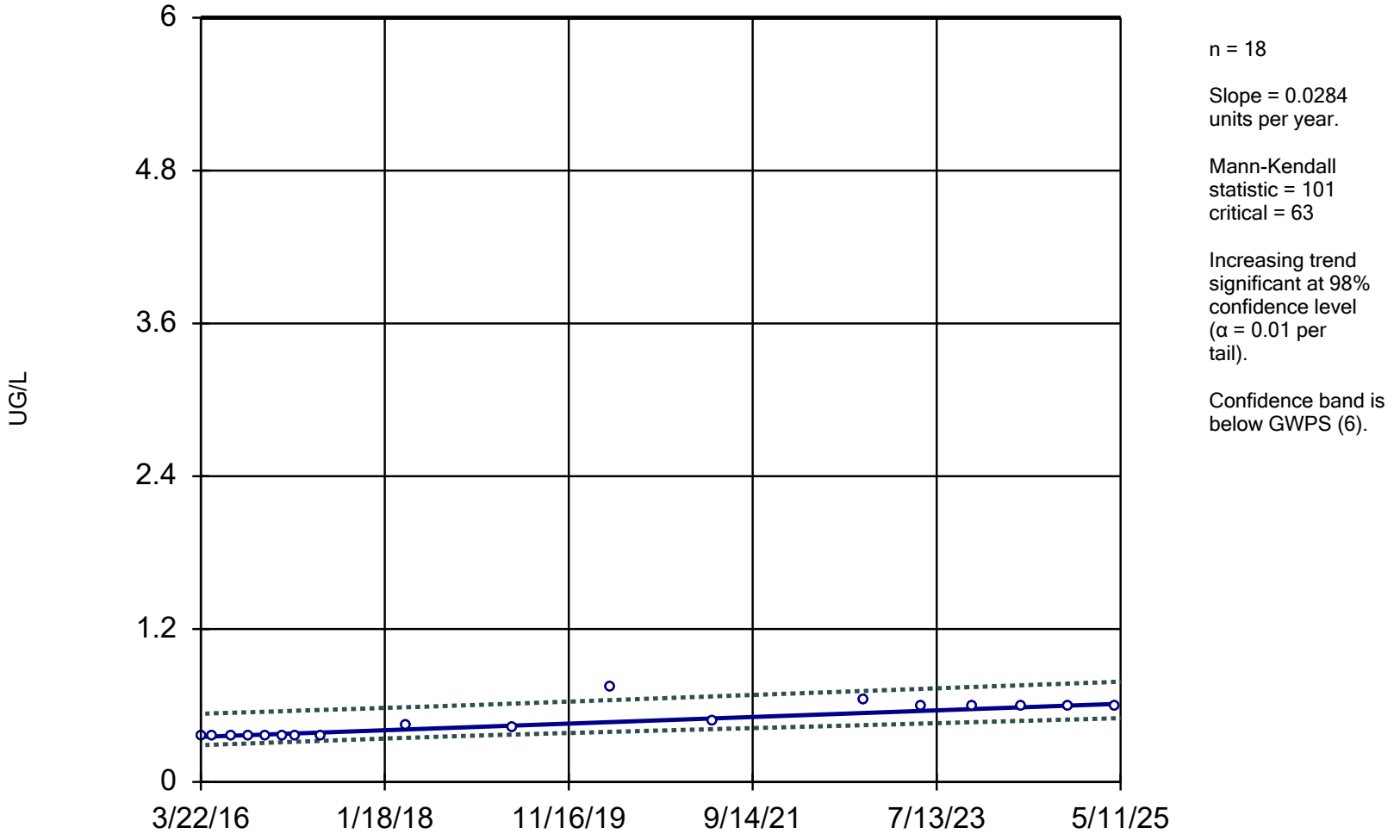
Constituent: CADMIUM, TOTAL Analysis Run 8/28/2025 12:16 PM View: SSL All Data

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Sen's Slope and 95% Confidence Band

L-UMW-1D



n = 18

Slope = 0.0284 units per year.

Mann-Kendall statistic = 101 critical = 63

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Confidence band is below GWPS (6).

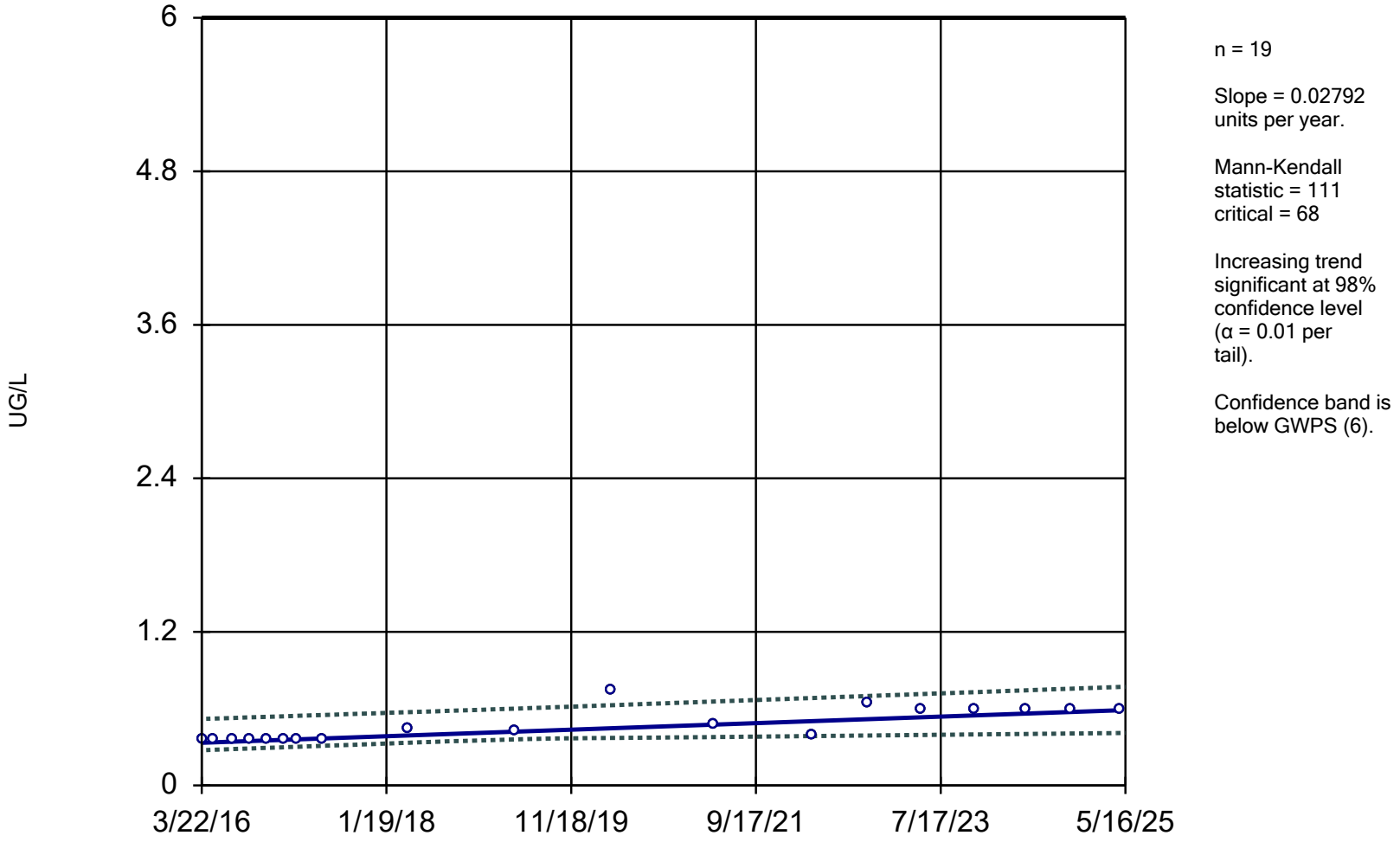
Constituent: COBALT, TOTAL Analysis Run 8/28/2025 12:16 PM View: SSL All Data

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Sen's Slope and 95% Confidence Band

L-UMW-2D



n = 19

Slope = 0.02792 units per year.

Mann-Kendall statistic = 111
critical = 68

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Confidence band is below GWPS (6).

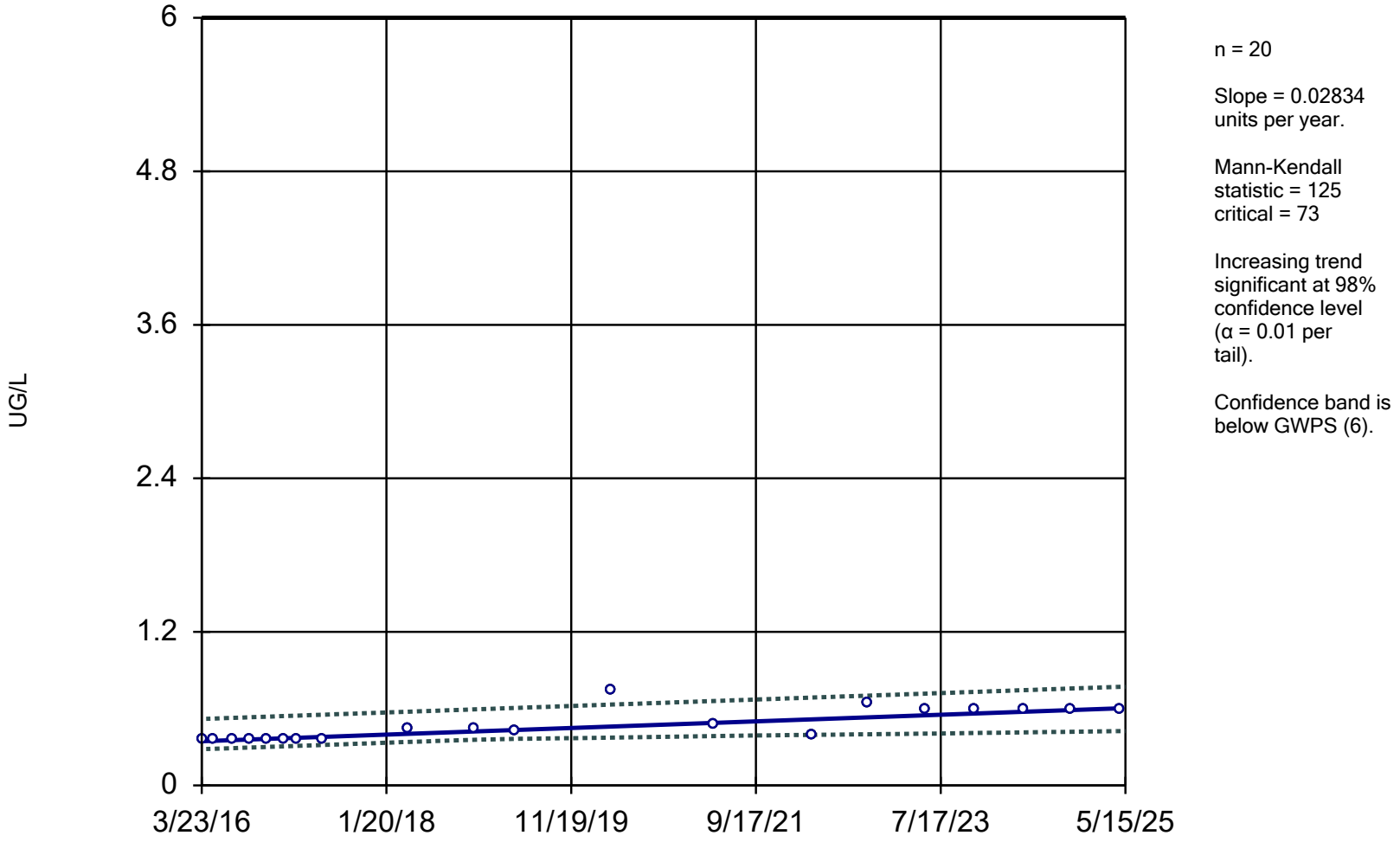
Constituent: COBALT, TOTAL Analysis Run 8/28/2025 12:16 PM View: SSL All Data

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Sen's Slope and 95% Confidence Band

L-UMW-3D



n = 20

Slope = 0.02834 units per year.

Mann-Kendall statistic = 125
critical = 73

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Confidence band is below GWPS (6).

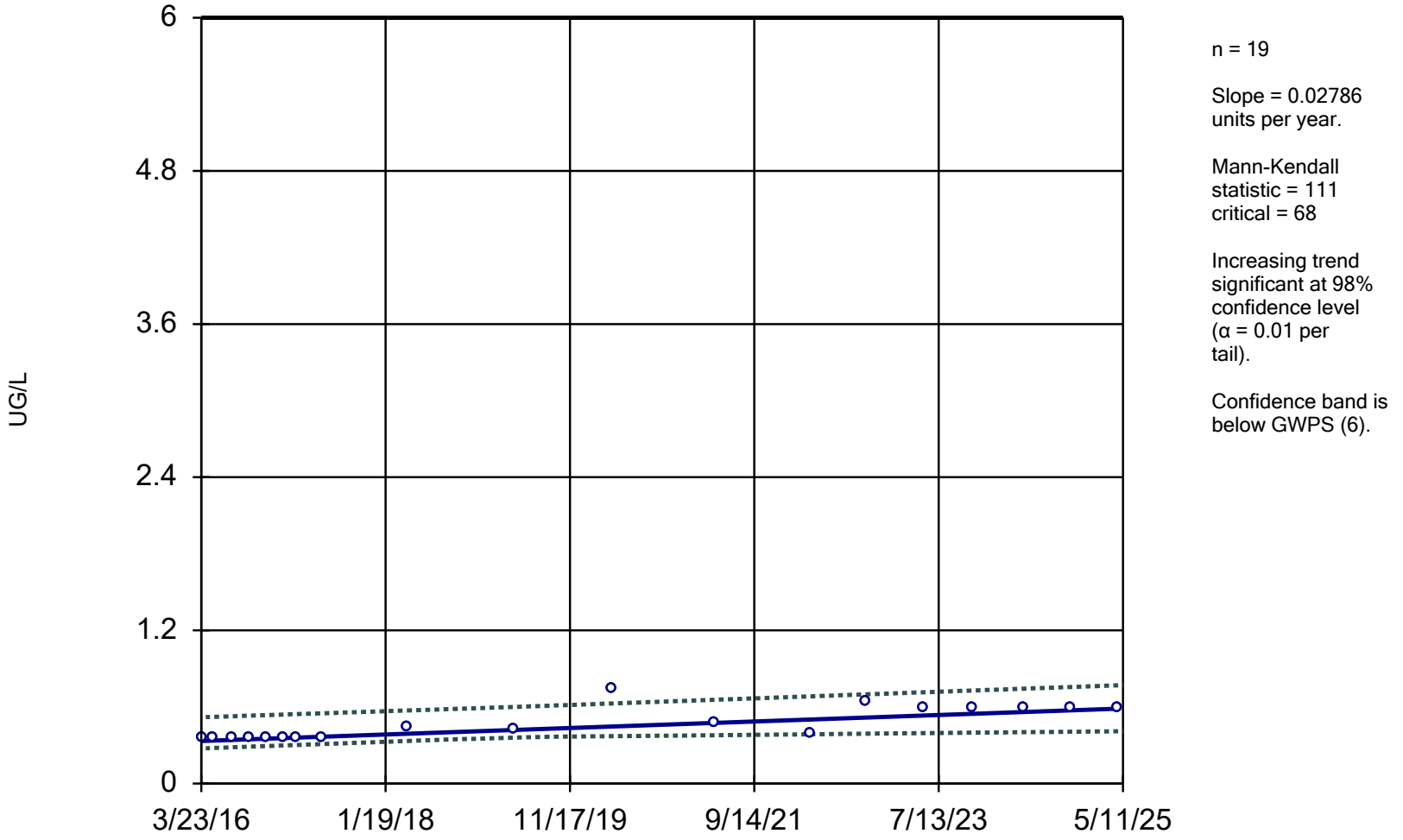
Constituent: COBALT, TOTAL Analysis Run 8/28/2025 12:16 PM View: SSL All Data

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Sen's Slope and 95% Confidence Band

L-UMW-4D



n = 19

Slope = 0.02786 units per year.

Mann-Kendall statistic = 111
critical = 68

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Confidence band is below GWPS (6).

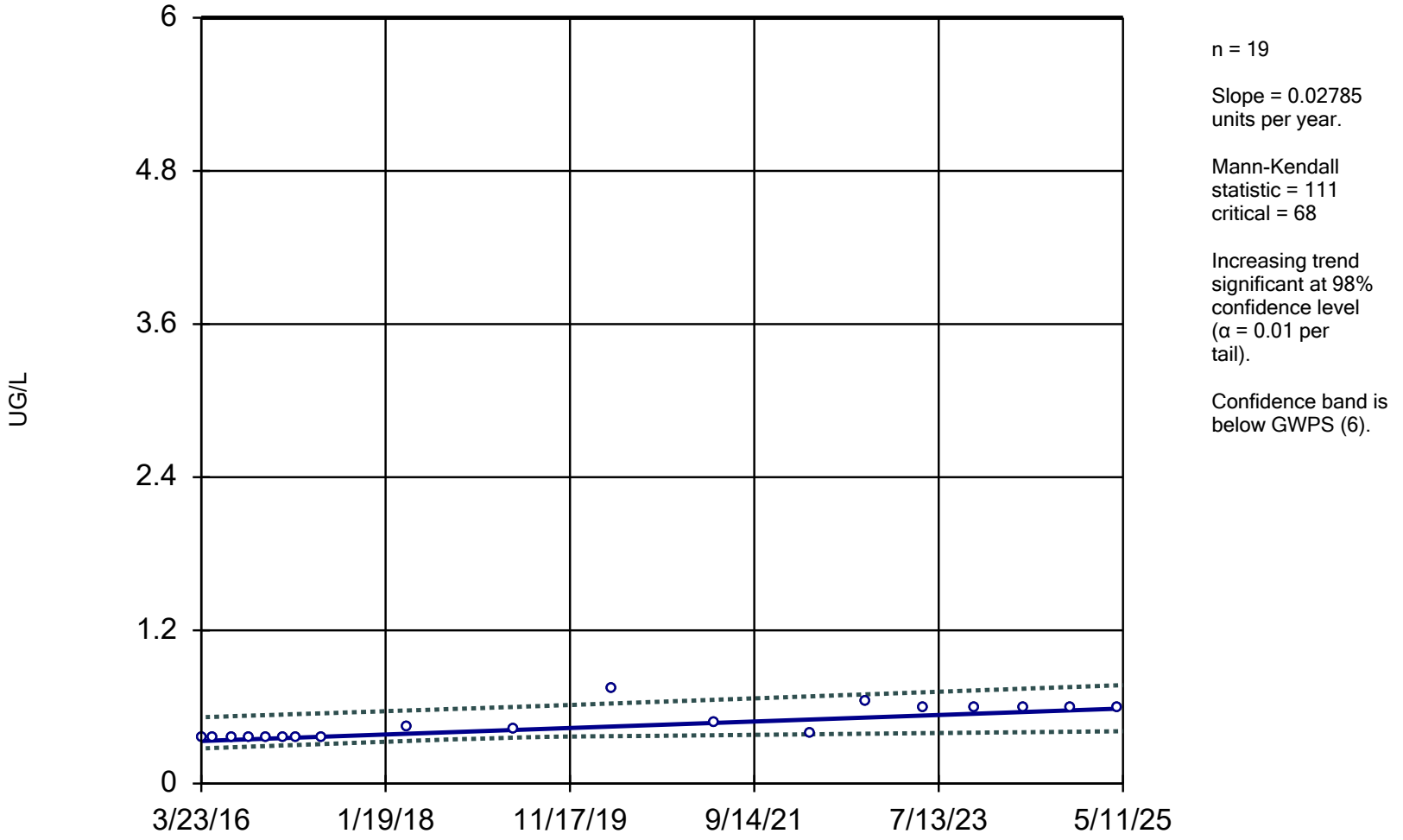
Constituent: COBALT, TOTAL Analysis Run 8/28/2025 12:16 PM View: SSL All Data

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Sen's Slope and 95% Confidence Band

L-UMW-5D



n = 19

Slope = 0.02785 units per year.

Mann-Kendall statistic = 111
critical = 68

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Confidence band is below GWPS (6).

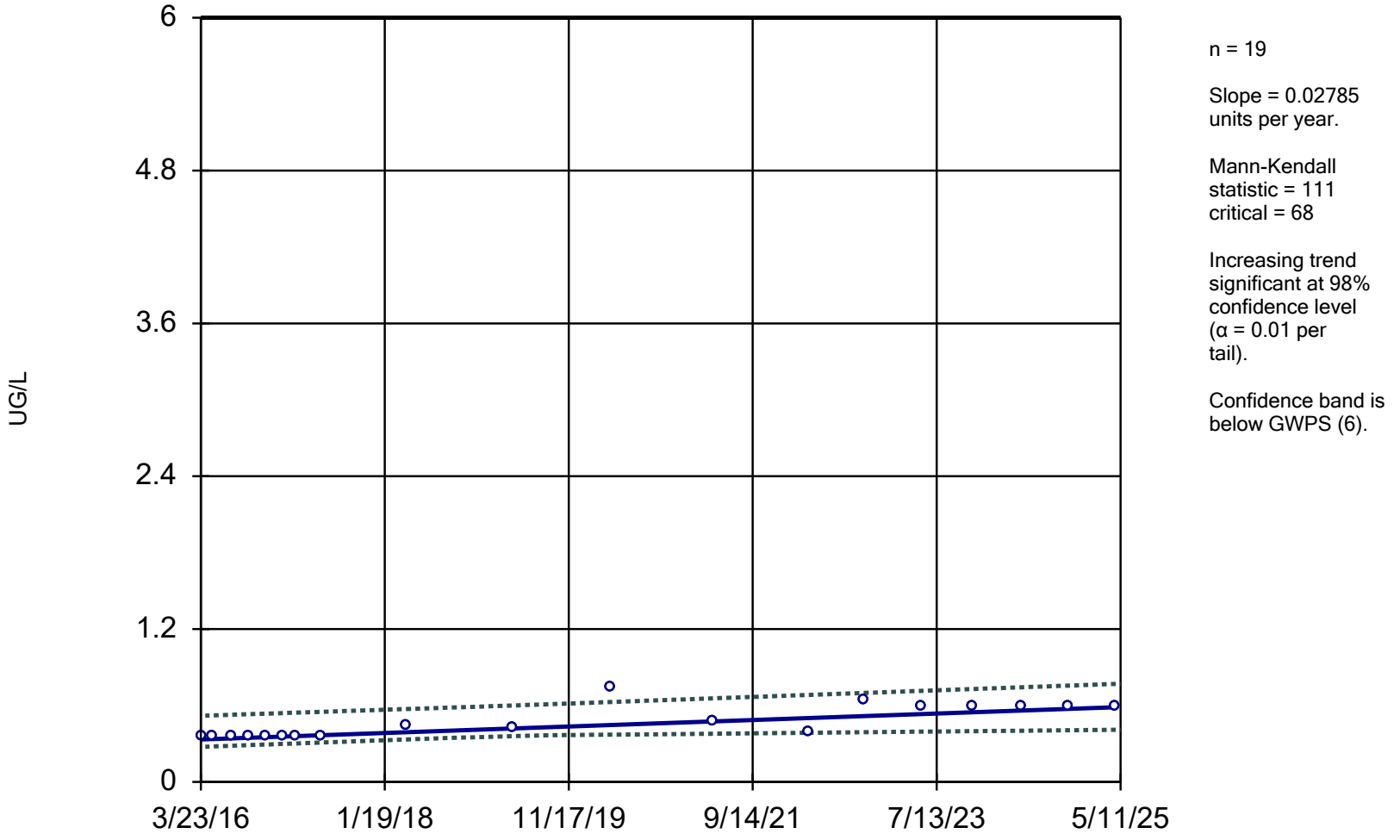
Constituent: COBALT, TOTAL Analysis Run 8/28/2025 12:16 PM View: SSL All Data

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Sen's Slope and 95% Confidence Band

L-UMW-6D



n = 19

Slope = 0.02785 units per year.

Mann-Kendall statistic = 111
critical = 68

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Confidence band is below GWPS (6).

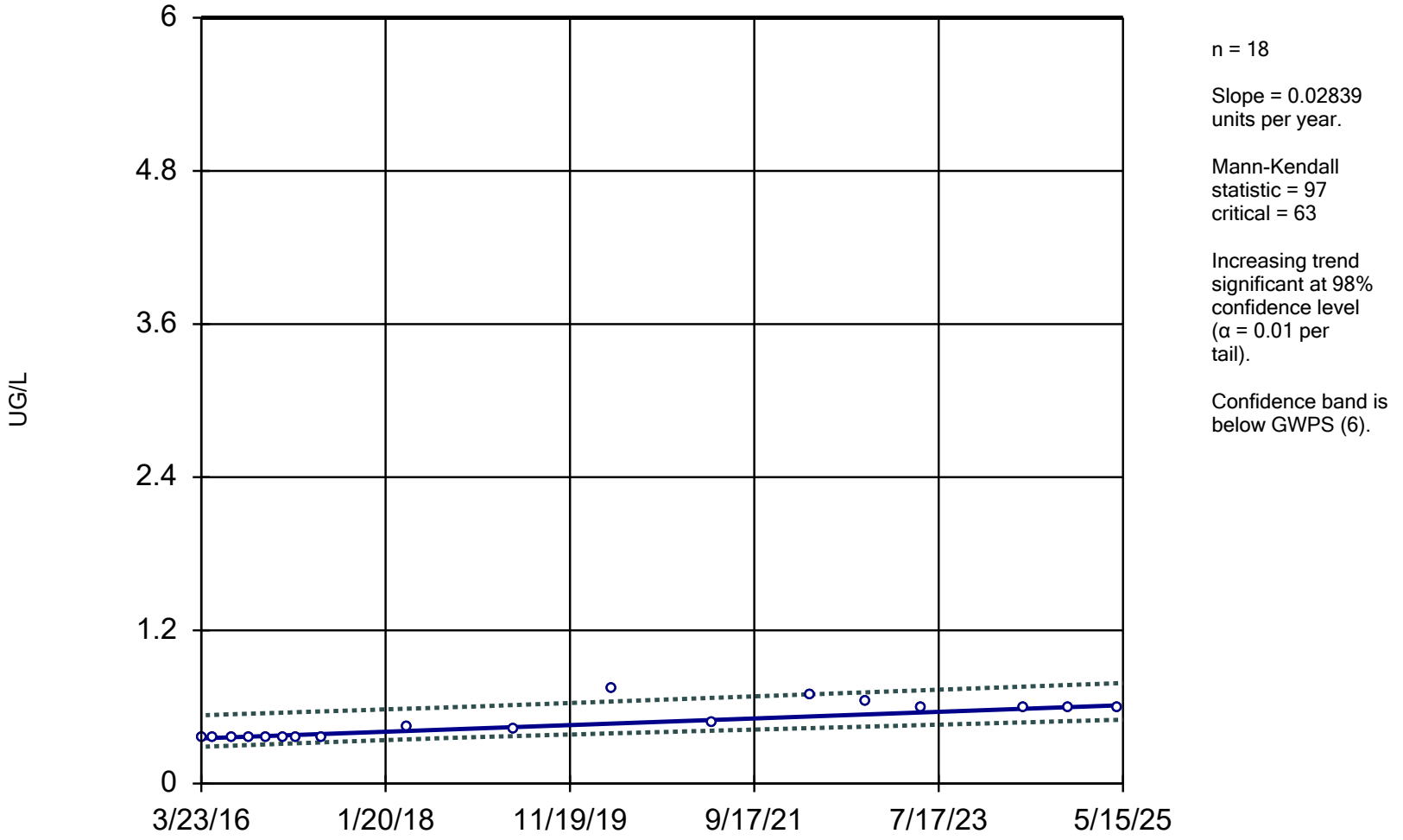
Constituent: COBALT, TOTAL Analysis Run 8/28/2025 12:16 PM View: SSL All Data

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Sen's Slope and 95% Confidence Band

L-UMW-7D



n = 18

Slope = 0.02839 units per year.

Mann-Kendall statistic = 97
critical = 63

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Confidence band is below GWPS (6).

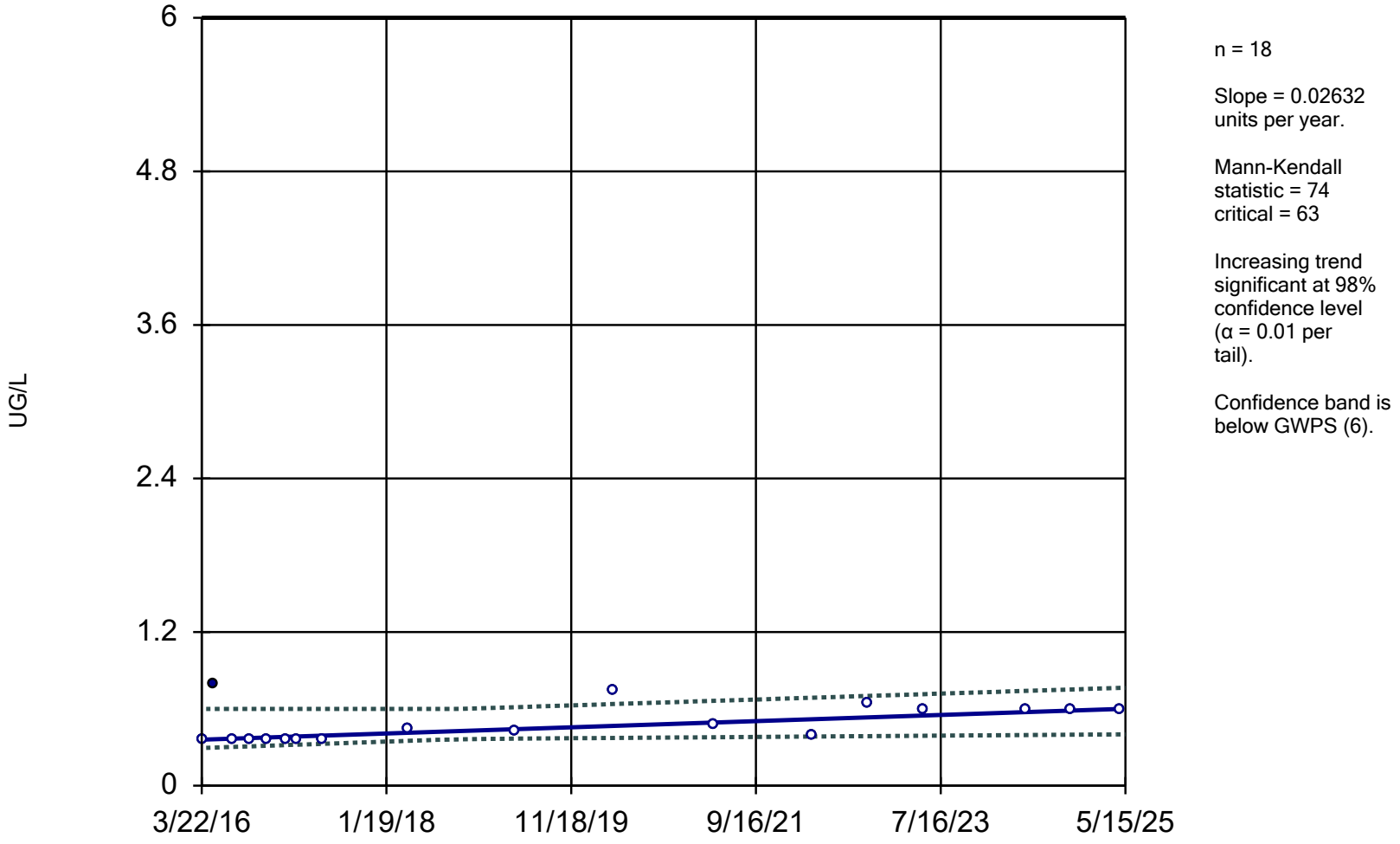
Constituent: COBALT, TOTAL Analysis Run 8/28/2025 12:16 PM View: SSL All Data

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Sen's Slope and 95% Confidence Band

L-UMW-8D



n = 18

Slope = 0.02632 units per year.

Mann-Kendall statistic = 74
critical = 63

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Confidence band is below GWPS (6).

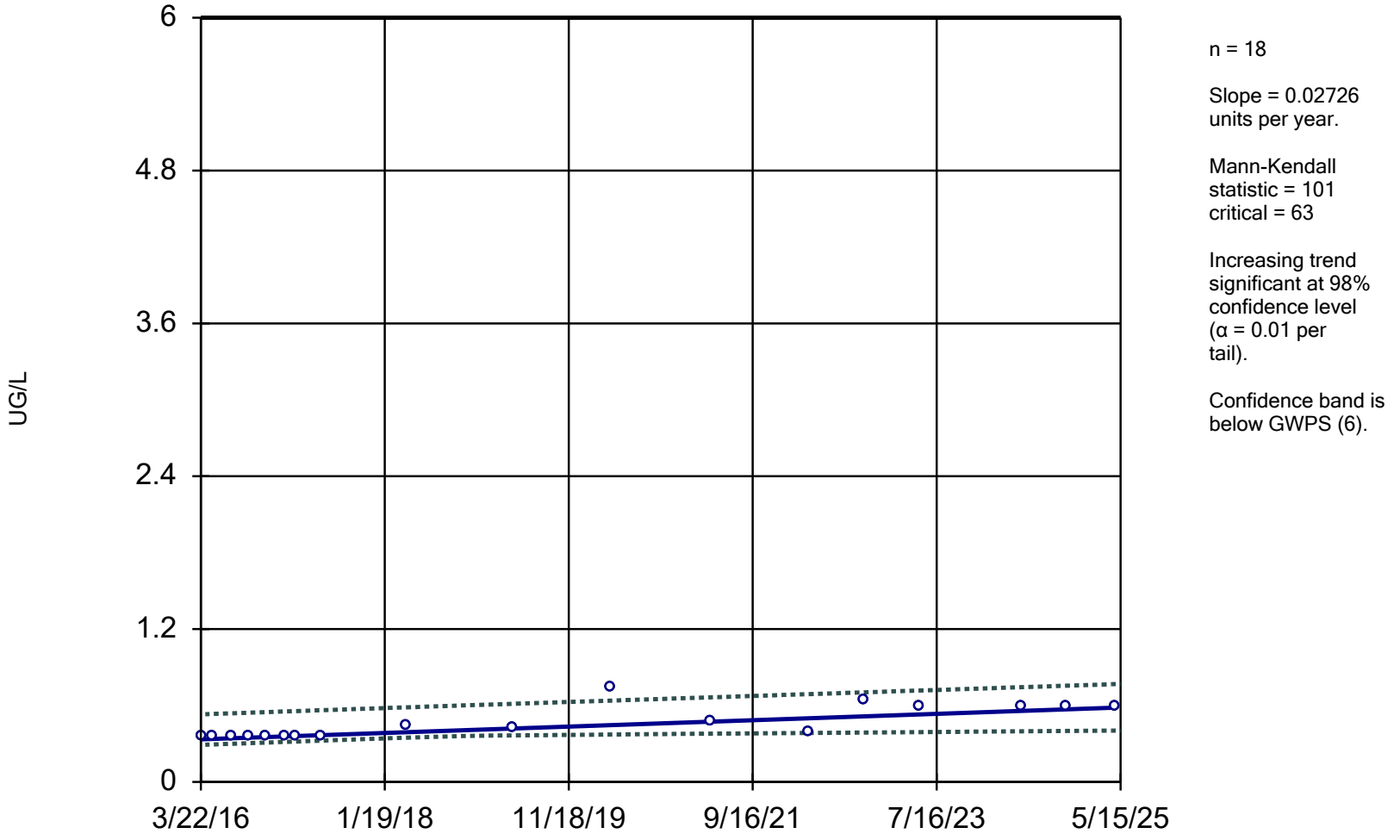
Constituent: COBALT, TOTAL Analysis Run 8/28/2025 12:16 PM View: SSL All Data

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Sen's Slope and 95% Confidence Band

L-UMW-9D



n = 18

Slope = 0.02726 units per year.

Mann-Kendall statistic = 101
critical = 63

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Confidence band is below GWPS (6).

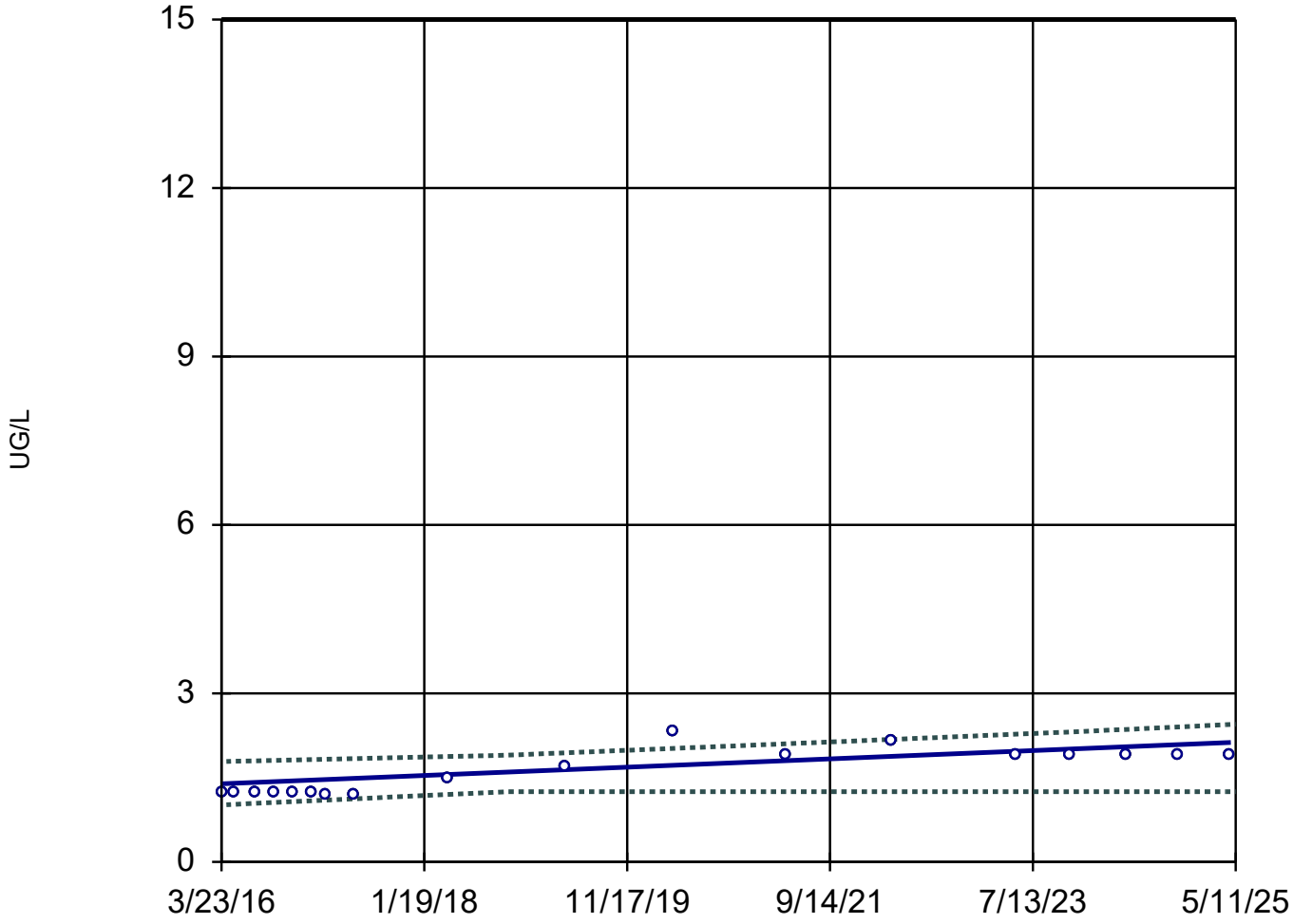
Constituent: COBALT, TOTAL Analysis Run 8/28/2025 12:16 PM View: SSL All Data

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Sen's Slope and 95% Confidence Band

L-UMW-4D



n = 18

Slope = 0.08089 units per year.

Mann-Kendall statistic = 74
critical = 63

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

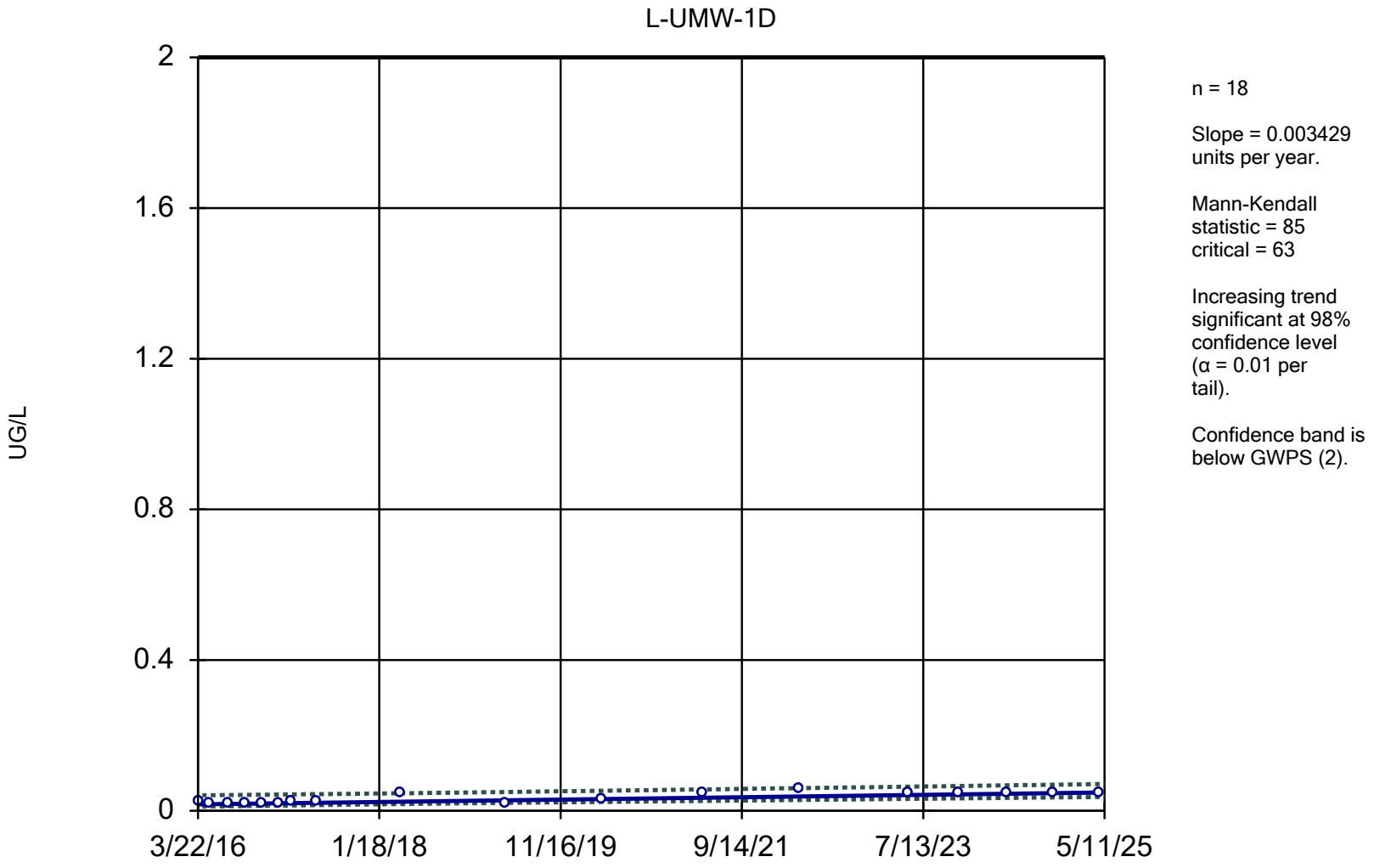
Confidence band is below GWPS (15).

Constituent: LEAD, TOTAL Analysis Run 8/28/2025 12:16 PM View: SSL All Data

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Sen's Slope and 95% Confidence Band

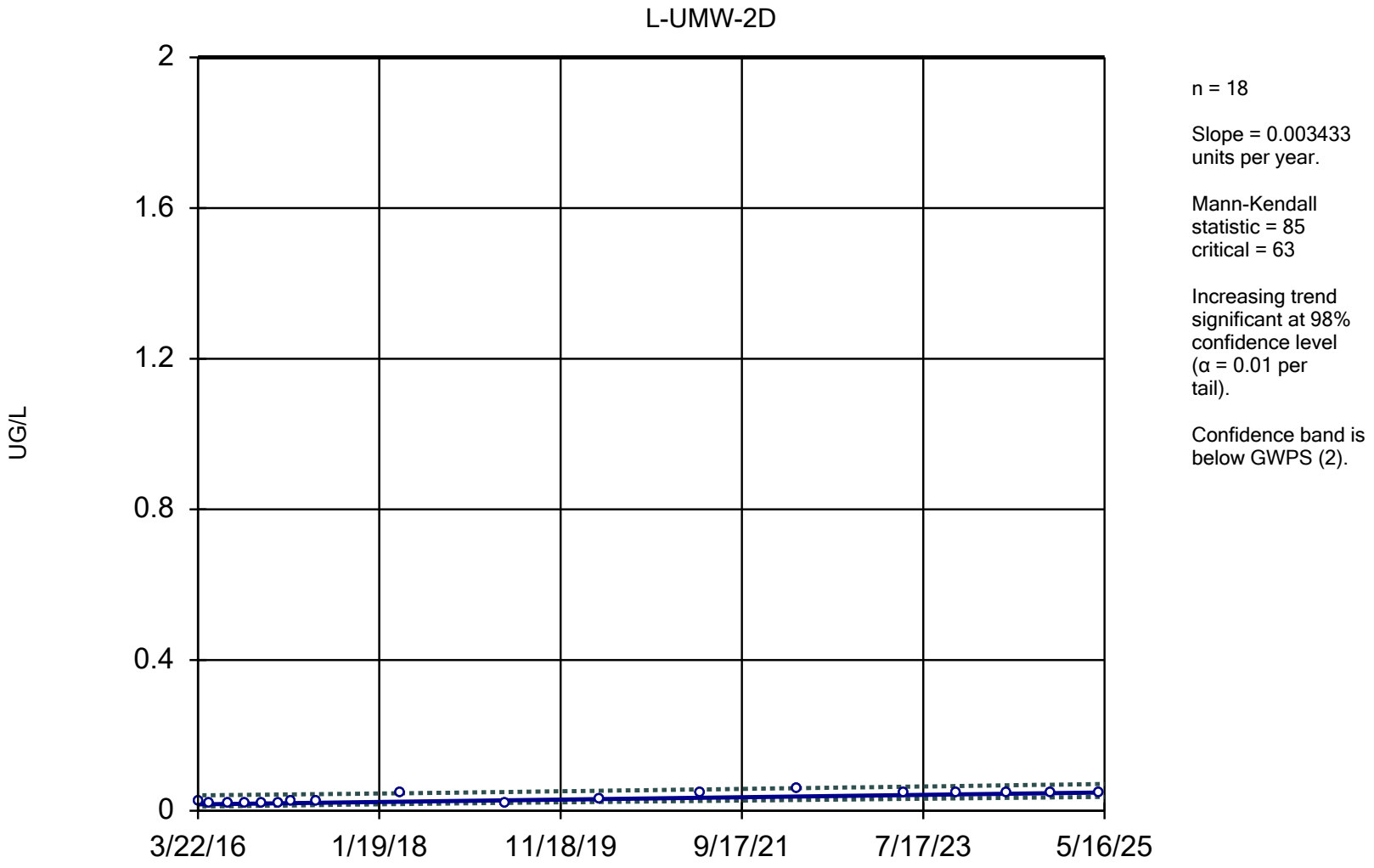


Constituent: MERCURY, TOTAL Analysis Run 8/28/2025 12:16 PM View: SSL All Data

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Sen's Slope and 95% Confidence Band



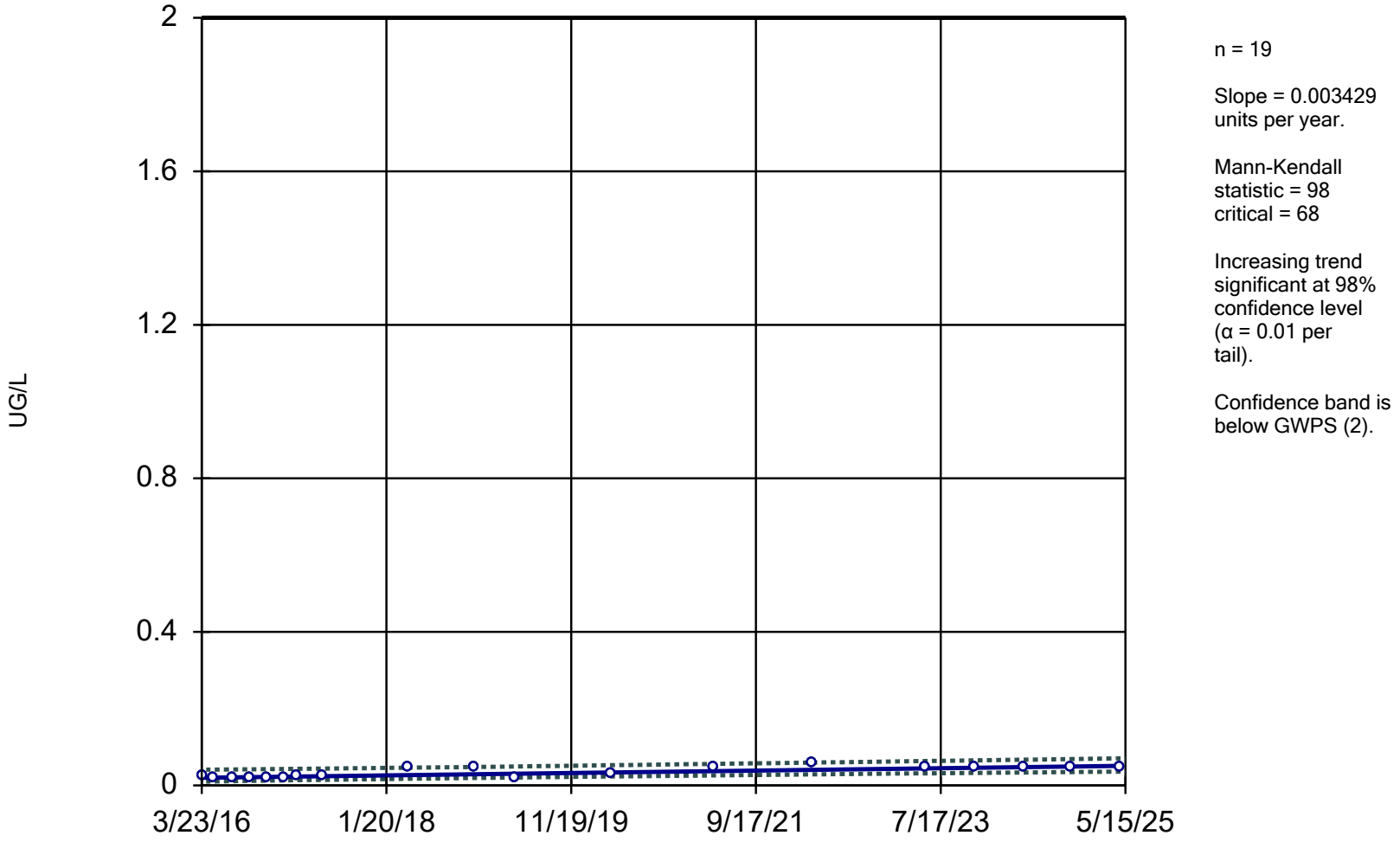
Constituent: MERCURY, TOTAL Analysis Run 8/28/2025 12:16 PM View: SSL All Data

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Sen's Slope and 95% Confidence Band

L-UMW-3D



n = 19

Slope = 0.003429 units per year.

Mann-Kendall statistic = 98
critical = 68

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

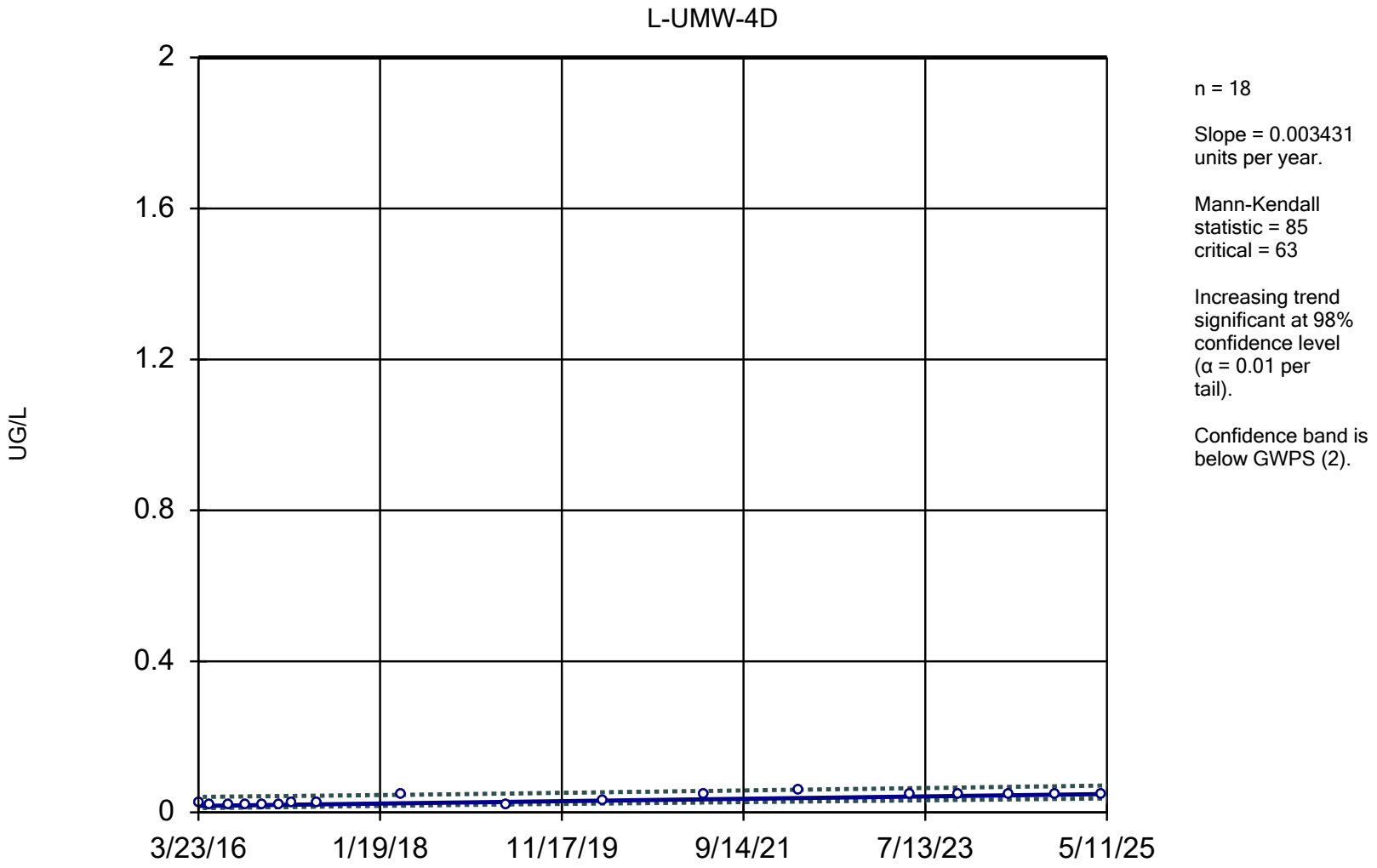
Confidence band is below GWPS (2).

Constituent: MERCURY, TOTAL Analysis Run 8/28/2025 12:16 PM View: SSL All Data

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Sen's Slope and 95% Confidence Band



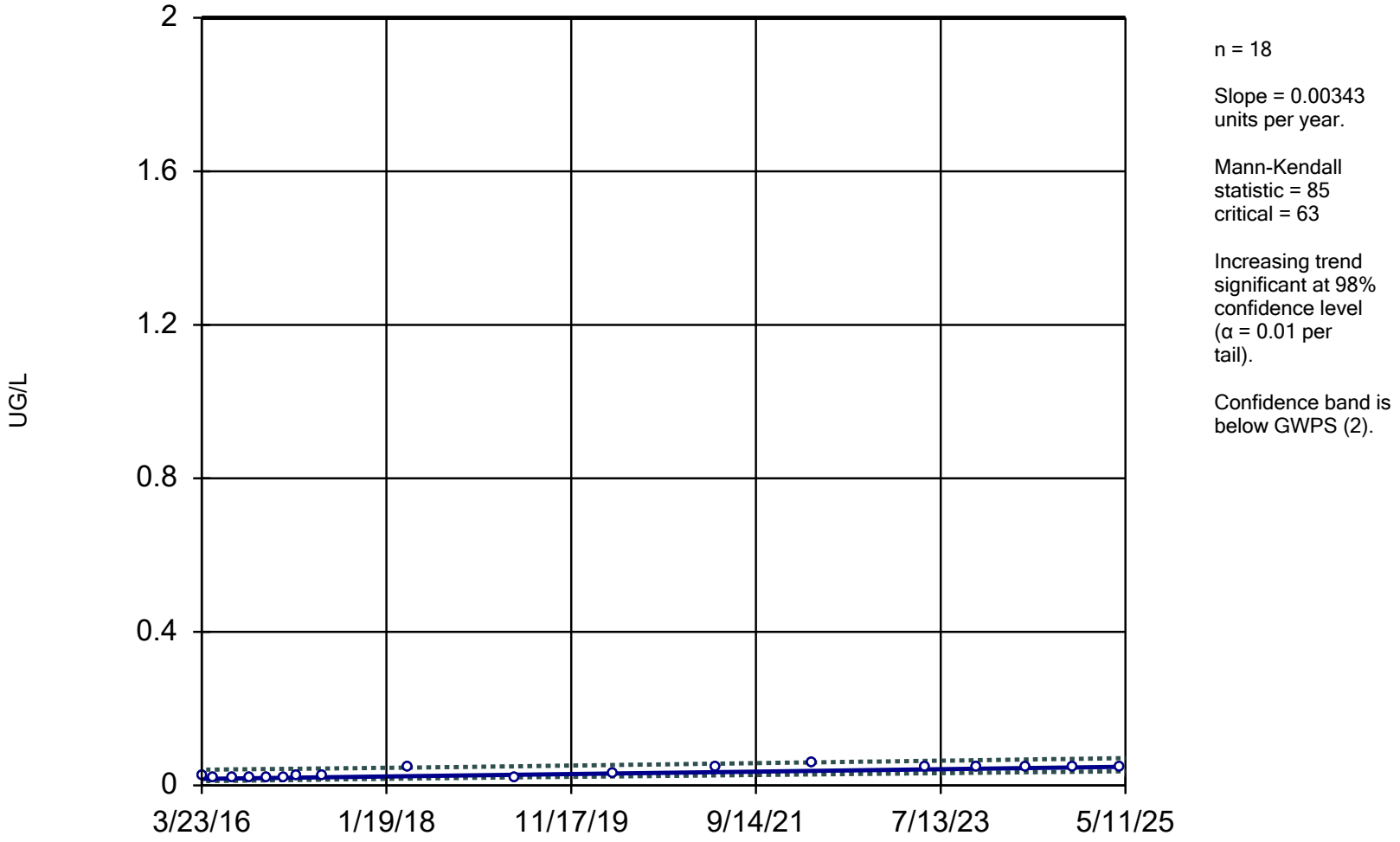
Constituent: MERCURY, TOTAL Analysis Run 8/28/2025 12:16 PM View: SSL All Data

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Sen's Slope and 95% Confidence Band

L-UMW-5D



n = 18

Slope = 0.00343 units per year.

Mann-Kendall statistic = 85
critical = 63

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Confidence band is below GWPS (2).

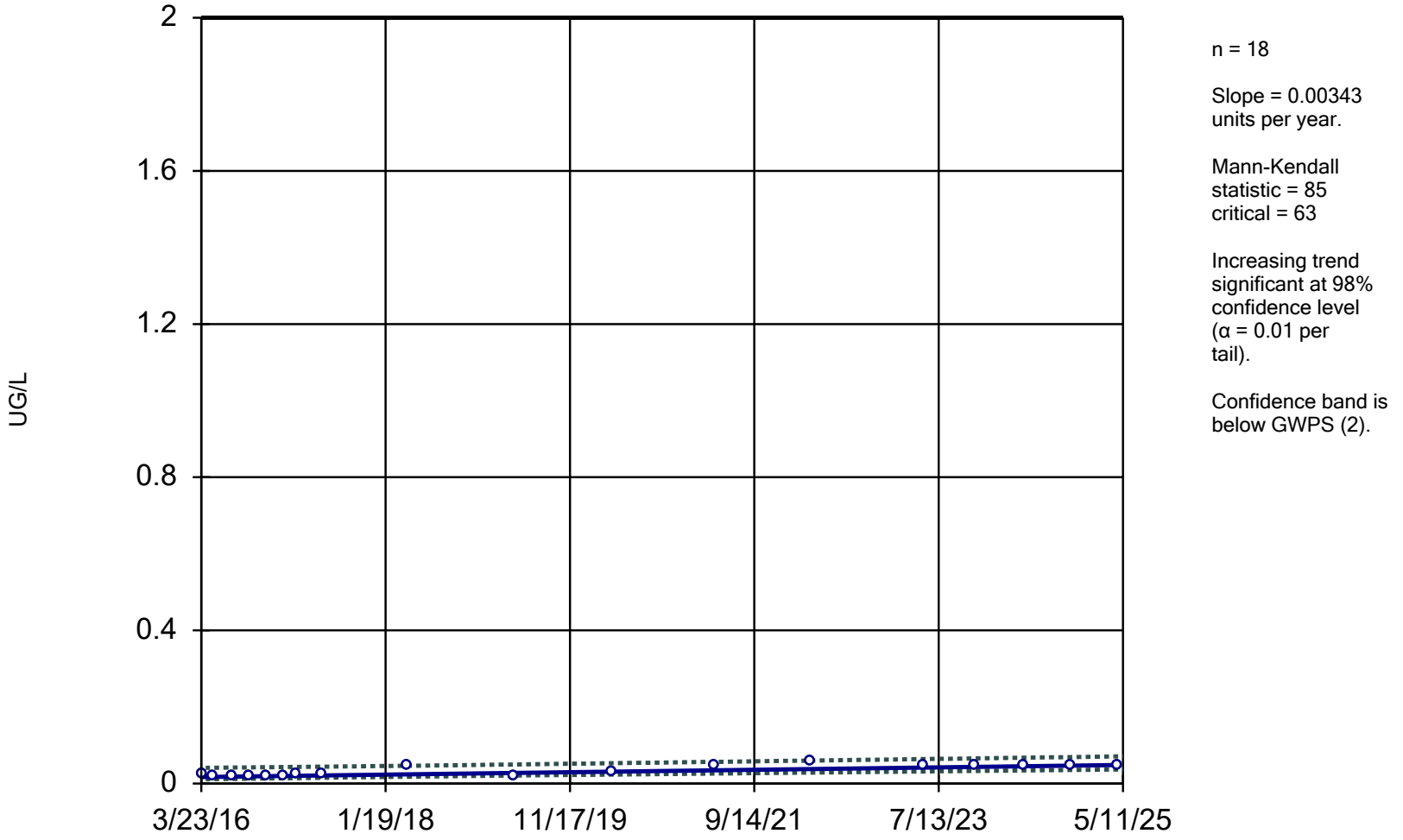
Constituent: MERCURY, TOTAL Analysis Run 8/28/2025 12:16 PM View: SSL All Data

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Sen's Slope and 95% Confidence Band

L-UMW-6D



n = 18

Slope = 0.00343 units per year.

Mann-Kendall statistic = 85
critical = 63

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Confidence band is below GWPS (2).

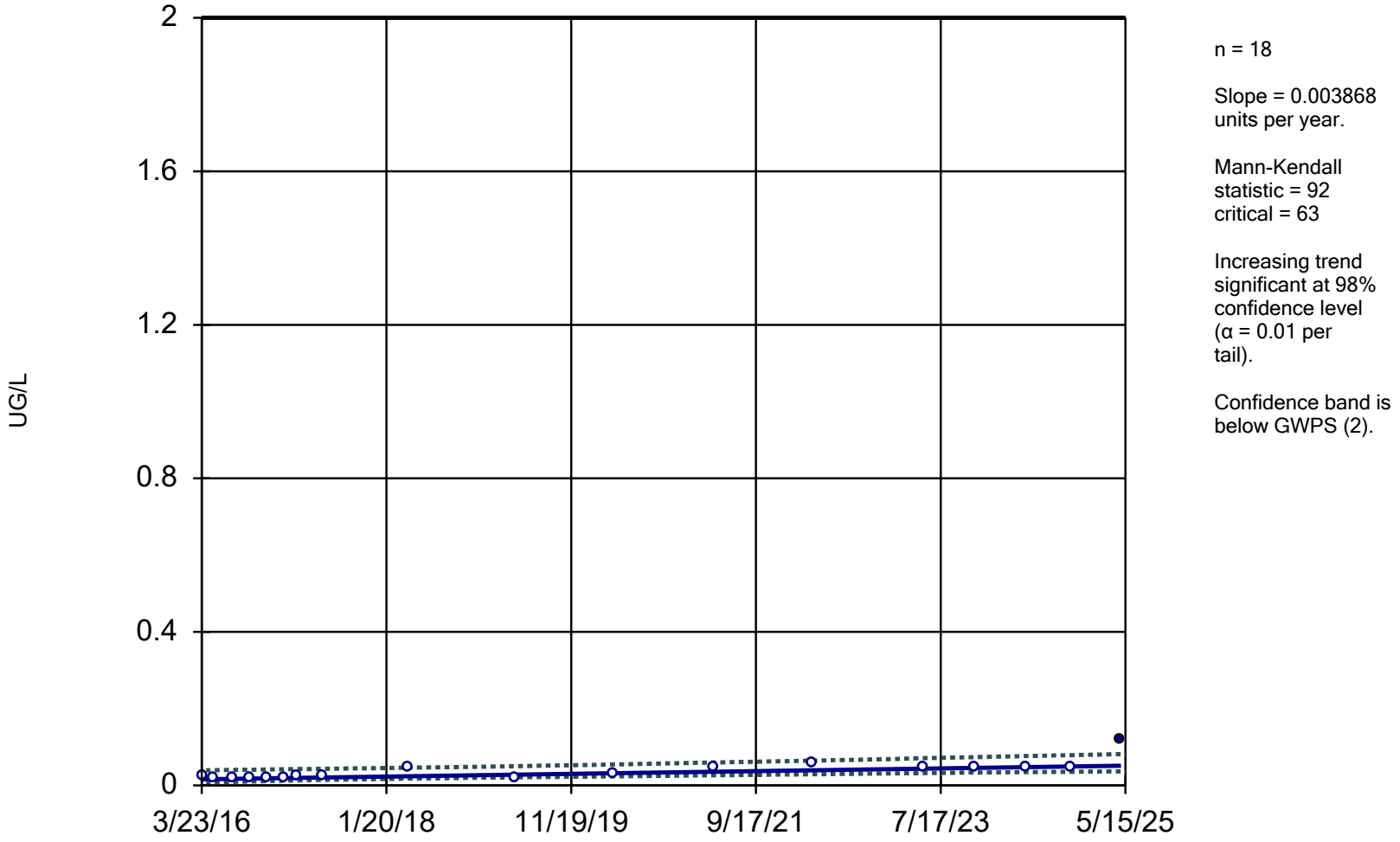
Constituent: MERCURY, TOTAL Analysis Run 8/28/2025 12:16 PM View: SSL All Data

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Sen's Slope and 95% Confidence Band

L-UMW-7D



n = 18

Slope = 0.003868 units per year.

Mann-Kendall statistic = 92
critical = 63

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

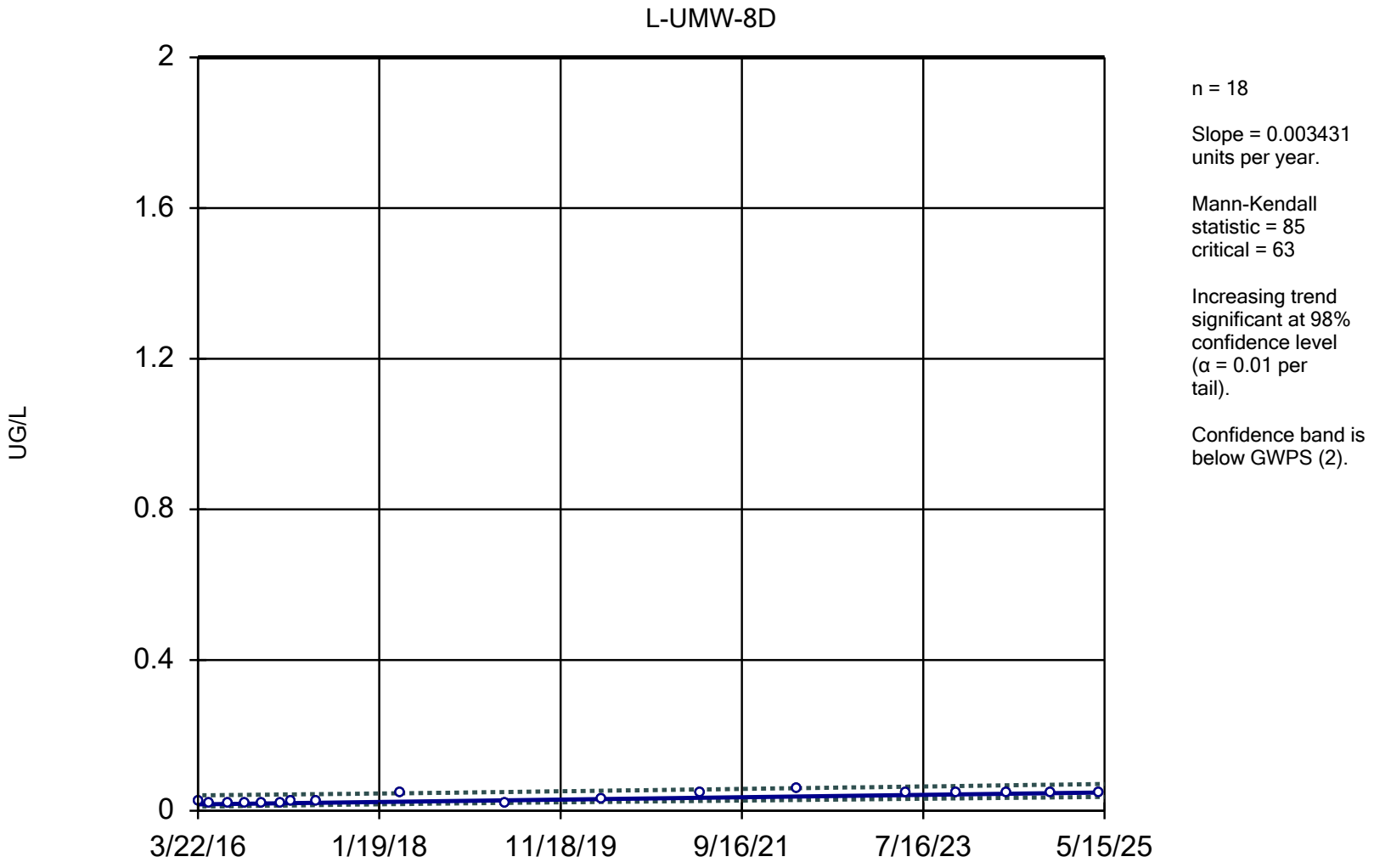
Confidence band is below GWPS (2).

Constituent: MERCURY, TOTAL Analysis Run 8/28/2025 12:16 PM View: SSL All Data

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Sen's Slope and 95% Confidence Band



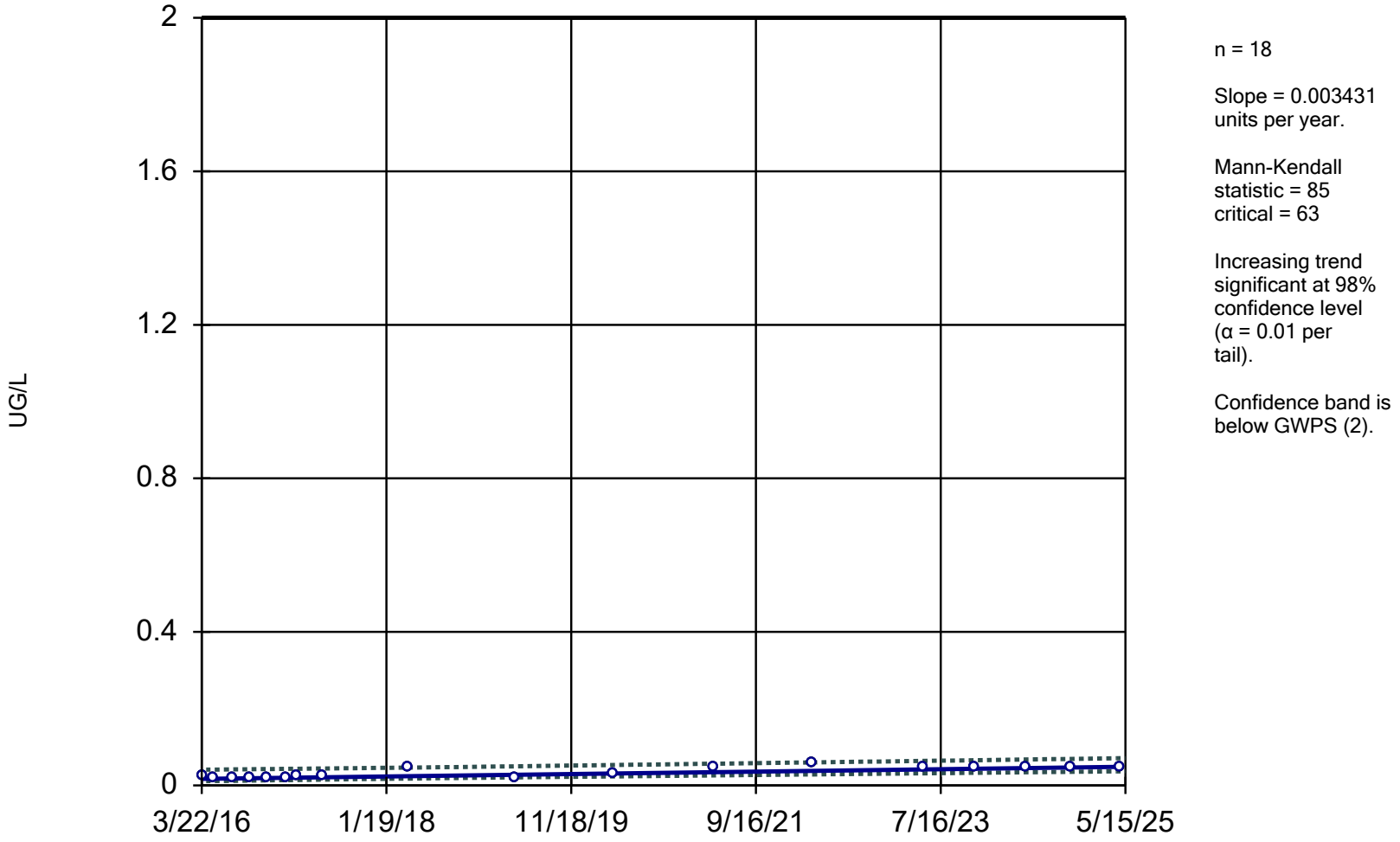
Constituent: MERCURY, TOTAL Analysis Run 8/28/2025 12:16 PM View: SSL All Data

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Sen's Slope and 95% Confidence Band

L-UMW-9D



n = 18

Slope = 0.003431 units per year.

Mann-Kendall statistic = 85
critical = 63

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Confidence band is below GWPS (2).

Constituent: MERCURY, TOTAL Analysis Run 8/28/2025 12:16 PM View: SSL All Data

Labadie E.C. Client: Ameren Data: LEC DATA 2

Trend Test

Labadie E.C. Client: Ameren Data: LEC DATA 2 Printed 8/28/2025, 12:18 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
ANTIMONY, TOTAL (UG/L)	**L-UMW-1D**	**0.003858**	**89**	**68**	**Yes**	**19**	**89.47**	**n/a**	**n/a**	**0.02**	**NP**
ANTIMONY, TOTAL (UG/L)	**L-UMW-2D**	**0.003891**	**101**	**68**	**Yes**	**19**	**100**	**n/a**	**n/a**	**0.02**	**NP**
ANTIMONY, TOTAL (UG/L)	**L-UMW-3D**	**0.003791**	**77**	**73**	**Yes**	**20**	**90**	**n/a**	**n/a**	**0.02**	**NP**
ANTIMONY, TOTAL (UG/L)	**L-UMW-4D**	**0.003803**	**82**	**68**	**Yes**	**19**	**94.74**	**n/a**	**n/a**	**0.02**	**NP**
ANTIMONY, TOTAL (UG/L)	L-UMW-5D	0	13	68	No	19	68.42	n/a	n/a	0.02	NP
ANTIMONY, TOTAL (UG/L)	**L-UMW-6D**	**0.003778**	**76**	**68**	**Yes**	**19**	**94.74**	**n/a**	**n/a**	**0.02**	**NP**
ANTIMONY, TOTAL (UG/L)	**L-UMW-7D**	**0.003894**	**101**	**68**	**Yes**	**19**	**100**	**n/a**	**n/a**	**0.02**	**NP**
ANTIMONY, TOTAL (UG/L)	**L-UMW-8D**	**0.003892**	**101**	**68**	**Yes**	**19**	**100**	**n/a**	**n/a**	**0.02**	**NP**
ANTIMONY, TOTAL (UG/L)	**L-UMW-9D**	**0.003943**	**115**	**68**	**Yes**	**19**	**94.74**	**n/a**	**n/a**	**0.02**	**NP**
ARSENIC, TOTAL (UG/L)	L-UMW-4D	-0.00179	-14	-95	No	24	37.5	n/a	n/a	0.02	NP
ARSENIC, TOTAL (UG/L)	L-UMW-5D	-0.4645	-66	-95	No	24	0	n/a	n/a	0.02	NP
ARSENIC, TOTAL (UG/L)	L-UMW-6D	0.3513	33	89	No	23	0	n/a	n/a	0.02	NP
ARSENIC, TOTAL (UG/L)	L-UMW-8D	-0.1899	-30	-95	No	24	0	n/a	n/a	0.02	NP
BARIUM, TOTAL (UG/L)	L-UMW-4D	0.814	37	95	No	24	0	n/a	n/a	0.02	NP
BARIUM, TOTAL (UG/L)	L-UMW-7D	-2.59	-41	-95	No	24	0	n/a	n/a	0.02	NP
BERYLLIUM, TOTAL (UG/L)	L-UMW-1D	-0.00...	-34	-63	No	18	88.89	n/a	n/a	0.02	NP
BERYLLIUM, TOTAL (UG/L)	L-UMW-2D	-0.00261	-41	-63	No	18	94.44	n/a	n/a	0.02	NP
BERYLLIUM, TOTAL (UG/L)	L-UMW-3D	-0.00...	-66	-68	No	19	100	n/a	n/a	0.02	NP
BERYLLIUM, TOTAL (UG/L)	L-UMW-4D	-0.00...	-37	-63	No	18	94.44	n/a	n/a	0.02	NP
BERYLLIUM, TOTAL (UG/L)	L-UMW-5D	-0.00...	-59	-63	No	18	100	n/a	n/a	0.02	NP
BERYLLIUM, TOTAL (UG/L)	L-UMW-6D	-0.00...	-59	-63	No	18	100	n/a	n/a	0.02	NP
BERYLLIUM, TOTAL (UG/L)	L-UMW-7D	-0.00...	-26	-63	No	18	83.33	n/a	n/a	0.02	NP
BERYLLIUM, TOTAL (UG/L)	L-UMW-8D	-0.00...	-46	-58	No	17	100	n/a	n/a	0.02	NP
BERYLLIUM, TOTAL (UG/L)	L-UMW-9D	0	-8	-63	No	18	88.89	n/a	n/a	0.02	NP
CADMIUM, TOTAL (UG/L)	L-UMW-1D	0.001263	55	63	No	18	100	n/a	n/a	0.02	NP
CADMIUM, TOTAL (UG/L)	L-UMW-2D	0.001265	55	63	No	18	100	n/a	n/a	0.02	NP
CADMIUM, TOTAL (UG/L)	**L-UMW-3D**	**0.01074**	**99**	**68**	**Yes**	**19**	**52.63**	**n/a**	**n/a**	**0.02**	**NP**
CADMIUM, TOTAL (UG/L)	**L-UMW-4D**	**0.01144**	**78**	**63**	**Yes**	**18**	**72.22**	**n/a**	**n/a**	**0.02**	**NP**
CADMIUM, TOTAL (UG/L)	**L-UMW-5D**	**0.02178**	**73**	**63**	**Yes**	**18**	**66.67**	**n/a**	**n/a**	**0.02**	**NP**
CADMIUM, TOTAL (UG/L)	**L-UMW-6D**	**0.01929**	**70**	**63**	**Yes**	**18**	**55.56**	**n/a**	**n/a**	**0.02**	**NP**
CADMIUM, TOTAL (UG/L)	L-UMW-7D	0.001291	43	63	No	18	83.33	n/a	n/a	0.02	NP
CADMIUM, TOTAL (UG/L)	L-UMW-8D	0.001264	55	63	No	18	100	n/a	n/a	0.02	NP
CADMIUM, TOTAL (UG/L)	L-UMW-9D	0.001264	55	63	No	18	100	n/a	n/a	0.02	NP
CHROMIUM, TOTAL (UG/L)	L-UMW-1D	0.01958	56	68	No	19	47.37	n/a	n/a	0.02	NP
CHROMIUM, TOTAL (UG/L)	L-UMW-2D	0.01547	33	73	No	20	55	n/a	n/a	0.02	NP
CHROMIUM, TOTAL (UG/L)	L-UMW-3D	0.01601	46	78	No	21	66.67	n/a	n/a	0.02	NP
CHROMIUM, TOTAL (UG/L)	L-UMW-4D	0	9	68	No	19	63.16	n/a	n/a	0.02	NP
CHROMIUM, TOTAL (UG/L)	L-UMW-5D	0	4	73	No	20	70	n/a	n/a	0.02	NP
CHROMIUM, TOTAL (UG/L)	L-UMW-6D	-0.00...	-12	-73	No	20	60	n/a	n/a	0.02	NP
CHROMIUM, TOTAL (UG/L)	L-UMW-7D	-0.00...	-17	-73	No	20	50	n/a	n/a	0.02	NP
CHROMIUM, TOTAL (UG/L)	L-UMW-8D	0	2	73	No	20	65	n/a	n/a	0.02	NP
COBALT, TOTAL (UG/L)	**L-UMW-1D**	**0.0284**	**101**	**63**	**Yes**	**18**	**100**	**n/a**	**n/a**	**0.02**	**NP**
COBALT, TOTAL (UG/L)	**L-UMW-2D**	**0.02792**	**111**	**68**	**Yes**	**19**	**100**	**n/a**	**n/a**	**0.02**	**NP**
COBALT, TOTAL (UG/L)	**L-UMW-3D**	**0.02834**	**125**	**73**	**Yes**	**20**	**100**	**n/a**	**n/a**	**0.02**	**NP**
COBALT, TOTAL (UG/L)	**L-UMW-4D**	**0.02786**	**111**	**68**	**Yes**	**19**	**100**	**n/a**	**n/a**	**0.02**	**NP**
COBALT, TOTAL (UG/L)	**L-UMW-5D**	**0.02785**	**111**	**68**	**Yes**	**19**	**100**	**n/a**	**n/a**	**0.02**	**NP**
COBALT, TOTAL (UG/L)	**L-UMW-6D**	**0.02785**	**111**	**68**	**Yes**	**19**	**100**	**n/a**	**n/a**	**0.02**	**NP**
COBALT, TOTAL (UG/L)	**L-UMW-7D**	**0.02839**	**97**	**63**	**Yes**	**18**	**100**	**n/a**	**n/a**	**0.02**	**NP**
COBALT, TOTAL (UG/L)	**L-UMW-8D**	**0.02632**	**74**	**63**	**Yes**	**18**	**94.44**	**n/a**	**n/a**	**0.02**	**NP**
COBALT, TOTAL (UG/L)	**L-UMW-9D**	**0.02726**	**101**	**63**	**Yes**	**18**	**100**	**n/a**	**n/a**	**0.02**	**NP**

Trend Test

Labadie E.C. Client: Ameren Data: LEC DATA 2 Printed 8/28/2025, 12:18 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
FLUORIDE, TOTAL (MG/L)	L-UMW-1D	0	-6	-119	No	28	17.86	n/a	n/a	0.02	NP
FLUORIDE, TOTAL (MG/L)	L-UMW-3D	-0.00...	-68	-125	No	29	41.38	n/a	n/a	0.02	NP
FLUORIDE, TOTAL (MG/L)	L-UMW-8D	0.004403	54	112	No	27	11.11	n/a	n/a	0.02	NP
FLUORIDE, TOTAL (MG/L)	L-UMW-9D	0	2	101	No	25	20	n/a	n/a	0.02	NP
LEAD, TOTAL (UG/L)	L-UMW-1D	0	10	63	No	18	77.78	n/a	n/a	0.02	NP
LEAD, TOTAL (UG/L)	L-UMW-2D	0.07656	42	63	No	18	83.33	n/a	n/a	0.02	NP
LEAD, TOTAL (UG/L)	L-UMW-3D	0.07975	54	68	No	19	84.21	n/a	n/a	0.02	NP
LEAD, TOTAL (UG/L)	**L-UMW-4D**	**0.08089**	**74**	**63**	**Yes**	**18**	**100**	**n/a**	**n/a**	**0.02**	**NP**
LEAD, TOTAL (UG/L)	L-UMW-5D	0.06088	35	63	No	18	88.89	n/a	n/a	0.02	NP
LEAD, TOTAL (UG/L)	L-UMW-6D	0.06088	35	63	No	18	88.89	n/a	n/a	0.02	NP
LEAD, TOTAL (UG/L)	L-UMW-7D	0.07305	47	58	No	17	88.24	n/a	n/a	0.02	NP
LEAD, TOTAL (UG/L)	L-UMW-8D	0.07546	47	63	No	18	83.33	n/a	n/a	0.02	NP
LEAD, TOTAL (UG/L)	L-UMW-9D	-0.02098	-14	-58	No	17	70.59	n/a	n/a	0.02	NP
LITHIUM, TOTAL (UG/L)	L-UMW-3D	-0.3328	-70	-101	No	25	0	n/a	n/a	0.02	NP
LITHIUM, TOTAL (UG/L)	L-UMW-5D	0.3423	34	95	No	24	0	n/a	n/a	0.02	NP
LITHIUM, TOTAL (UG/L)	L-UMW-9D	0.2333	61	95	No	24	0	n/a	n/a	0.02	NP
MERCURY, TOTAL (UG/L)	**L-UMW-1D**	**0.003429**	**85**	**63**	**Yes**	**18**	**100**	**n/a**	**n/a**	**0.02**	**NP**
MERCURY, TOTAL (UG/L)	**L-UMW-2D**	**0.003433**	**85**	**63**	**Yes**	**18**	**100**	**n/a**	**n/a**	**0.02**	**NP**
MERCURY, TOTAL (UG/L)	**L-UMW-3D**	**0.003429**	**98**	**68**	**Yes**	**19**	**100**	**n/a**	**n/a**	**0.02**	**NP**
MERCURY, TOTAL (UG/L)	**L-UMW-4D**	**0.003431**	**85**	**63**	**Yes**	**18**	**100**	**n/a**	**n/a**	**0.02**	**NP**
MERCURY, TOTAL (UG/L)	**L-UMW-5D**	**0.00343**	**85**	**63**	**Yes**	**18**	**100**	**n/a**	**n/a**	**0.02**	**NP**
MERCURY, TOTAL (UG/L)	**L-UMW-6D**	**0.00343**	**85**	**63**	**Yes**	**18**	**100**	**n/a**	**n/a**	**0.02**	**NP**
MERCURY, TOTAL (UG/L)	**L-UMW-7D**	**0.003868**	**92**	**63**	**Yes**	**18**	**94.44**	**n/a**	**n/a**	**0.02**	**NP**
MERCURY, TOTAL (UG/L)	**L-UMW-8D**	**0.003431**	**85**	**63**	**Yes**	**18**	**100**	**n/a**	**n/a**	**0.02**	**NP**
MERCURY, TOTAL (UG/L)	**L-UMW-9D**	**0.003431**	**85**	**63**	**Yes**	**18**	**100**	**n/a**	**n/a**	**0.02**	**NP**
MOLYBDENUM, TOTAL (UG/L)	L-UMW-1D	0.213	89	95	No	24	20.83	n/a	n/a	0.02	NP
MOLYBDENUM, TOTAL (UG/L)	L-UMW-8D	0.18	23	84	No	22	0	n/a	n/a	0.02	NP
MOLYBDENUM, TOTAL (UG/L)	L-UMW-9D	-0.00...	-15	-95	No	24	41.67	n/a	n/a	0.02	NP
Radium [226 + 228] (PCI/L)	L-UMW-1D	0	2	89	No	23	21.74	n/a	n/a	0.02	NP
Radium [226 + 228] (PCI/L)	L-UMW-2D	0.005814	4	95	No	24	33.33	n/a	n/a	0.02	NP
Radium [226 + 228] (PCI/L)	L-UMW-3D	0.01433	25	101	No	25	76	n/a	n/a	0.02	NP
Radium [226 + 228] (PCI/L)	L-UMW-4D	0.02831	64	95	No	24	75	n/a	n/a	0.02	NP
Radium [226 + 228] (PCI/L)	L-UMW-5D	0.01881	41	89	No	23	91.3	n/a	n/a	0.02	NP
Radium [226 + 228] (PCI/L)	L-UMW-6D	-0.00...	-4	-95	No	24	62.5	n/a	n/a	0.02	NP
Radium [226 + 228] (PCI/L)	L-UMW-7D	0.02153	40	95	No	24	75	n/a	n/a	0.02	NP
Radium [226 + 228] (PCI/L)	L-UMW-9D	-0.00...	-16	-95	No	24	91.67	n/a	n/a	0.02	NP
SELENIUM, TOTAL (UG/L)	L-UMW-1D	0	13	78	No	21	95.24	n/a	n/a	0.02	NP
SELENIUM, TOTAL (UG/L)	L-UMW-2D	0	13	78	No	21	95.24	n/a	n/a	0.02	NP
SELENIUM, TOTAL (UG/L)	L-UMW-3D	0	24	84	No	22	54.55	n/a	n/a	0.02	NP
SELENIUM, TOTAL (UG/L)	L-UMW-4D	0	23	78	No	21	95.24	n/a	n/a	0.02	NP
SELENIUM, TOTAL (UG/L)	L-UMW-5D	0	42	78	No	21	61.9	n/a	n/a	0.02	NP
SELENIUM, TOTAL (UG/L)	L-UMW-6D	-0.00...	-38	-78	No	21	33.33	n/a	n/a	0.02	NP
SELENIUM, TOTAL (UG/L)	L-UMW-7D	0	11	78	No	21	85.71	n/a	n/a	0.02	NP
SELENIUM, TOTAL (UG/L)	L-UMW-8D	0	19	78	No	21	95.24	n/a	n/a	0.02	NP
SELENIUM, TOTAL (UG/L)	L-UMW-9D	0	17	78	No	21	100	n/a	n/a	0.02	NP
THALLIUM, TOTAL (UG/L)	L-UMW-1D	-0.00...	-51	-63	No	18	88.89	n/a	n/a	0.02	NP
THALLIUM, TOTAL (UG/L)	L-UMW-2D	-0.00195	-33	-63	No	18	100	n/a	n/a	0.02	NP
THALLIUM, TOTAL (UG/L)	L-UMW-3D	-0.00...	-32	-68	No	19	100	n/a	n/a	0.02	NP
THALLIUM, TOTAL (UG/L)	L-UMW-4D	-0.00...	-33	-63	No	18	100	n/a	n/a	0.02	NP
THALLIUM, TOTAL (UG/L)	L-UMW-5D	-0.00...	-33	-63	No	18	100	n/a	n/a	0.02	NP

Trend Test

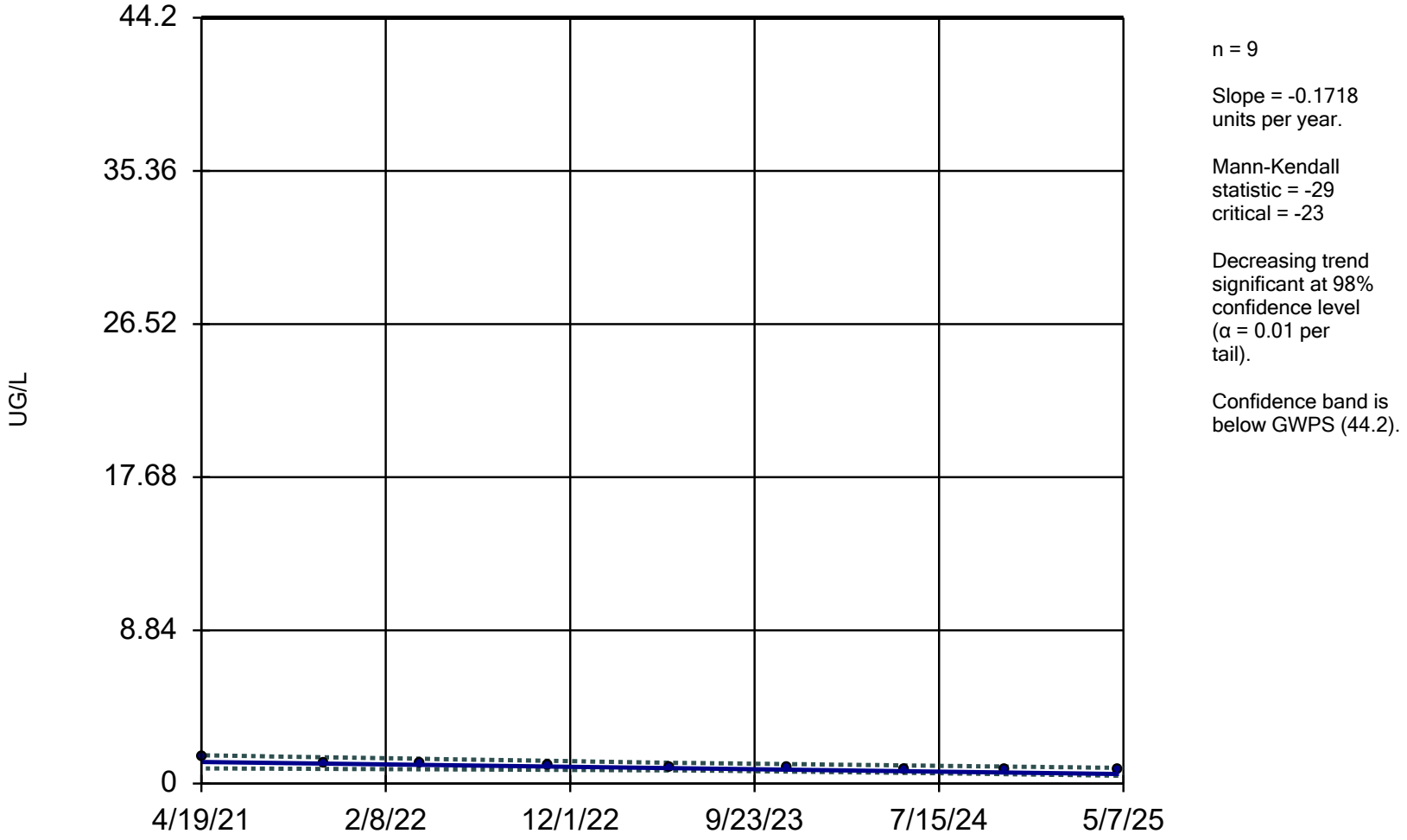
Labadie E.C. Client: Ameren Data: LEC DATA 2 Printed 8/28/2025, 12:18 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
THALLIUM, TOTAL (UG/L)	L-UMW-6D	-0.00...	-51	-63	No	18	94.44	n/a	n/a	0.02	NP
THALLIUM, TOTAL (UG/L)	L-UMW-7D	-0.00...	-33	-63	No	18	100	n/a	n/a	0.02	NP
THALLIUM, TOTAL (UG/L)	L-UMW-8D	-0.00...	-33	-63	No	18	100	n/a	n/a	0.02	NP
THALLIUM, TOTAL (UG/L)	L-UMW-9D	-0.00...	-33	-63	No	18	100	n/a	n/a	0.02	NP

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG

Sen's Slope and 95% Confidence Band

L-UMW-2D



n = 9

Slope = -0.1718 units per year.

Mann-Kendall statistic = -29
critical = -23

Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

Confidence band is below GWPS (44.2).

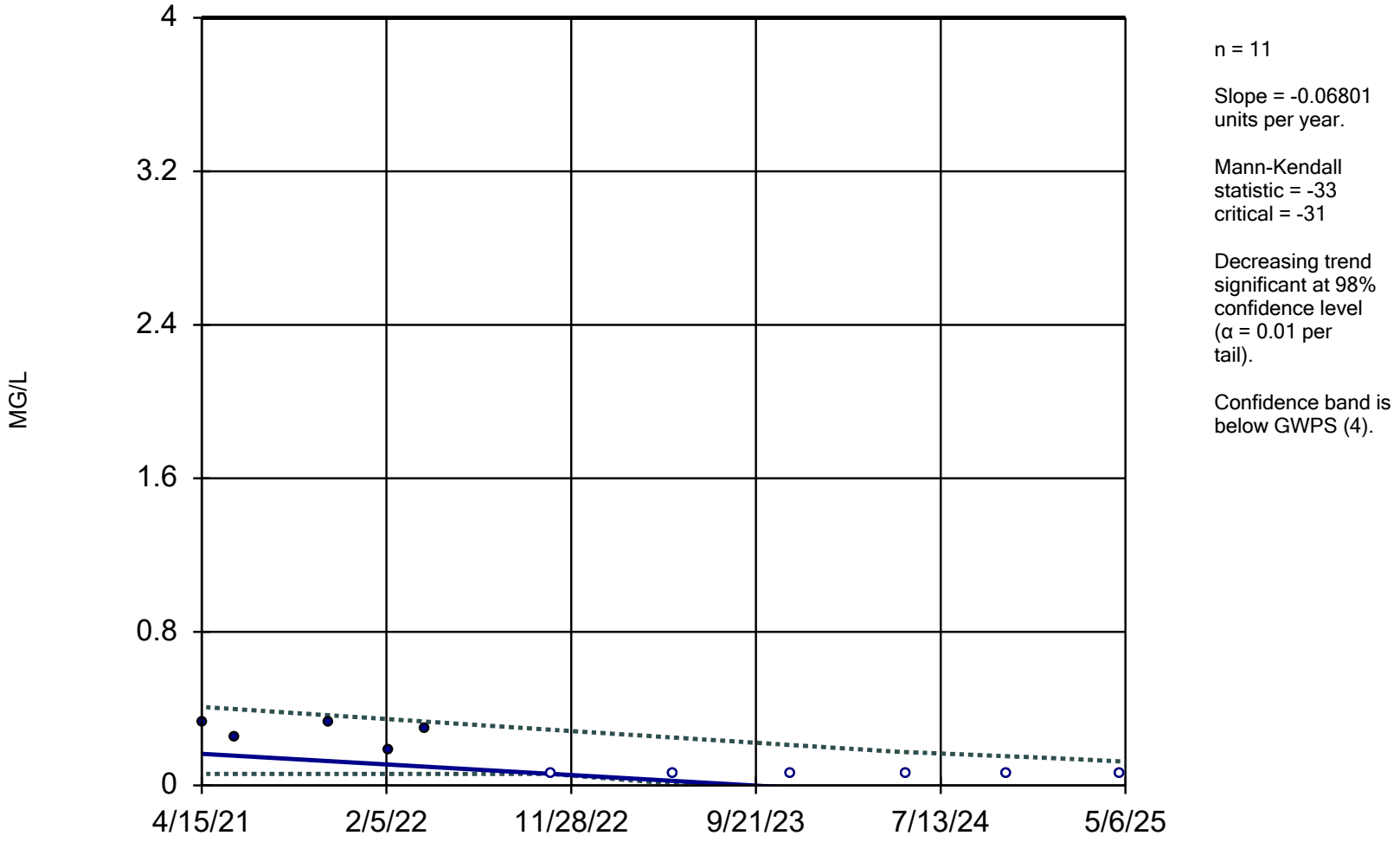
Constituent: ARSENIC, TOTAL Analysis Run 8/28/2025 1:47 PM View: SSL Post Closure

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Sen's Slope and 95% Confidence Band

L-UMW-7D



n = 11

Slope = -0.06801 units per year.

Mann-Kendall statistic = -33
critical = -31

Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

Confidence band is below GWPS (4).

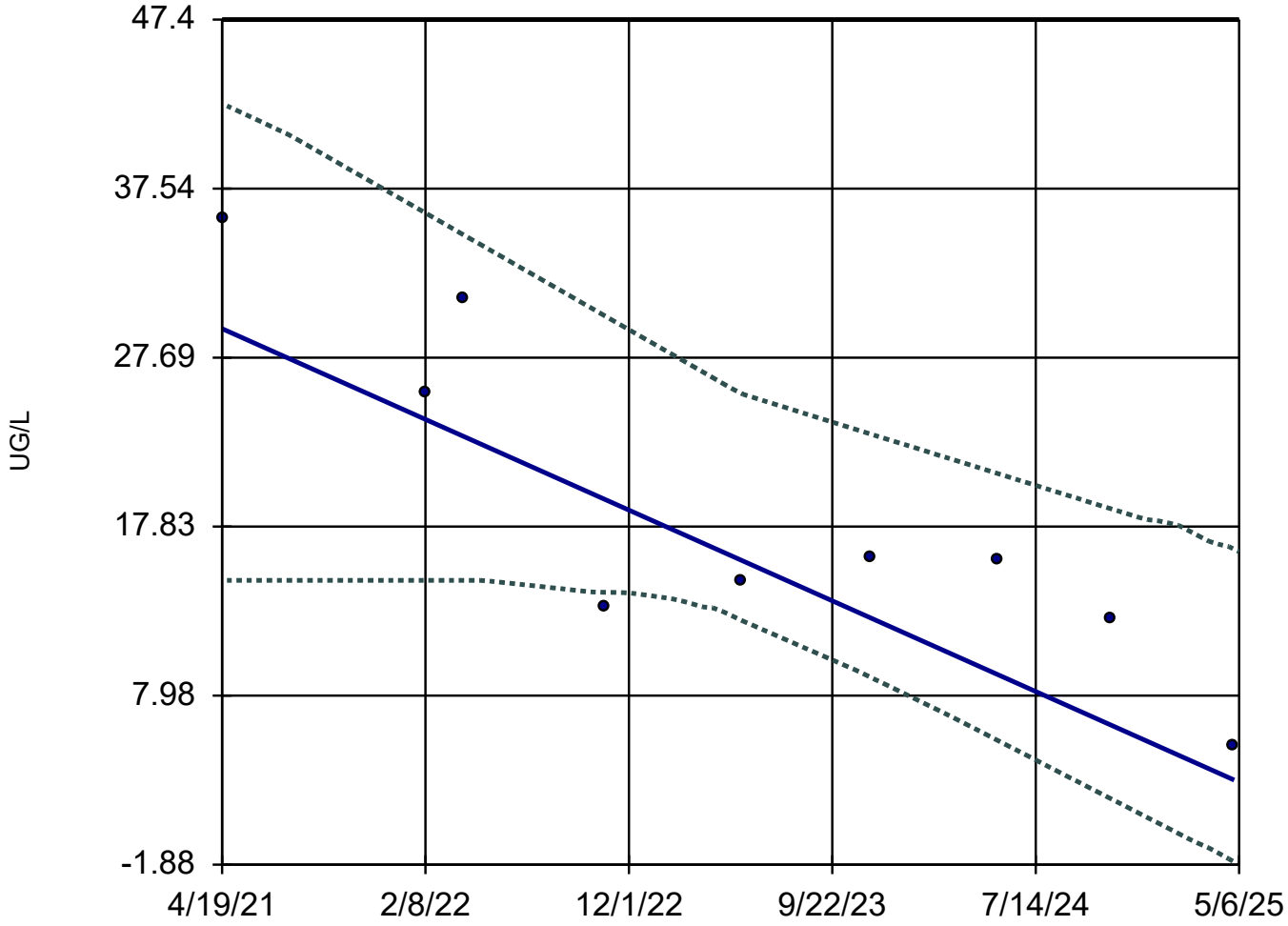
Constituent: FLUORIDE, TOTAL Analysis Run 8/28/2025 1:48 PM View: SSL Post Closure

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG

Sen's Slope and 95% Confidence Band

L-UMW-8D



n = 9

Slope = -6.53 units per year.

Mann-Kendall statistic = -24
critical = -23

Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

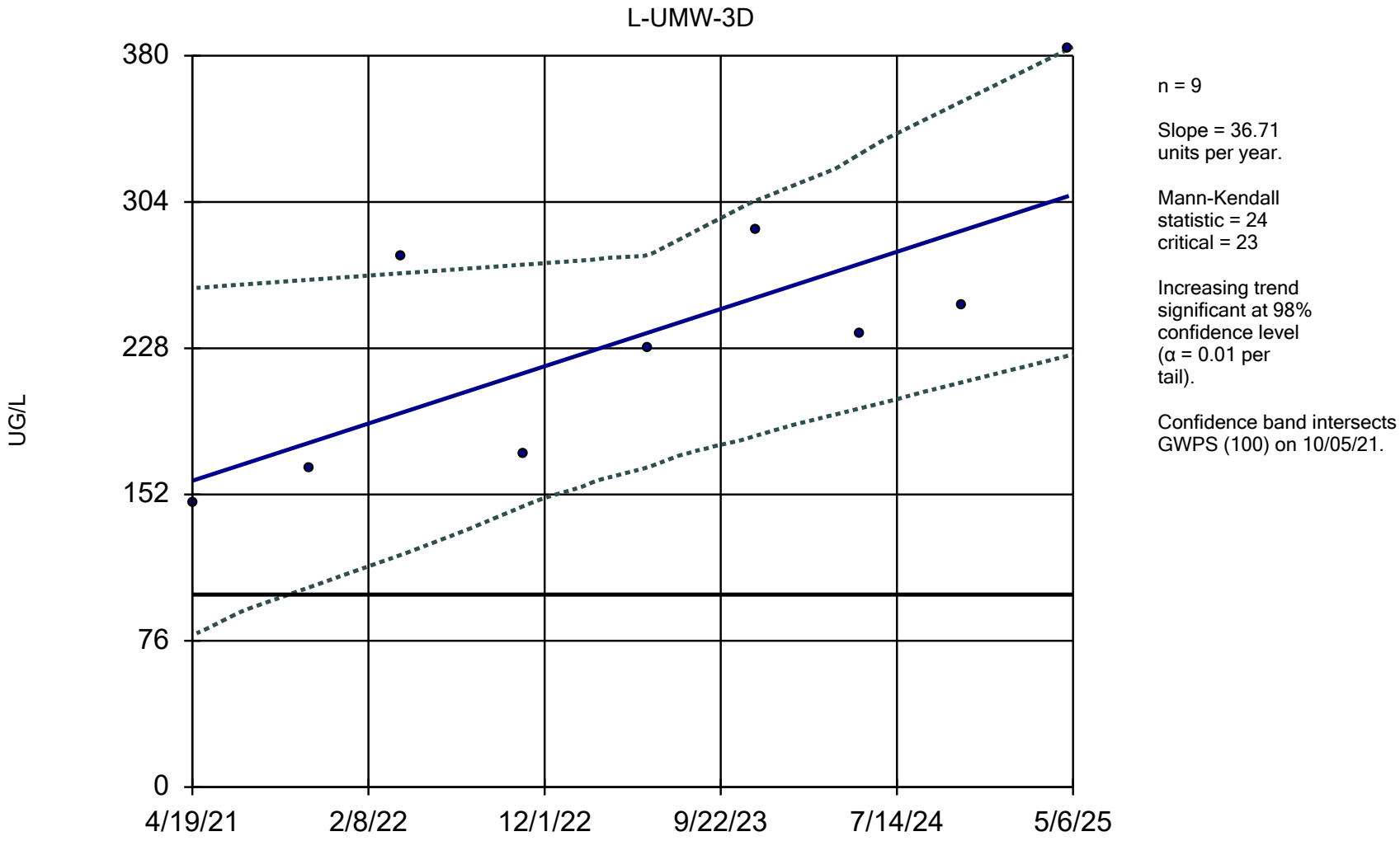
Confidence band is below GWPS (47.4).

Constituent: LITHIUM, TOTAL Analysis Run 8/28/2025 1:48 PM View: SSL Post Closure

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG

Sen's Slope and 95% Confidence Band



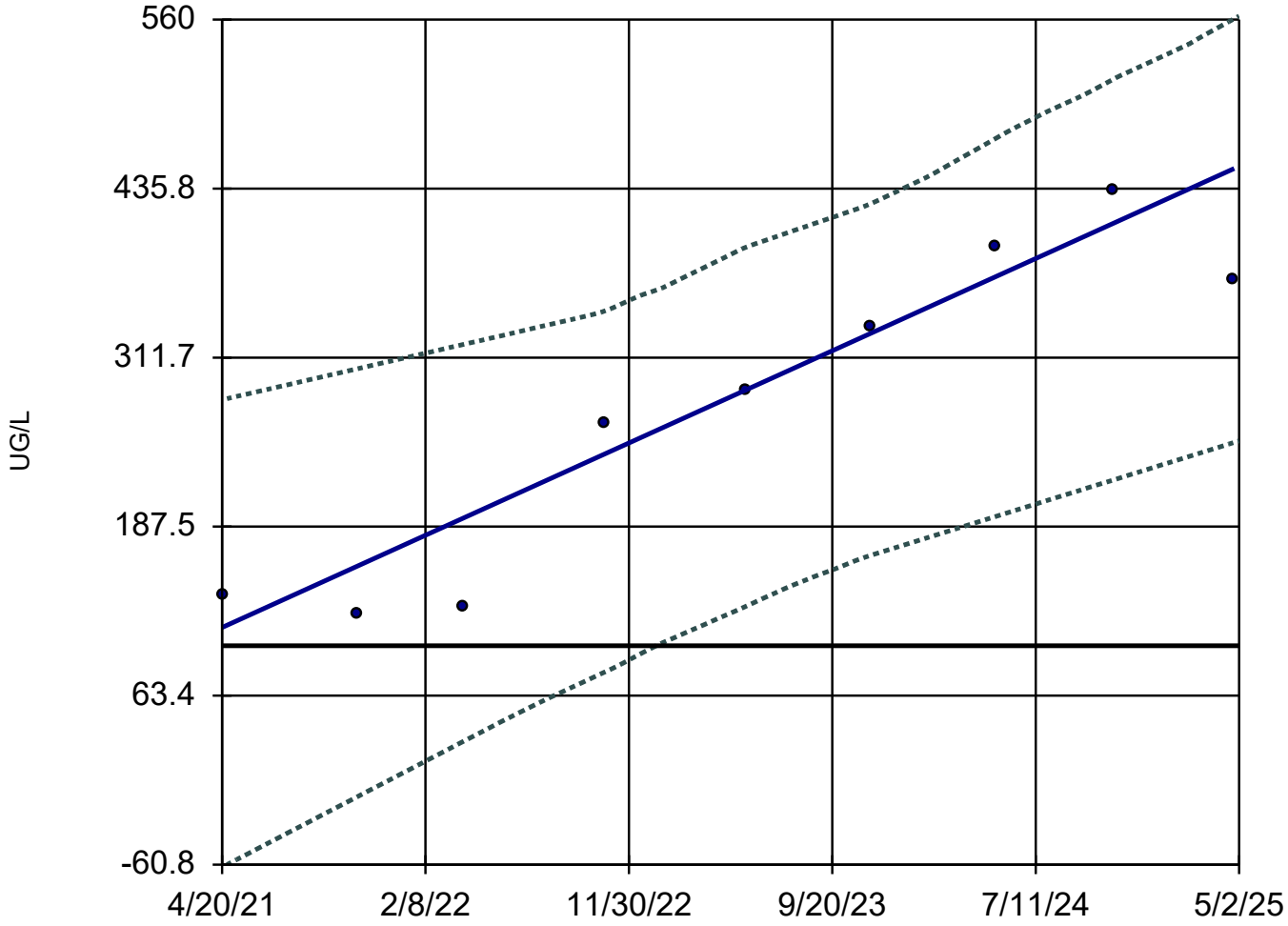
Constituent: MOLYBDENUM, TOTAL Analysis Run 8/28/2025 1:48 PM View: SSL Post Closure

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG

Sen's Slope and 95% Confidence Band

L-UMW-4D



n = 9

Slope = 83.93 units per year.

Mann-Kendall statistic = 28
critical = 23

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Confidence band intersects GWPS (100) on 01/17/23.

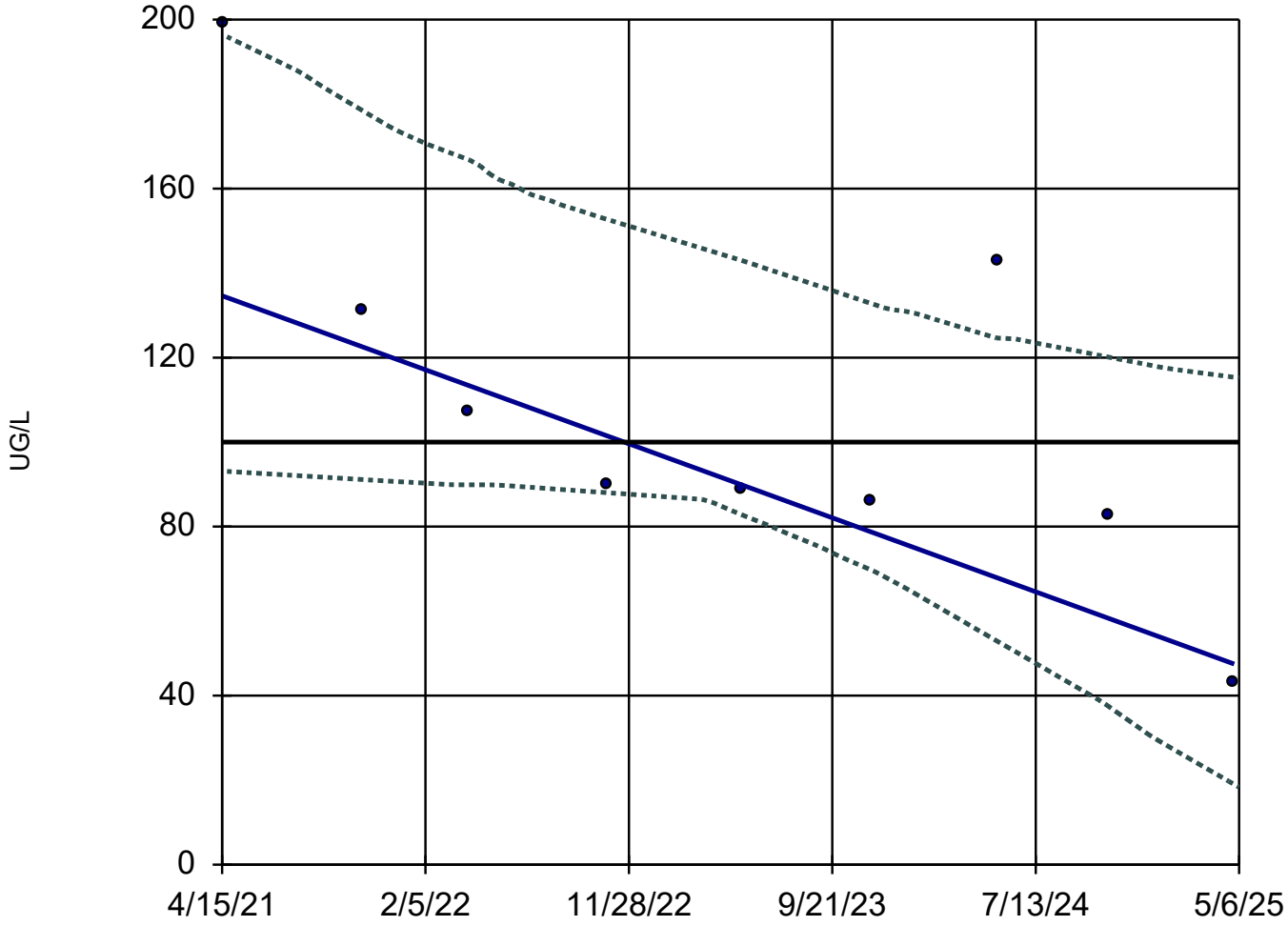
Constituent: MOLYBDENUM, TOTAL Analysis Run 8/28/2025 1:48 PM View: SSL Post Closure

Labadie E.C. Client: Ameren Data: LEC DATA 2

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG

Sen's Slope and 95% Confidence Band

L-UMW-7D



n = 9

Slope = -21.57 units per year.

Mann-Kendall statistic = -26
critical = -23

Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

GWPS (100) is entirely within the confidence band.

Constituent: MOLYBDENUM, TOTAL Analysis Run 8/28/2025 1:48 PM View: SSL Post Closure

Labadie E.C. Client: Ameren Data: LEC DATA 2

Trend Test

Labadie E.C. Client: Ameren Data: LEC DATA 2 Printed 8/28/2025, 1:48 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
ARSENIC, TOTAL (UG/L)	L-UMW-1D	2.861	26	31	No	11	0	n/a	n/a	0.02	NP
ARSENIC, TOTAL (UG/L)	**L-UMW-2D**	**-0.1718**	**-29**	**-23**	**Yes**	**9**	**0**	**n/a**	**n/a**	**0.02**	**NP**
ARSENIC, TOTAL (UG/L)	L-UMW-3D	0.2279	4	23	No	9	0	n/a	n/a	0.02	NP
ARSENIC, TOTAL (UG/L)	L-UMW-7D	1.38	18	23	No	9	0	n/a	n/a	0.02	NP
ARSENIC, TOTAL (UG/L)	L-UMW-9D	-0.6133	-9	-23	No	9	0	n/a	n/a	0.02	NP
BARIUM, TOTAL (UG/L)	L-UMW-1D	-1.356	-2	-23	No	9	0	n/a	n/a	0.02	NP
BARIUM, TOTAL (UG/L)	L-UMW-2D	-4.013	-6	-23	No	9	0	n/a	n/a	0.02	NP
BARIUM, TOTAL (UG/L)	L-UMW-3D	-14.47	-21	-23	No	9	0	n/a	n/a	0.02	NP
BARIUM, TOTAL (UG/L)	L-UMW-5D	9.98	22	23	No	9	0	n/a	n/a	0.02	NP
BARIUM, TOTAL (UG/L)	L-UMW-6D	-8.174	-22	-23	No	9	0	n/a	n/a	0.02	NP
BARIUM, TOTAL (UG/L)	L-UMW-8D	-13.32	-12	-23	No	9	0	n/a	n/a	0.02	NP
BARIUM, TOTAL (UG/L)	L-UMW-9D	-3.13	-6	-23	No	9	0	n/a	n/a	0.02	NP
CHROMIUM, TOTAL (UG/L)	L-UMW-9D	0	1	20	No	8	50	n/a	n/a	0.02	NP
FLUORIDE, TOTAL (MG/L)	L-UMW-2D	0	-9	-23	No	9	66.67	n/a	n/a	0.02	NP
FLUORIDE, TOTAL (MG/L)	L-UMW-4D	-0.03908	-23	-23	No	9	0	n/a	n/a	0.02	NP
FLUORIDE, TOTAL (MG/L)	L-UMW-5D	0	-15	-23	No	9	77.78	n/a	n/a	0.02	NP
FLUORIDE, TOTAL (MG/L)	L-UMW-6D	0	-1	-23	No	9	88.89	n/a	n/a	0.02	NP
FLUORIDE, TOTAL (MG/L)	**L-UMW-7D**	**-0.06801**	**-33**	**-31**	**Yes**	**11**	**54.55**	**n/a**	**n/a**	**0.02**	**NP**
LITHIUM, TOTAL (UG/L)	L-UMW-1D	-0.2177	-7	-23	No	9	0	n/a	n/a	0.02	NP
LITHIUM, TOTAL (UG/L)	L-UMW-2D	0.471	4	23	No	9	0	n/a	n/a	0.02	NP
LITHIUM, TOTAL (UG/L)	L-UMW-4D	-1.034	-15	-23	No	9	0	n/a	n/a	0.02	NP
LITHIUM, TOTAL (UG/L)	L-UMW-6D	0.0491	1	23	No	9	11.11	n/a	n/a	0.02	NP
LITHIUM, TOTAL (UG/L)	L-UMW-7D	0.7725	14	23	No	9	11.11	n/a	n/a	0.02	NP
LITHIUM, TOTAL (UG/L)	**L-UMW-8D**	**-6.53**	**-24**	**-23**	**Yes**	**9**	**0**	**n/a**	**n/a**	**0.02**	**NP**
MOLYBDENUM, TOTAL (UG/L)	L-UMW-2D	-1.746	-18	-23	No	9	0	n/a	n/a	0.02	NP
MOLYBDENUM, TOTAL (UG/L)	**L-UMW-3D**	**36.71**	**24**	**23**	**Yes**	**9**	**0**	**n/a**	**n/a**	**0.02**	**NP**
MOLYBDENUM, TOTAL (UG/L)	**L-UMW-4D**	**83.93**	**28**	**23**	**Yes**	**9**	**0**	**n/a**	**n/a**	**0.02**	**NP**
MOLYBDENUM, TOTAL (UG/L)	L-UMW-5D	43.01	13	27	No	10	0	n/a	n/a	0.02	NP
MOLYBDENUM, TOTAL (UG/L)	L-UMW-6D	3.786	4	23	No	9	0	n/a	n/a	0.02	NP
MOLYBDENUM, TOTAL (UG/L)	**L-UMW-7D**	**-21.57**	**-26**	**-23**	**Yes**	**9**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Radium [226 + 228] (PCI/L)	L-UMW-8D	0.1024	12	23	No	9	100	n/a	n/a	0.02	NP

Appendix D

October - November 2024 Corrective Action Statistical Evaluation

Memorandum

March 21, 2025

To:	Bill Kutosky – Ameren Missouri	**Project Number:**	23007-24
CC:	Ameren Missouri - Susan Knowles, Craig Giesmann, Lisa Meyer, Austin Nieman		
From:	Rocksmith Geoengineering – Mark Haddock, P.E., R.G., Jeff Ingram, R.G., Grant Morey, Amanda Derhake, PhD, P.E.	**Email:**	jeff.ingram@rocksmithgeo.com
RE:	**Corrective Action Statistical Evaluation – LCPA Surface Impoundment Labadie Energy Center, Franklin County, Missouri**		

1.0 INTRODUCTION

This Technical Memorandum provides the results of the Corrective Action Monitoring statistical analysis from the October-November 2024 sampling event for the LCPA Surface Impoundment at the Labadie Energy Center (LEC) located in Franklin County, Missouri. As outlined in the 2019 Remedy Selection Report for the LCPA, Corrective Action at the LCPA consists of two phases, as follows:

1) Source control, stabilization, and containment of CCR by installation of a low-permeability geomembrane cap.
2) Once source control is achieved, monitor the natural attenuation (MNA) of groundwater concentrations to address limited and localized CCR-related impacts. Ongoing monitoring and modeling evaluations will document that concentrations are decreasing as modelled. MNA occurs due to naturally occurring processes within the aquifer.

Phase 1 of Corrective Action commenced on September 28, 2019 and was substantially completed on December 30, 2020 with the installation of a low permeability cover system. Since that time, the LCPA has been subject to the post-closure care requirements of the CCR Rule, and Phase 2 of Corrective Action is ongoing. A Supplemental Remedy Selection report was prepared for the LCPA in August 2024 by Haley & Aldrich. This report documents the results of the above corrective measures since their inception as well as future supplemental measures that may be applied in the future. The report notes that source control, in addition to ongoing natural attenuation, appears to contribute to a general reduction in groundwater constituent concentrations near the LCPA. As of this evaluation, potential supplemental corrective measures are being planned for the LEC, including a groundwater treatment system similar to those in use at other Ameren facilities. Such a treatment system is expected to supplement the current source control and MNA remedy and enhance reductions in constituent concentrations.

As required by the CCR Rule, a Corrective Action monitoring program was implemented within 90 days of selecting a remedy, and the first sampling event was completed in April 2020. Eleven sampling events have been completed in total as a part of the Corrective Action Program at the LEC. This analysis uses results collected since the beginning of Corrective Action monitoring (April 2020) for the determination of constituents exceeding the groundwater protection standards (GWPSs), as data collected prior to this time were collected during active

conditions at the LCPA, prior to cessation of CCR disposal in the LCPA and are not representative of groundwater conditions since the initiation of closure.

Included in this memorandum is a summary of constituents that are currently in exceedance of the GWPSs, a list of site-specific Groundwater Protection Standards (**Table 1**), and the Sanitas Technologies™ (Sanitas) statistical software output for each of the Appendix IV parameters (**Appendix A** and **Appendix B**).

Trend tests using the Sen's Slope/Mann-Kendall method require a minimum of eight independent results, as outlined in the USEPA Unified Guidance. Therefore, trend tests were completed for the following Appendix IV constituents: antimony, arsenic, barium, chromium, cobalt, fluoride, lithium, molybdenum, radium 226 + 228, and selenium.

Several constituents were reported at concentrations below the Practical Quantitation Limit (PQL) during the spring 2020, 2021, 2022, 2023, and/or 2024 sampling events, including: antimony, beryllium, cadmium, chromium, cobalt, lead, mercury, and thallium. During years when a constituent was reported at concentrations below the PQL in all wells, they were not re-sampled/tested during the subsequent semi-annual sampling event each calendar year. Therefore, there are fewer results available for these constituents, and Sen's Slope/Mann-Kendall analyses may not be completed for these Appendix IV constituents until they reach the requisite quantity of results. As of this evaluation, there are now eight independent cobalt results for each well; therefore, this is the first Corrective Action statistical evaluation where trend tests were completed for cobalt.

2.0 STATISTICAL EVALUATION

The Appendix IV constituents were evaluated for exceedances above the GWPS using the methods and procedures outlined in the Corrective Action Groundwater Monitoring Plan's (CAGMP) Statistical Analysis Plan (SAP). An outlier analysis was completed as the first step of the statistical evaluation. The outlier analysis was performed only on the results collected as a part of the Corrective Action Monitoring Program. In addition to outliers noted in previous Corrective Action statistical evaluations, the following outliers were removed from the dataset prior to the calculation of confidence limits:

- Antimony
    - L-AMW-8 at 0.15 J micrograms per liter (µg/L) on 5/27/2020: result is statistically higher than other antimony values at the same monitoring well. This higher result is not consistent with previous or subsequent antimony results at the well and is an outlier.
- Barium
    - L-LMW-1S at 231 µg/L on 5/21/2024: result is statistically higher than other barium values at the same monitoring well. This higher result is not consistent with previous or subsequent barium results at the well and is an outlier.
- Lithium
    - L-TP-2M at 25.3 J µg/L on 10/26/2022: result is statistically lower than other lithium values at the same monitoring well. This lower result is not consistent with previous or subsequent lithium results at the well and is an outlier.

An analysis of the outliers removed to date in previous statistical evaluations was completed, and the following statistical outliers previously removed were added back into the dataset prior to the calculation of confidence limits:

- Arsenic
    - L-TP-3D at 5.1 µg/L on 4/15/2020: removed during the statistical evaluation for the April 2022 sampling event because the result was statistically lower than other arsenic results at the same monitoring well. Based on review of subsequent sampling results, the lower result was confirmed, and the result is no longer an outlier.
- Selenium
    - L-LMW-7S at 0.71 J µg/L on 5/18/2023: removed during the statistical evaluation for the November 2023 sampling event because the result was statistically higher than other selenium results at the same monitoring well. Based on review of subsequent sampling results, the higher result was confirmed, and the result is no longer an outlier.

Following the outlier analysis, the second step in the statistical analysis was to calculate confidence intervals and compare those to the site-specific GWPSs (**Appendix A**). Confidence interval evaluation was supplemented with Sen's Slope/Mann Kendall Analyses on constituents that have eight independent sampling results at a given well, per the USEPA Unified Guidance (**Appendix B**). The Sen's Slope/Mann-Kendall Analysis identifies well-analyte pairs that have statistically significant trends and calculates confidence bands that vary with time. The upper confidence band, in relation to the GWPS for a given constituent, is used to determine exceedances, as outlined in the site CAGMP. As discussed previously, beryllium, cadmium, lead, mercury, and thallium do not have the requisite quantity of results to perform Sen's Slope/Mann Kendall Analyses, so only confidence intervals were produced for those constituents.

Using these corrective action statistical methods, as of the October-November 2024 sampling event, monitoring wells with constituents exceeding the GWPS are as follows:

- Arsenic at L-LMW-2S
- Molybdenum at L-LMW-2S, L-LMW-4S, L-LMW-7S, L-LMW-8S, L-AM-1D, L-TP-2D, L-TP-3D, L-TP-3M, L-AMW-8, L-MW-33[D], L-MW-34[D], and L-MW-35[D]

Lithium at L-LMW-7S is no longer an exceedance as of November 2024 as the upper confidence limit (UCL) is now below the GWPS for lithium, as displayed in **Appendix A**. Therefore, lithium is no longer an exceedance at any monitoring well within the LCPA Corrective Action monitoring network. The other arsenic and molybdenum exceedances identified in the statistical evaluation for the June 2024 sampling event remain as of this evaluation.

Variability in initial constituent concentrations directly after the closure of the LCPA is expected, especially at wells nearest the CCR unit, where closure grading and disturbance activities were greatest. The concentrations reported following closure are expected to be variable but are expected to decrease over time as stabilization occurs and supplemental corrective measures are put into service.

3.0 CLOSING

Rocksmith appreciates this opportunity to provide hydrogeological and engineering support services to Ameren. If you have any questions or comments regarding the information provided, please contact the undersigned.

Sincerely,

Rocksmith Geoengineering, LLC



Jeff Ingram, R.G.
Senior Geologist, Partner



Amanda Derhake, PhD, P.E.
Principal Engineer, Senior Partner

Attachments

Tables

Table 1 – LCPA Groundwater Protection Standards

Appendices

Appendix A – Sanitas Confidence Interval Statistical Output

Appendix B – Sanitas Trending Confidence Bands Statistical Output

Tables

Table 1 - LCPA Groundwater Protection Standards
LCPA Surface Impoundment
Labadie Energy Center, Franklin County, MO

Parameter	Units	MCL or Health Based GWPS	Site GWPS	Value to Return to Detection Monitoring [6]
Antimony	µg/L	6	6	DQR
Arsenic	µg/L	10	44.2	44.2
Barium	µg/L	2000	2000	1290
Beryllium	µg/L	4	4	DQR
Cadmium	µg/L	5	5	DQR
Chromium	µg/L	100	100	DQR
Cobalt	µg/L	6	6	DQR
Fluoride	mg/L	4	4	0.3074
Lead	µg/L	15	15	DQR
Lithium	µg/L	40	47.4	47.4
Mercury	µg/L	2	2	DQR
Molybdenum	µg/L	100	100	DQR
Radium 226 + 228	pCi/L	5	5	4.14
Selenium	µg/L	50	50	DQR
Thallium	µg/L	2	2	DQR

Notes:

1. µg/L - micrograms per liter.
2. mg/L - milligrams per liter.
3. pCi/L - picocuries per liter.
4. MCL - Maximum Contaminant Level. MCLs from United States Environmental Protection Agency (USEPA) 2012 Edition of the Drinking Water Standards and Health Advisories. Updated January 9, 2023 at http://water.epa.gov/drink/contaminants/index.cfm.
5. Health Based Groundwater Protection Standards (GWPS) were adoped for Appendix IV parameters without an MCL (i.e. cobalt, lithium, molybdenum, and lead). Information available at https://www.epa.gov/coalash/coal-ash-rule.
6. Values were calculated using statistical methods outlined for Detection Monitoring and are used for returning to Detection Monitoring based on available data to date.
7. DQR - Double Quantification Rule. If all baseline data are less than the Practical Quantitation Limit (PQL), then the DQR will be used. More information on the DQR is provided in the Statistical Analysis Plan.
8. Site GWPS is either the MCL/Health Based GWPS or based on background levels (calculated as described in the Statistical Analysis Plan for Assessment Monitoring), whichever is higher.
9. GWPS and background values calculated using results through May 2023 from monitoring wells BMW-1D and BMW-2D.

ROCKSMITH GEOENGINEERING

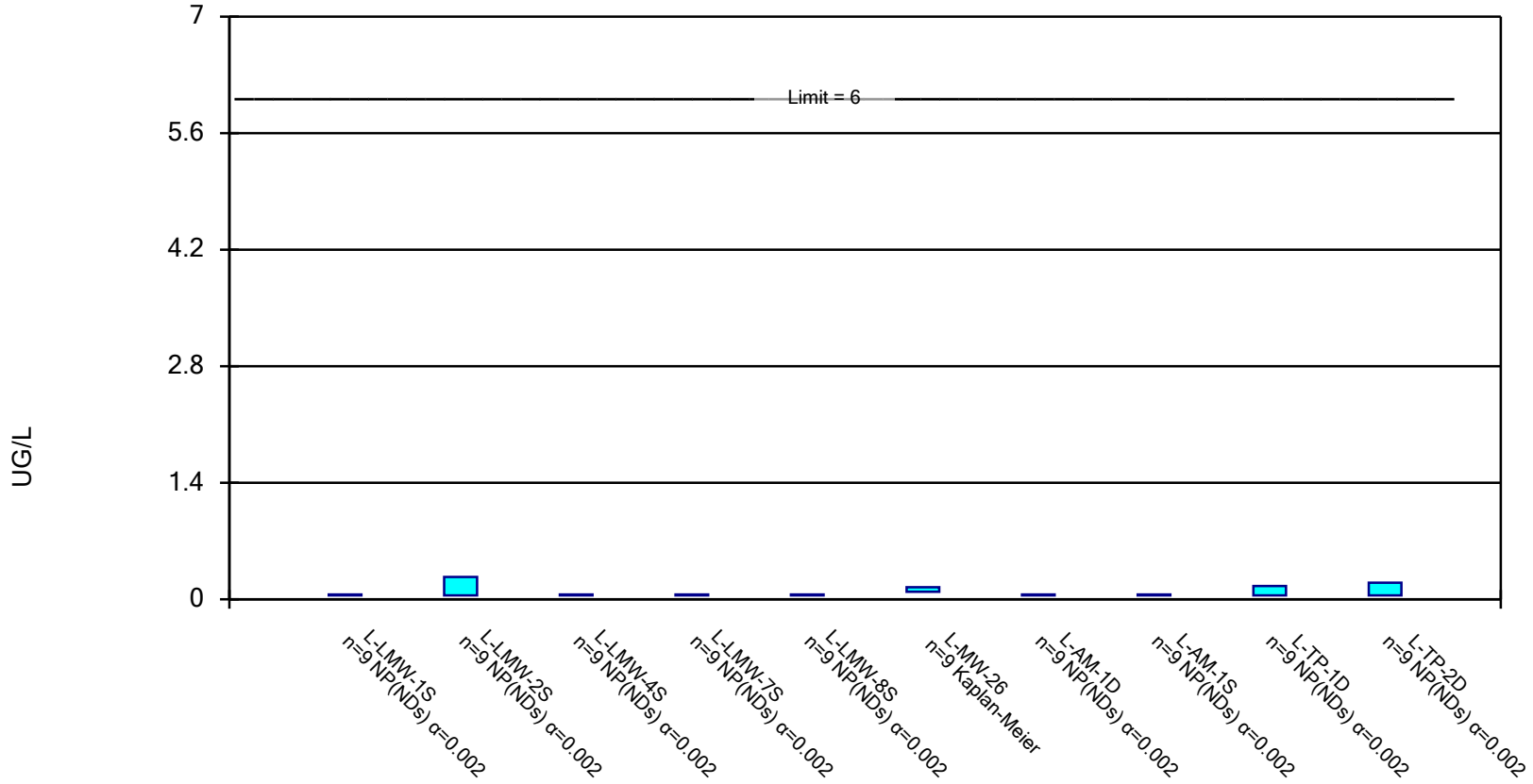
Prepared by: GTM
Checked by: JSI
Reviewed by: MNH

Appendix A
Sanitas Confidence Interval Statistical Output

Sanitas™ v.10.0.24 Software licensed to Rocksmith Geoengineering. UG

Parametric and Non-Parametric (NP) Confidence Interval, Corrective Action Mode

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



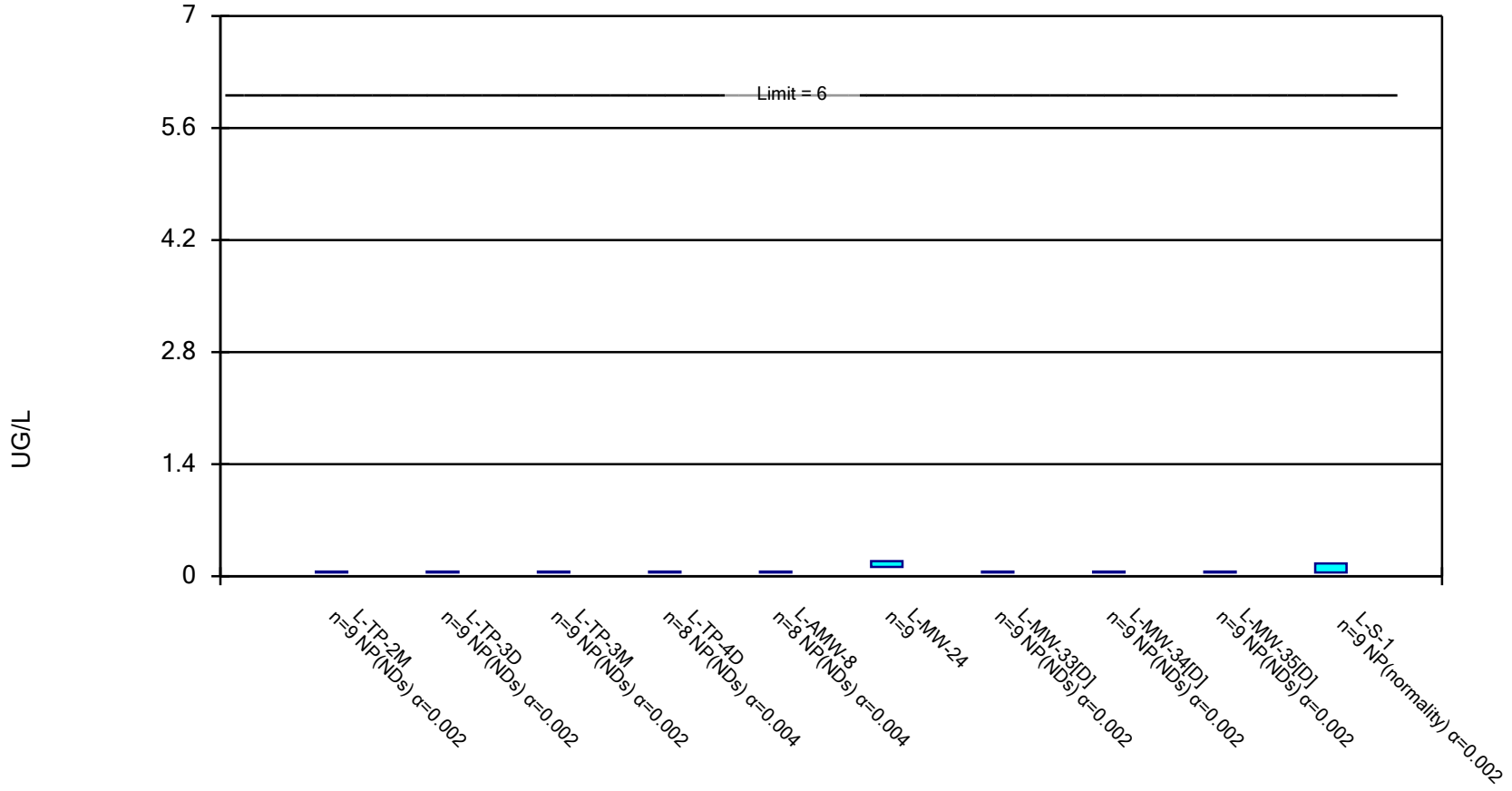
Constituent: ANTIMONY, TOTAL Analysis Run 3/17/2025 2:10 PM View: Assessment Monitoring

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.24 Software licensed to Rocksmith Geoengineering. UG

Parametric and Non-Parametric (NP) Confidence Interval, Corrective Action Mode

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



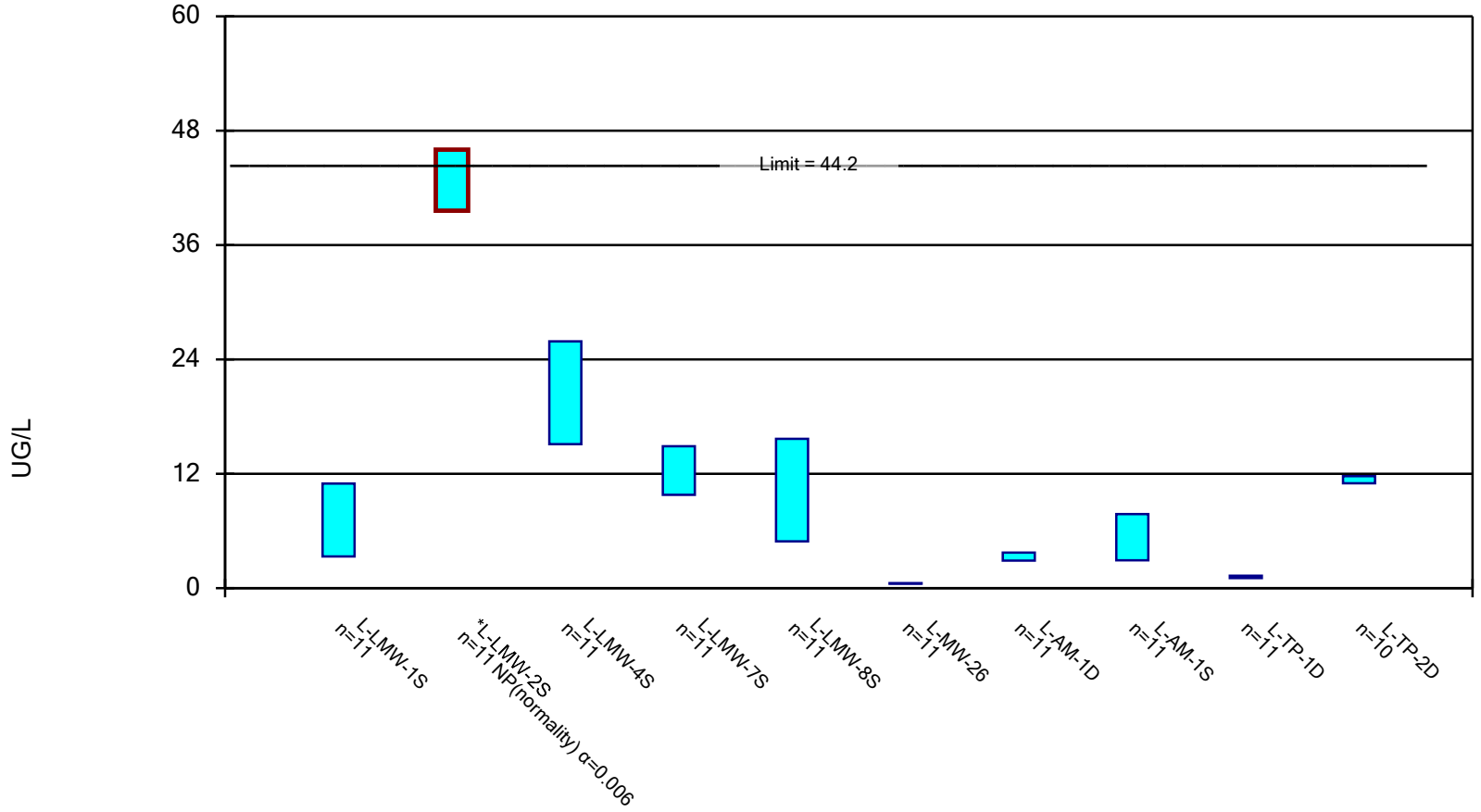
Constituent: ANTIMONY, TOTAL Analysis Run 3/17/2025 2:10 PM View: Assessment Monitoring

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.24 Software licensed to Rocksmith Geoengineering. UG

Parametric and Non-Parametric (NP) Confidence Interval, Corrective Action Mode

Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



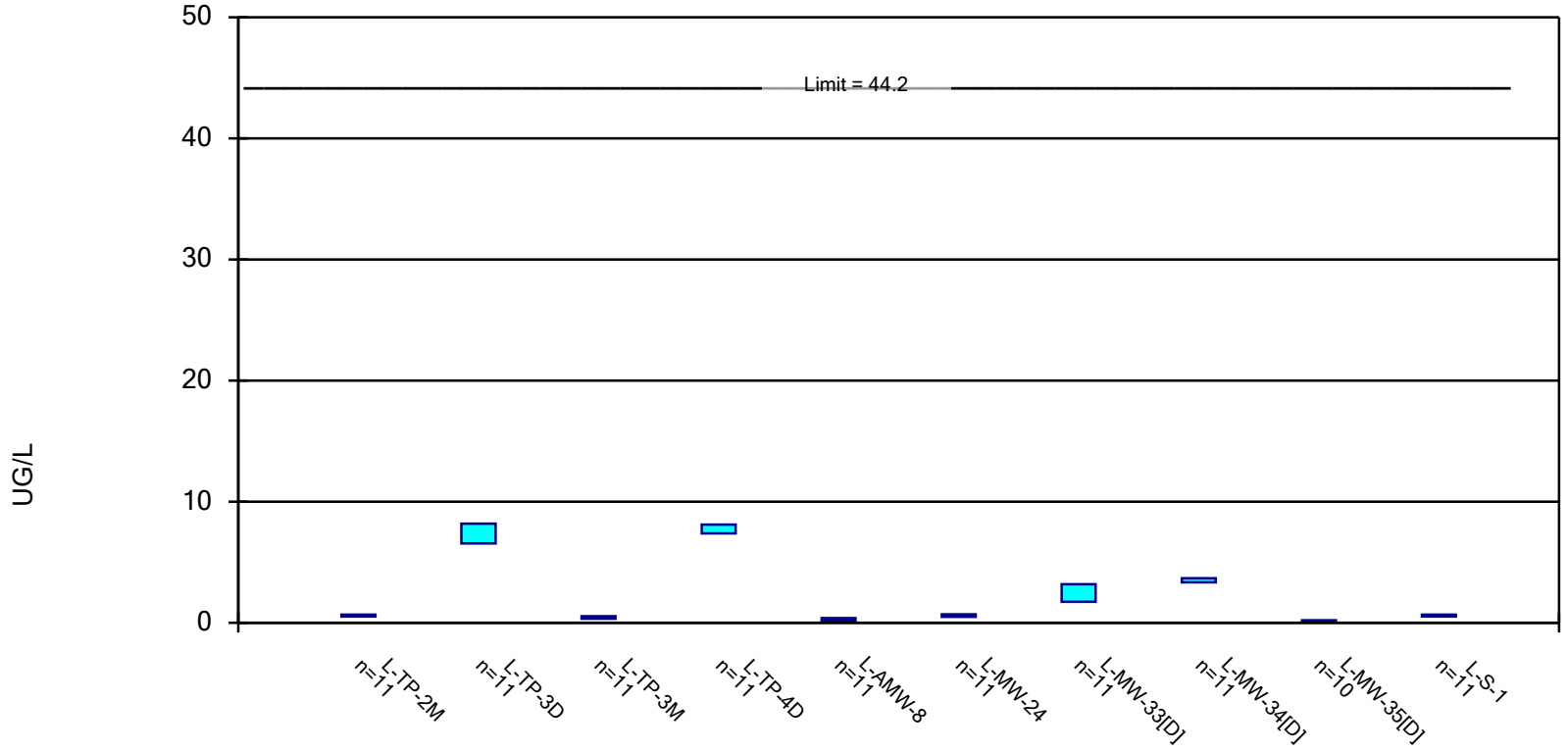
Constituent: ARSENIC, TOTAL Analysis Run 3/17/2025 2:10 PM View: Assessment Monitoring

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.24 Software licensed to Rocksmith Geoengineering. UG

Parametric Confidence Interval, Corrective Action Mode

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



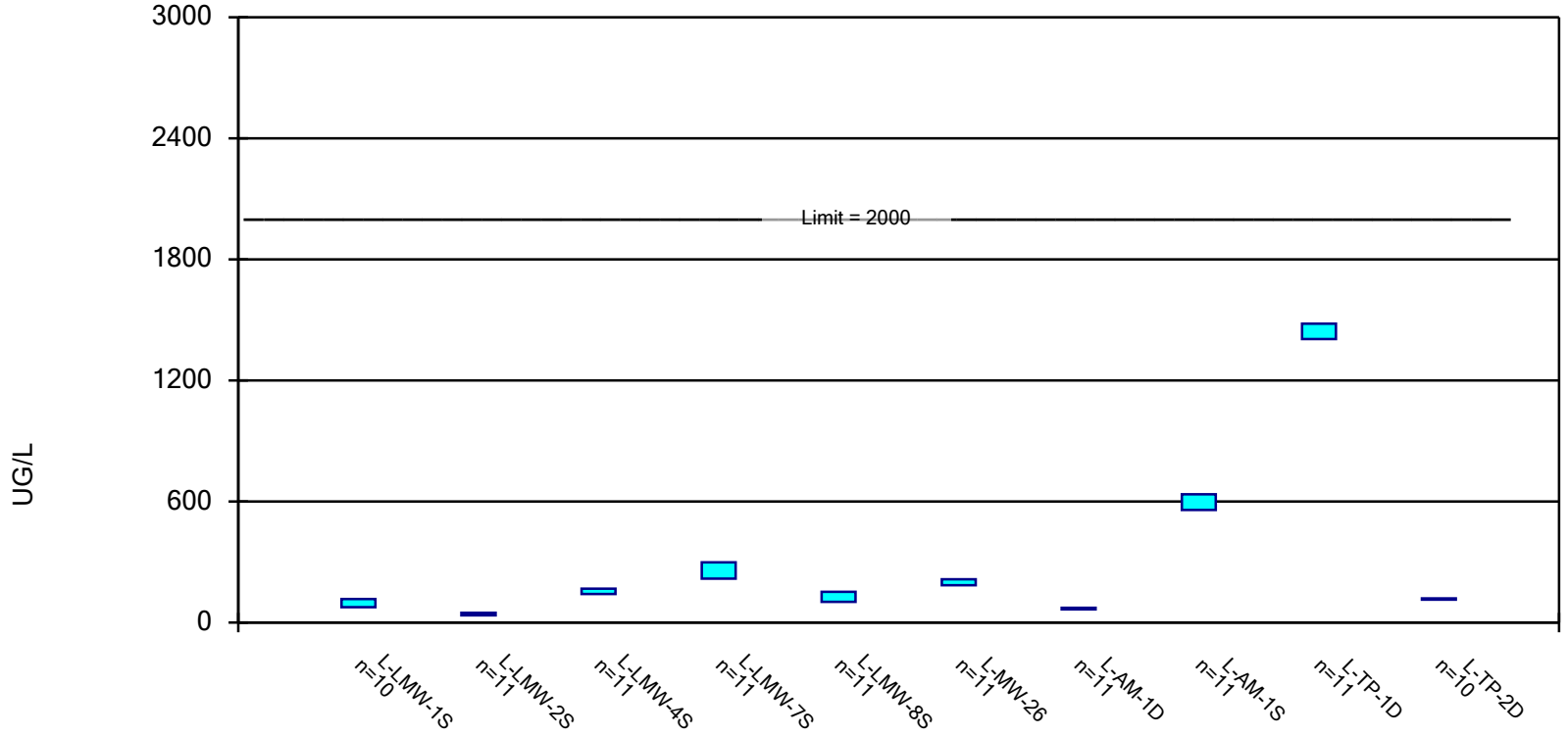
Constituent: ARSENIC, TOTAL Analysis Run 3/17/2025 2:10 PM View: Assessment Monitoring

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.24 Software licensed to Rocksmith Geoengineering. UG

Parametric Confidence Interval, Corrective Action Mode

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



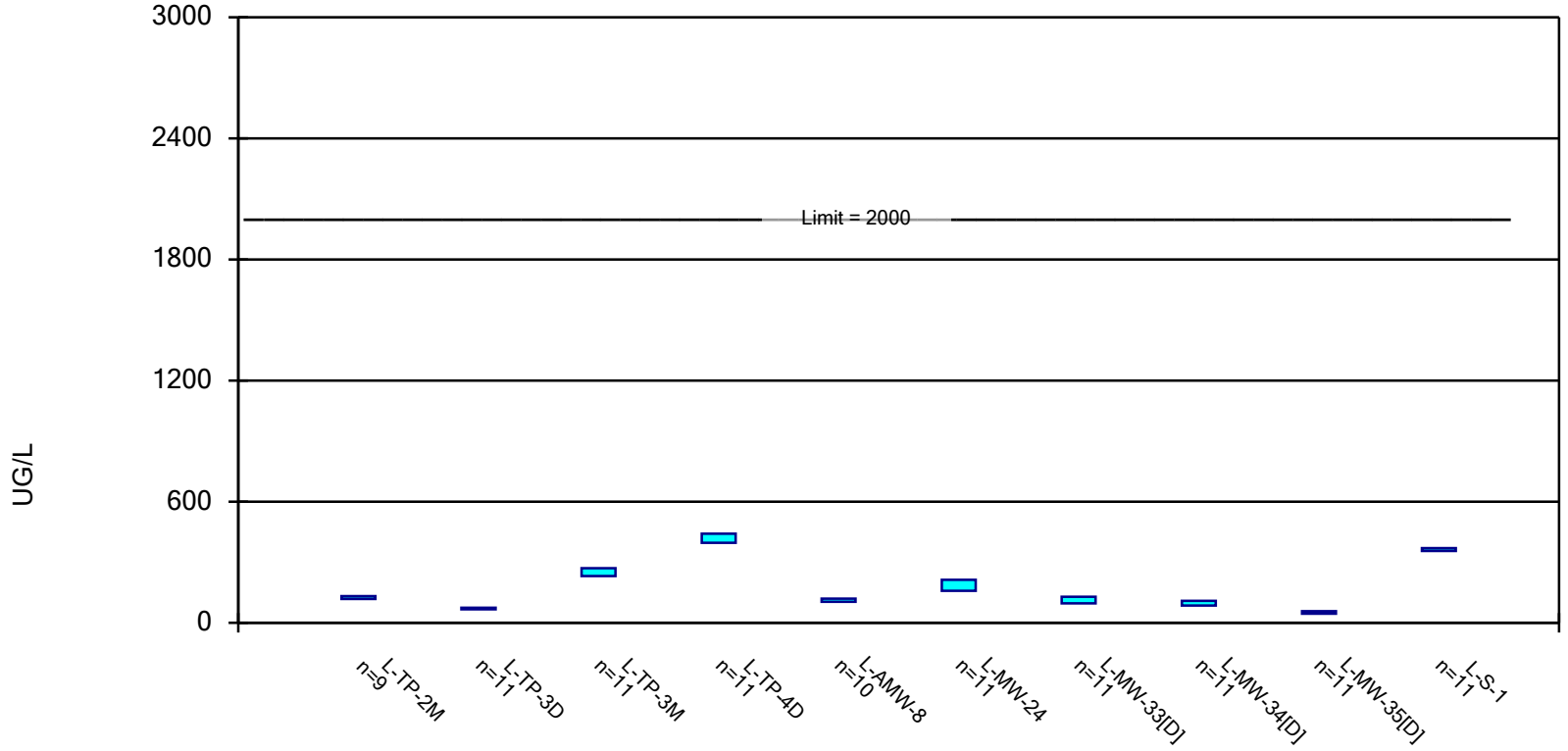
Constituent: BARIUM, TOTAL Analysis Run 3/17/2025 2:10 PM View: Assessment Monitoring

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.24 Software licensed to Rocksmith Geoengineering. UG

Parametric Confidence Interval, Corrective Action Mode

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

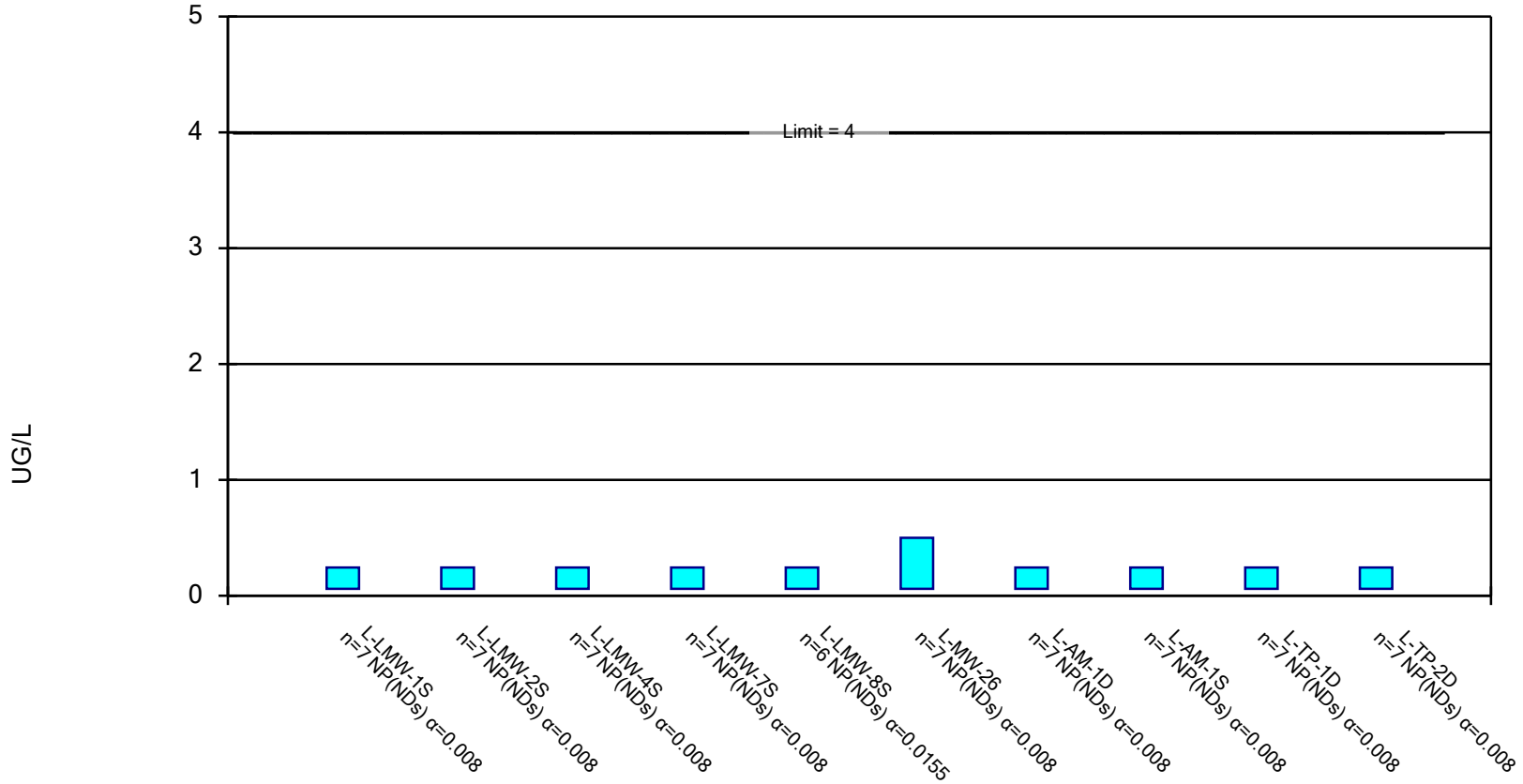


Constituent: BARIUM, TOTAL Analysis Run 3/17/2025 2:10 PM View: Assessment Monitoring

Labadie E.C. Client: Ameren Data: LEC DATA

Non-Parametric Confidence Interval, Corrective Action Mode

Compliance Limit is not exceeded.

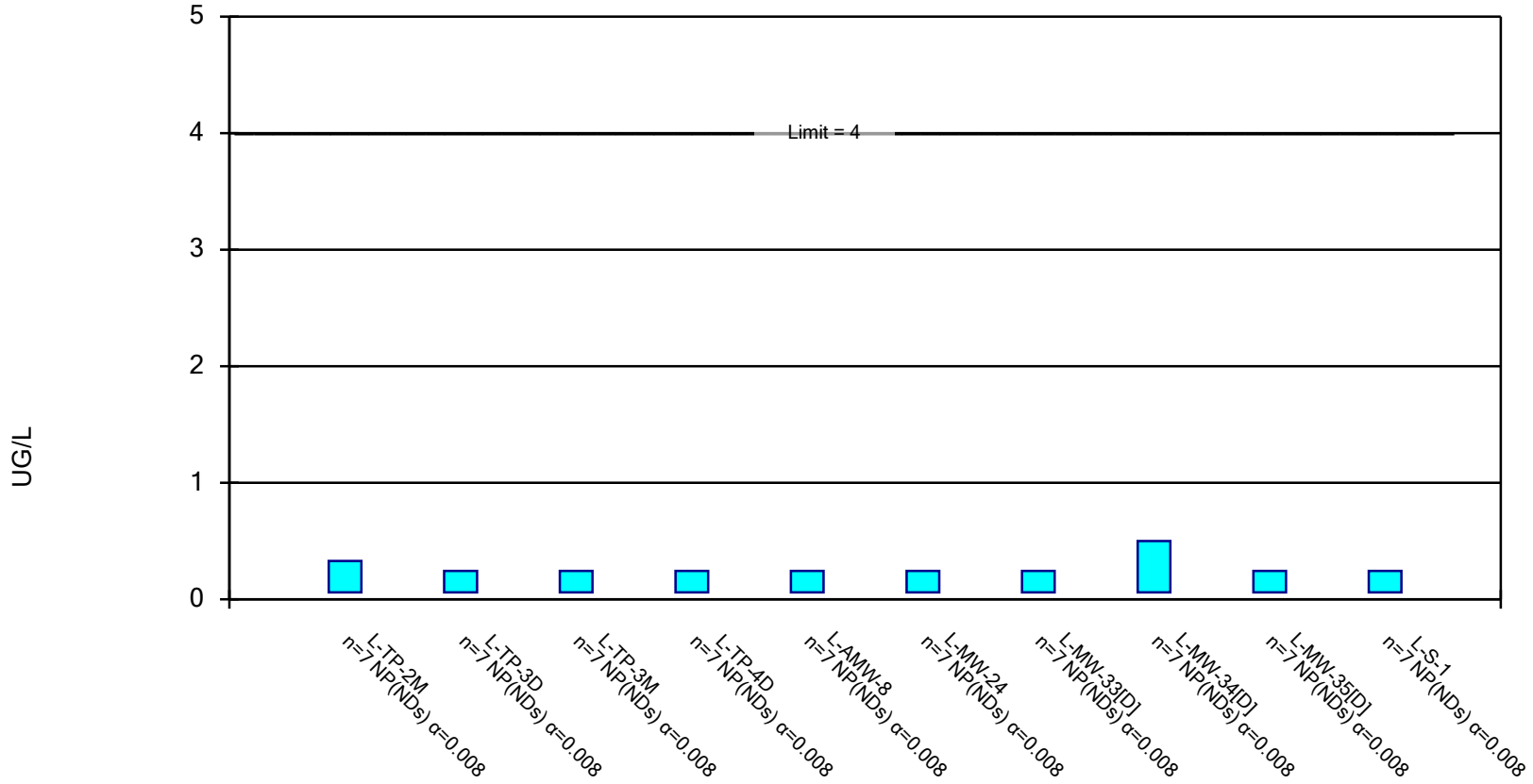


Constituent: BERYLLIUM, TOTAL Analysis Run 3/17/2025 2:10 PM View: Assessment Monitoring

Labadie E.C. Client: Ameren Data: LEC DATA

Non-Parametric Confidence Interval, Corrective Action Mode

Compliance Limit is not exceeded.



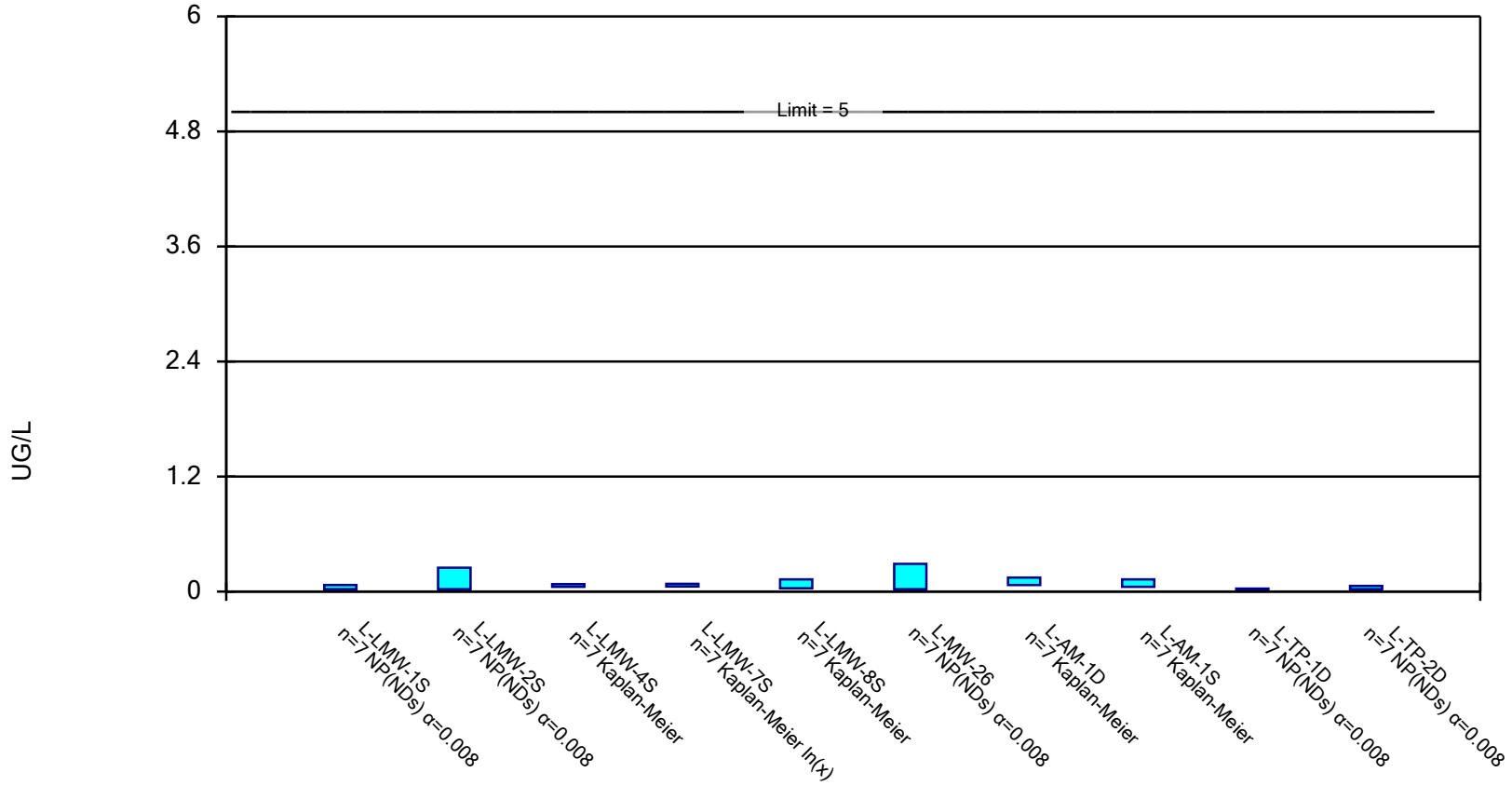
Constituent: BERYLLIUM, TOTAL Analysis Run 3/17/2025 2:10 PM View: Assessment Monitoring

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.24 Software licensed to Rocksmith Geoengineering. UG

Parametric and Non-Parametric (NP) Confidence Interval, Corrective Action Mode

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

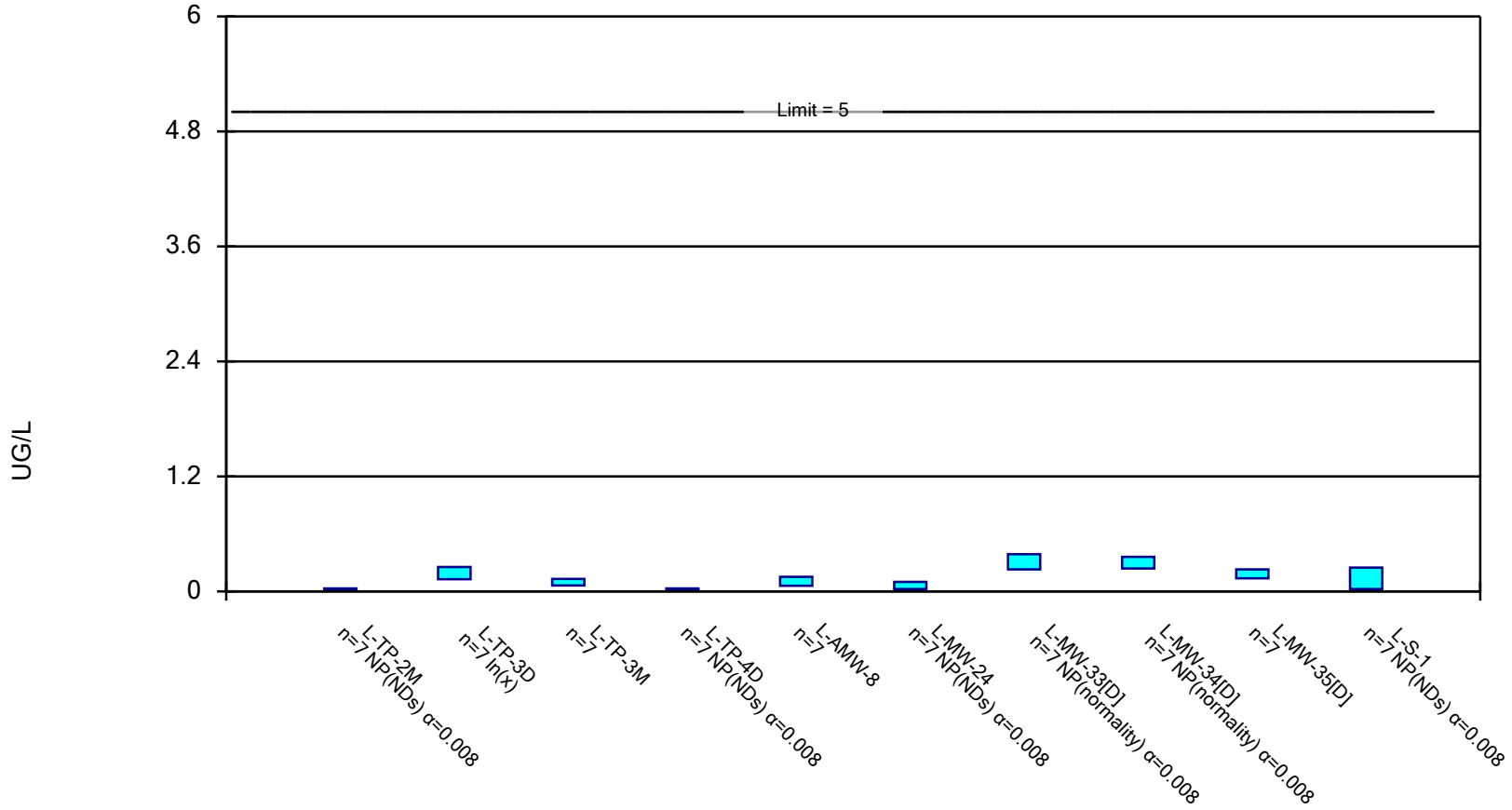


Constituent: CADMIUM, TOTAL Analysis Run 3/17/2025 2:10 PM View: Assessment Monitoring

Labadie E.C. Client: Ameren Data: LEC DATA

Parametric and Non-Parametric (NP) Confidence Interval, Corrective Action Mode

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



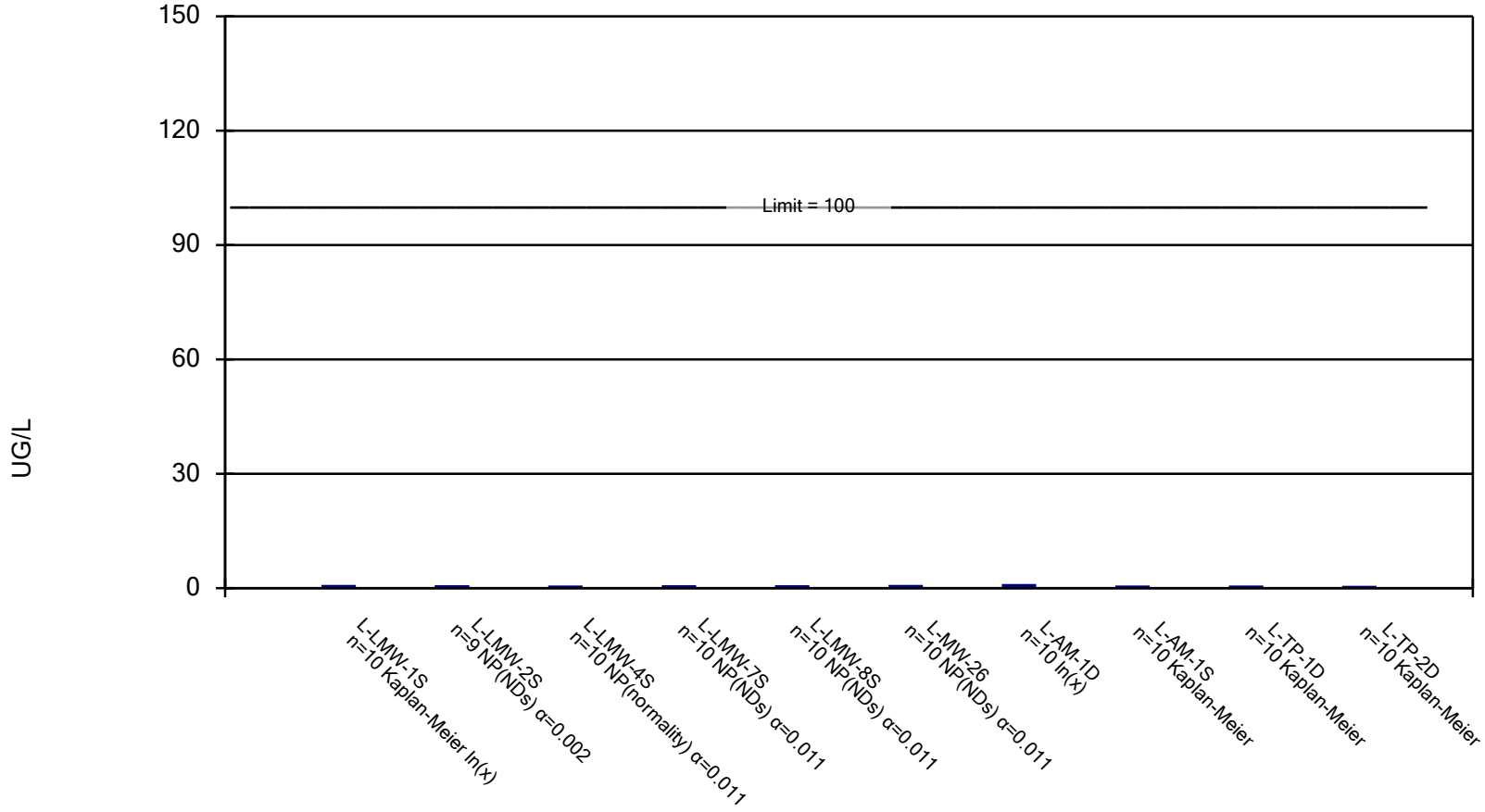
Constituent: CADMIUM, TOTAL Analysis Run 3/17/2025 2:10 PM View: Assessment Monitoring

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.24 Software licensed to Rocksmith Geoengineering. UG

Parametric and Non-Parametric (NP) Confidence Interval, Corrective Action Mode

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



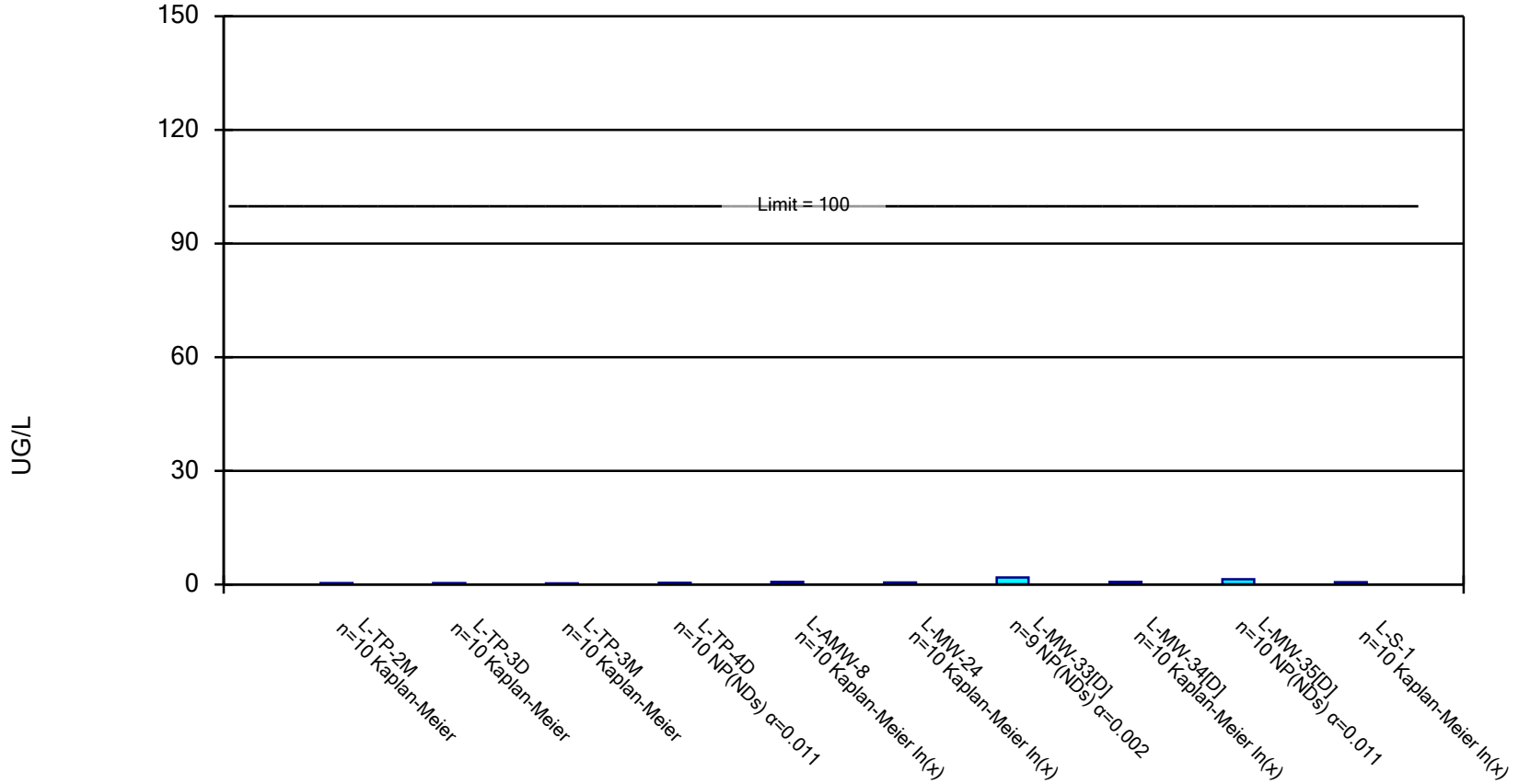
Constituent: CHROMIUM, TOTAL Analysis Run 3/17/2025 2:10 PM View: Assessment Monitoring

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.24 Software licensed to Rocksmith Geoengineering. UG

Parametric and Non-Parametric (NP) Confidence Interval, Corrective Action Mode

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



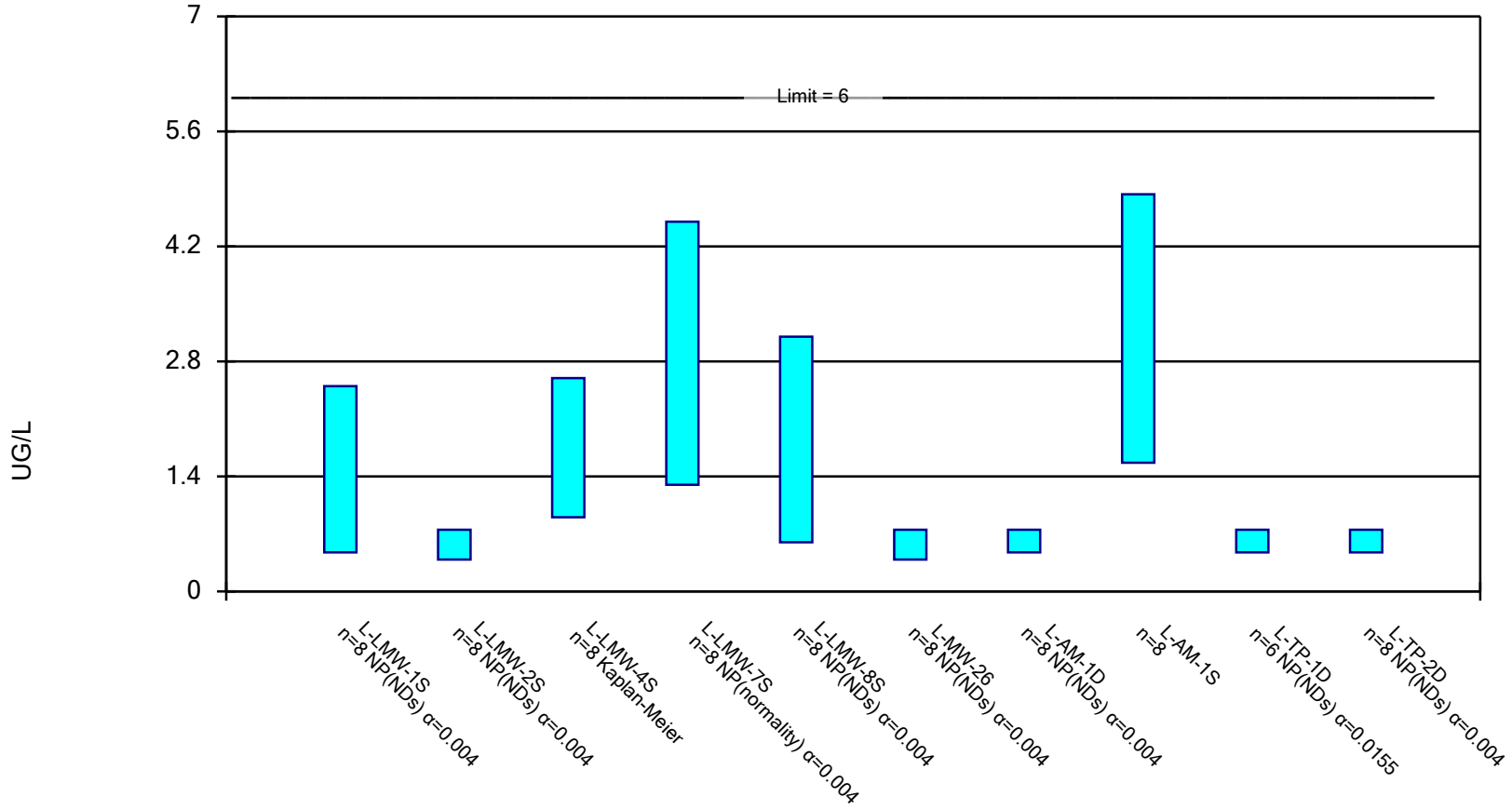
Constituent: CHROMIUM, TOTAL Analysis Run 3/17/2025 2:10 PM View: Assessment Monitoring

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.24 Software licensed to Rocksmith Geoengineering. UG

Parametric and Non-Parametric (NP) Confidence Interval, Corrective Action Mode

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

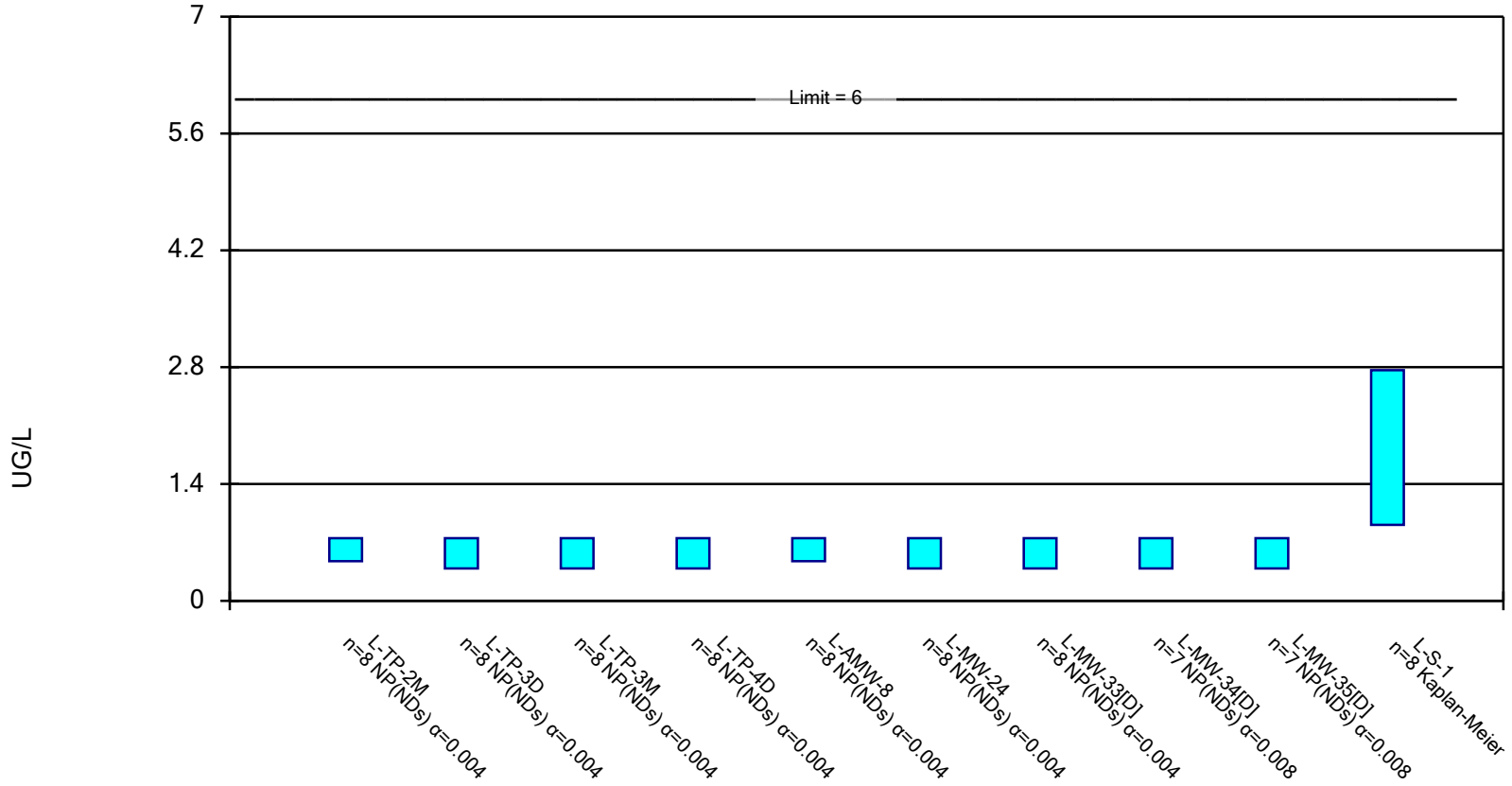


Constituent: COBALT, TOTAL Analysis Run 3/17/2025 2:10 PM View: Assessment Monitoring

Labadie E.C. Client: Ameren Data: LEC DATA

Parametric and Non-Parametric (NP) Confidence Interval, Corrective Action Mode

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



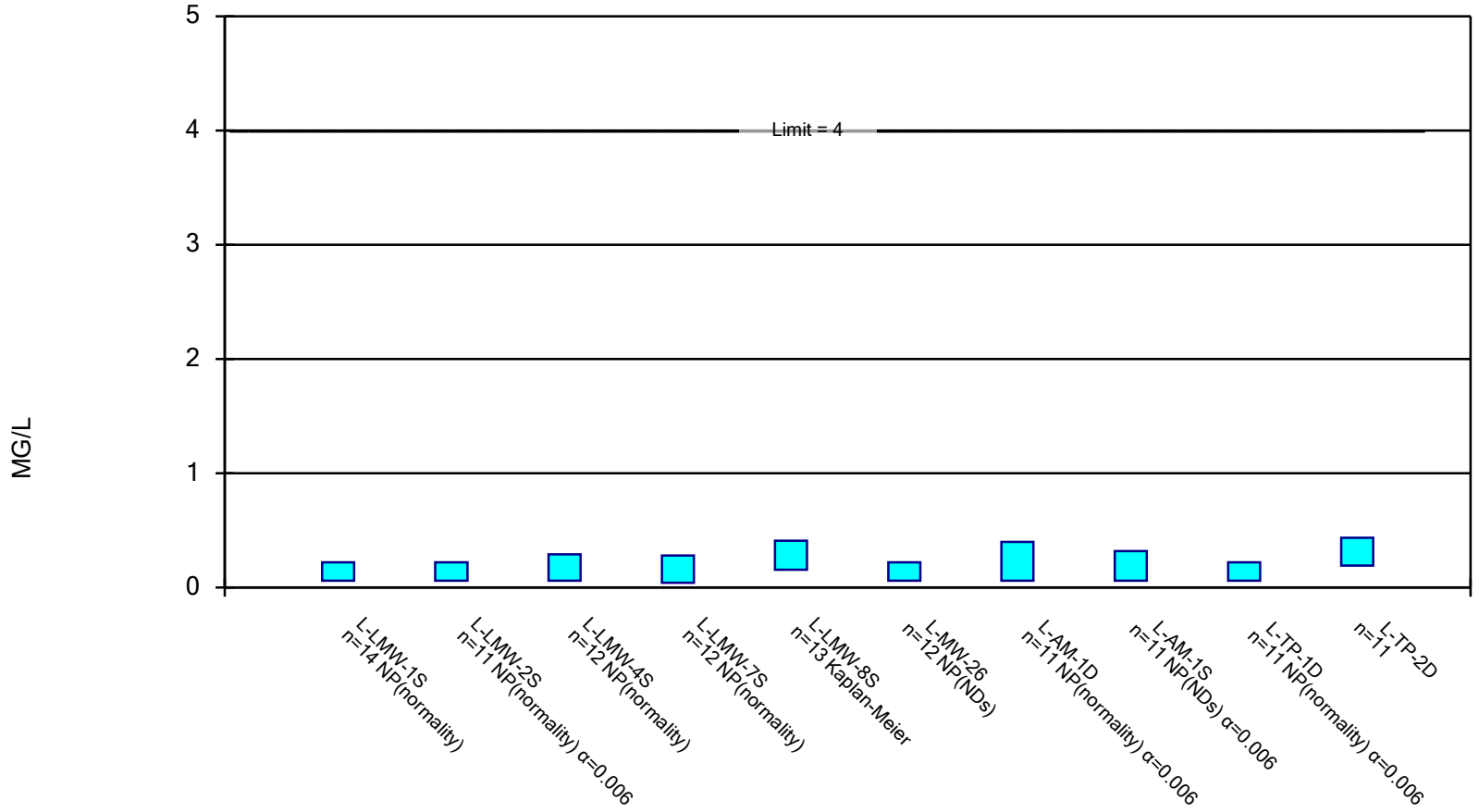
Constituent: COBALT, TOTAL Analysis Run 3/17/2025 2:10 PM View: Assessment Monitoring

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.24 Software licensed to Rocksmith Geoengineering. UG

Parametric and Non-Parametric (NP) Confidence Interval, Corrective Action Mode

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



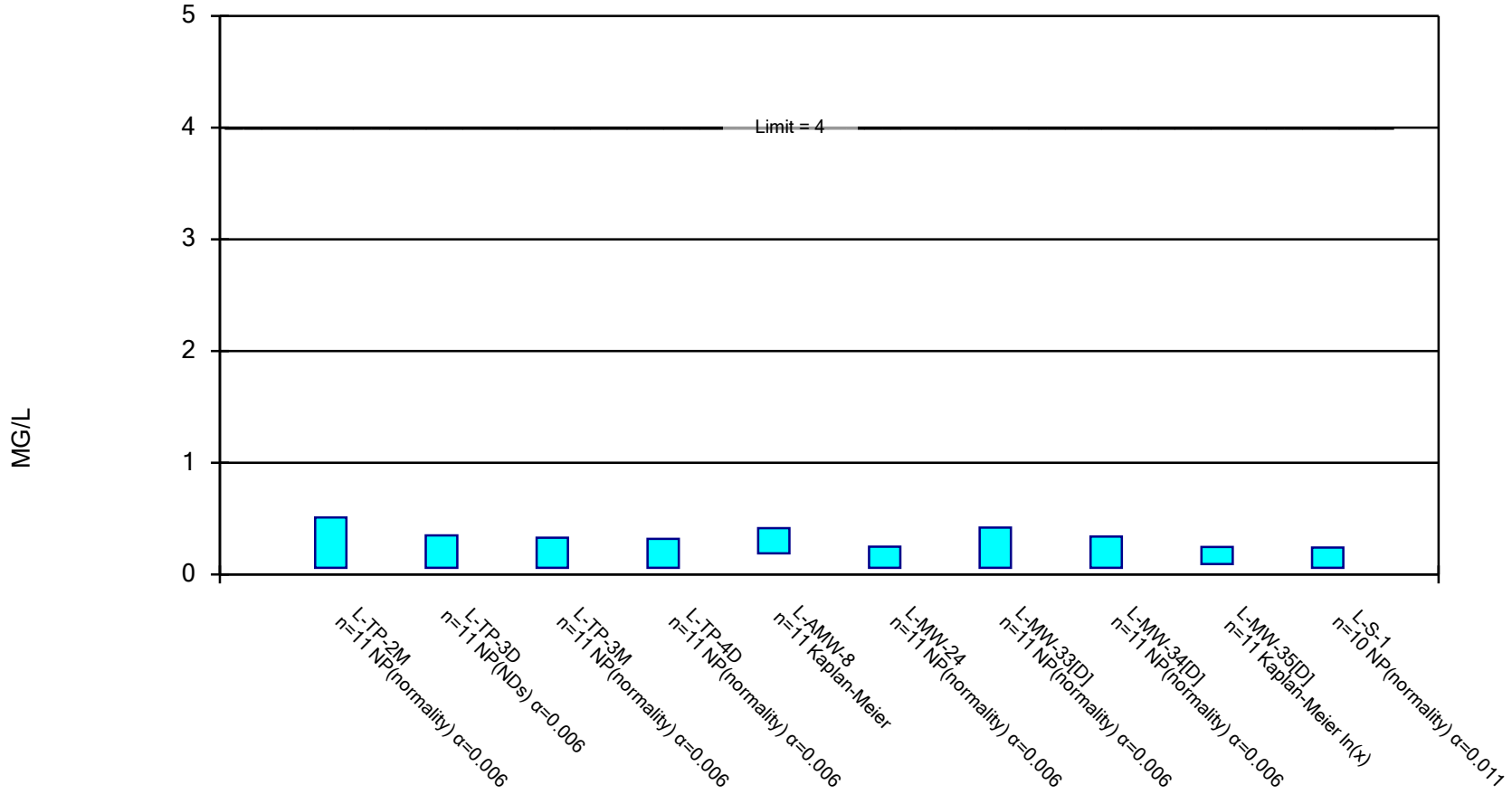
Constituent: FLUORIDE, TOTAL Analysis Run 3/17/2025 2:10 PM View: Assessment Monitoring

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.24 Software licensed to Rocksmith Geoengineering. UG

Parametric and Non-Parametric (NP) Confidence Interval, Corrective Action Mode

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

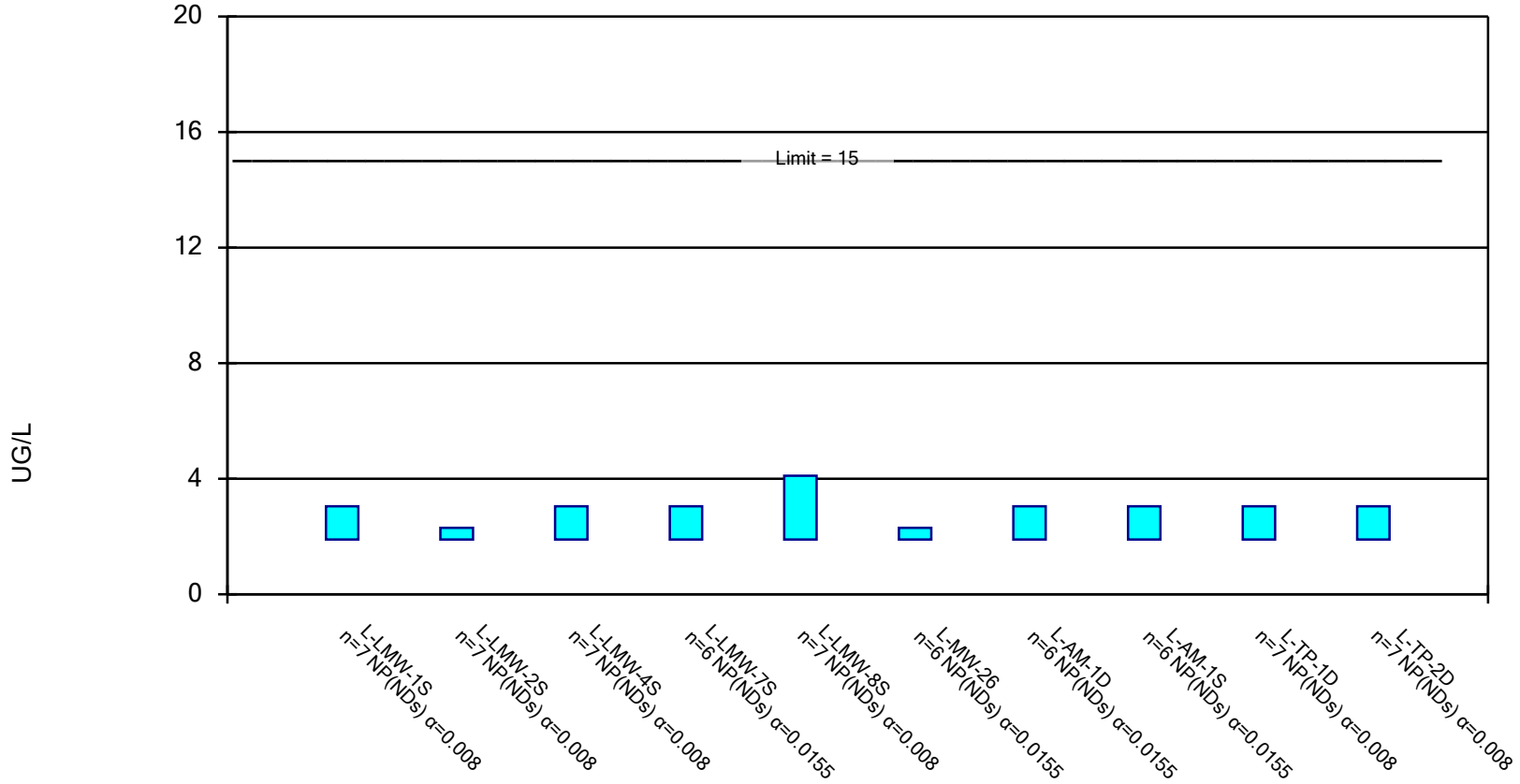


Constituent: FLUORIDE, TOTAL Analysis Run 3/17/2025 2:10 PM View: Assessment Monitoring

Labadie E.C. Client: Ameren Data: LEC DATA

Non-Parametric Confidence Interval, Corrective Action Mode

Compliance Limit is not exceeded.



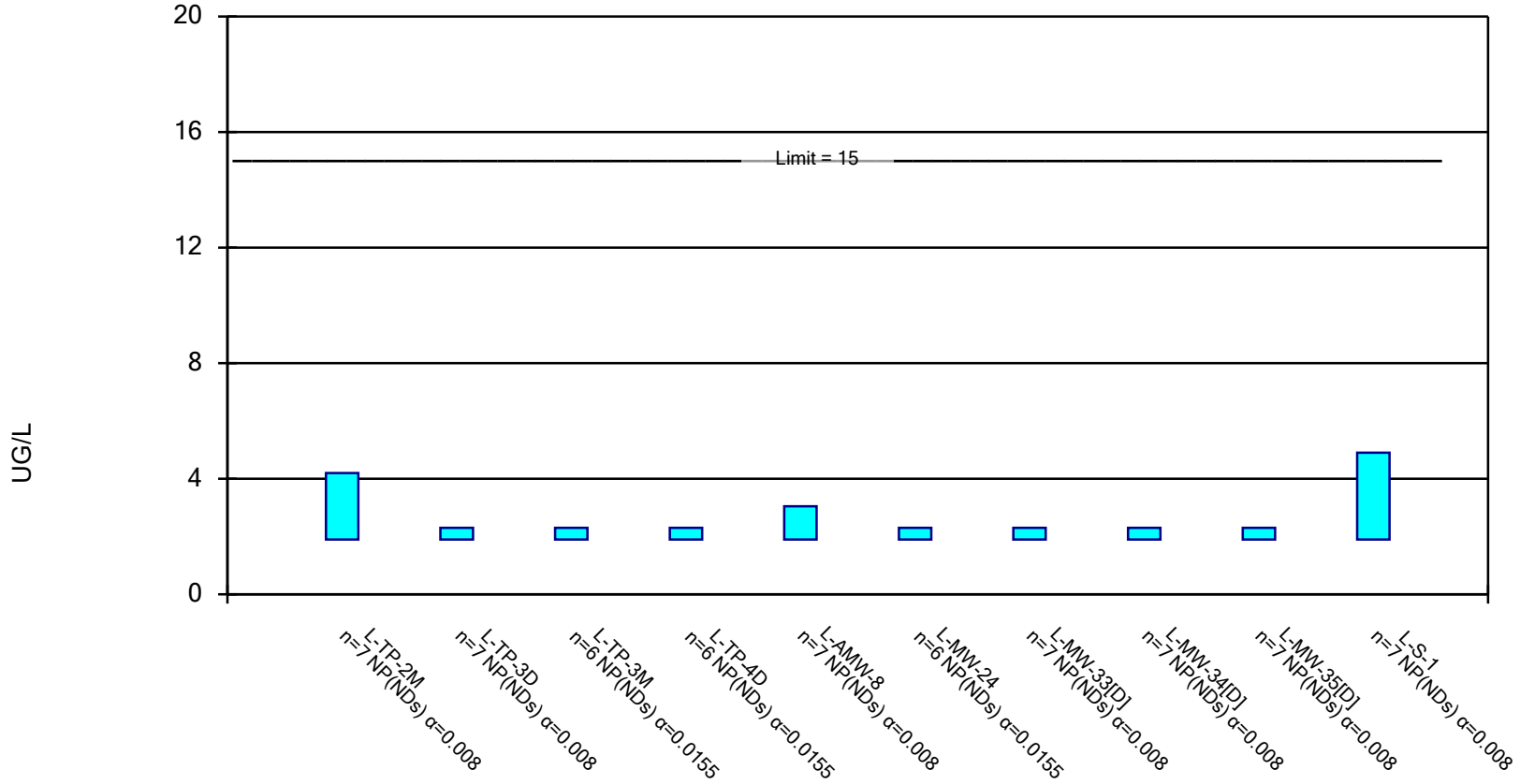
Constituent: LEAD, TOTAL Analysis Run 3/17/2025 2:10 PM View: Assessment Monitoring

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.24 Software licensed to Rocksmith Geoengineering. UG

Non-Parametric Confidence Interval, Corrective Action Mode

Compliance Limit is not exceeded.



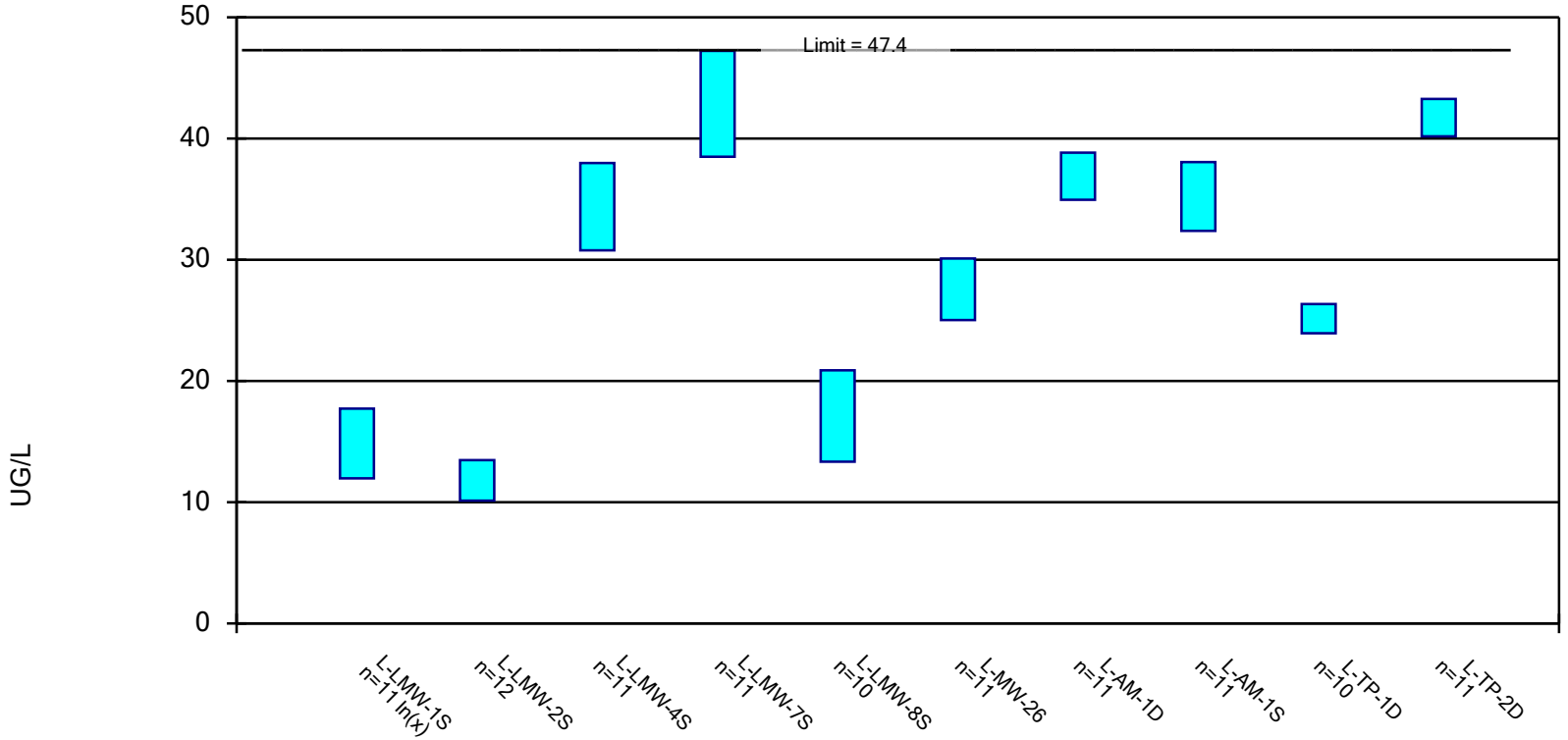
Constituent: LEAD, TOTAL Analysis Run 3/17/2025 2:10 PM View: Assessment Monitoring

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.24 Software licensed to Rocksmith Geoengineering. UG

Parametric Confidence Interval, Corrective Action Mode

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



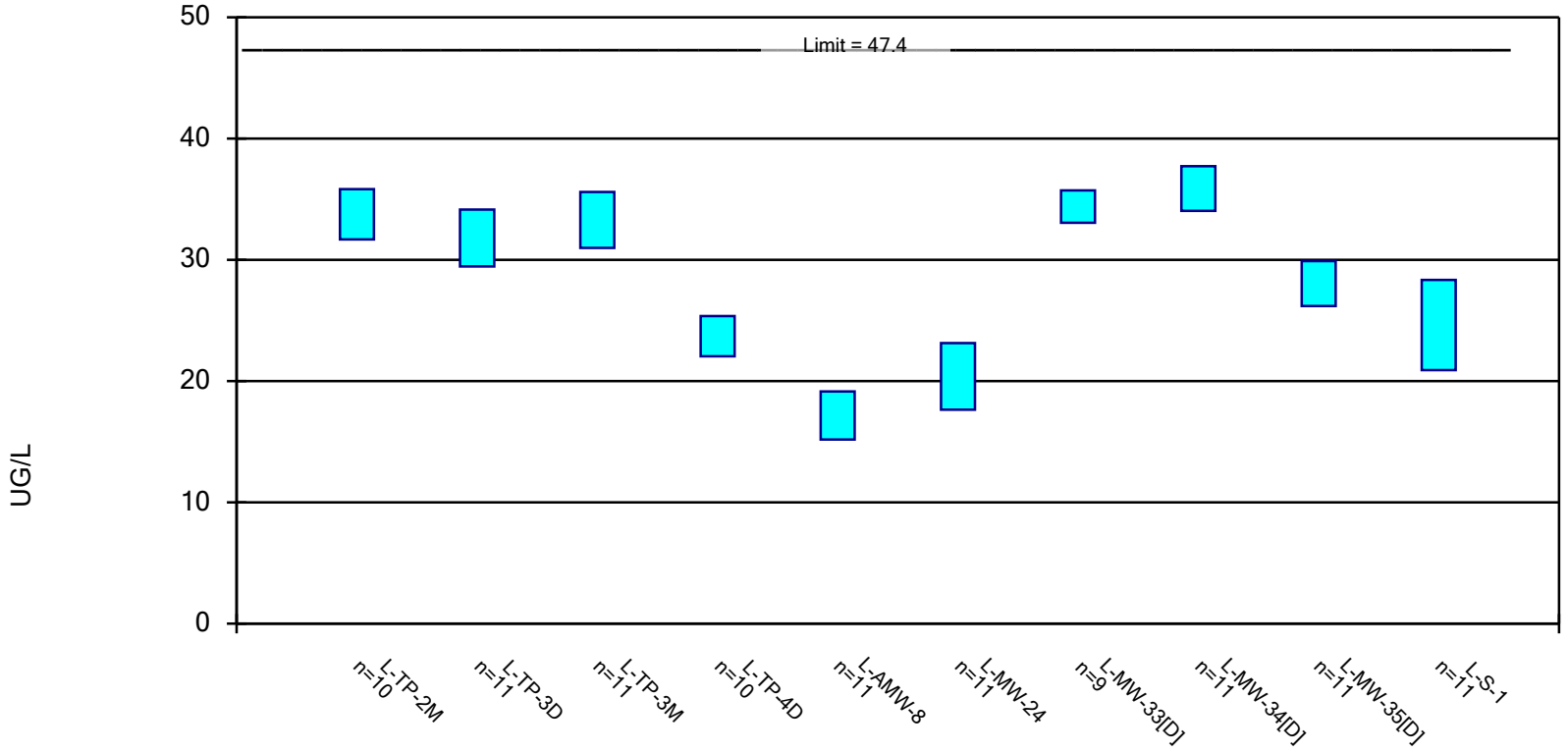
Constituent: LITHIUM, TOTAL Analysis Run 3/17/2025 2:10 PM View: Assessment Monitoring

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.24 Software licensed to Rocksmith Geoengineering. UG

Parametric Confidence Interval, Corrective Action Mode

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

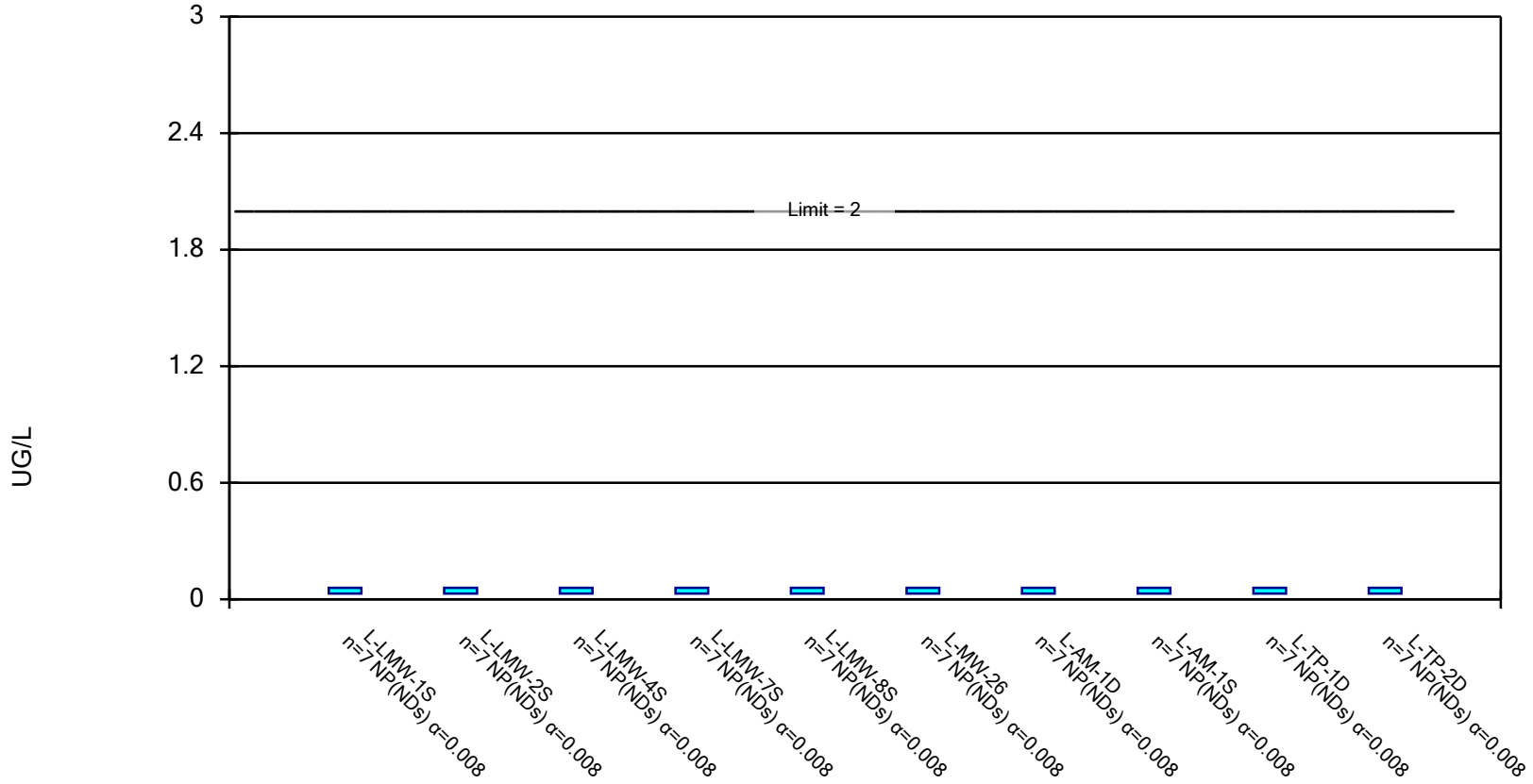


Constituent: LITHIUM, TOTAL Analysis Run 3/17/2025 2:10 PM View: Assessment Monitoring

Labadie E.C. Client: Ameren Data: LEC DATA

Non-Parametric Confidence Interval, Corrective Action Mode

Compliance Limit is not exceeded.



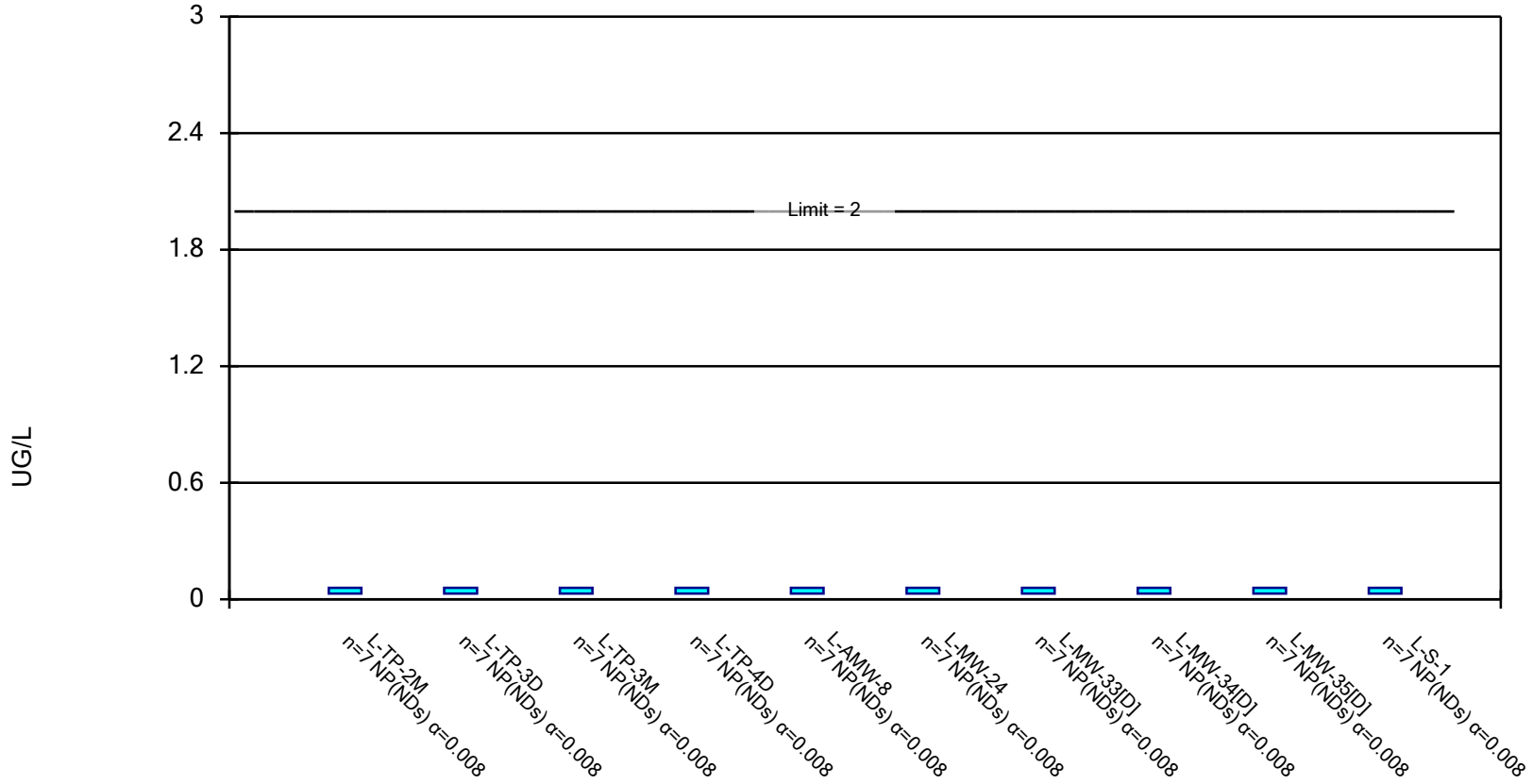
Constituent: MERCURY, TOTAL Analysis Run 3/17/2025 2:10 PM View: Assessment Monitoring

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.24 Software licensed to Rocksmith Geoengineering. UG

Non-Parametric Confidence Interval, Corrective Action Mode

Compliance Limit is not exceeded.

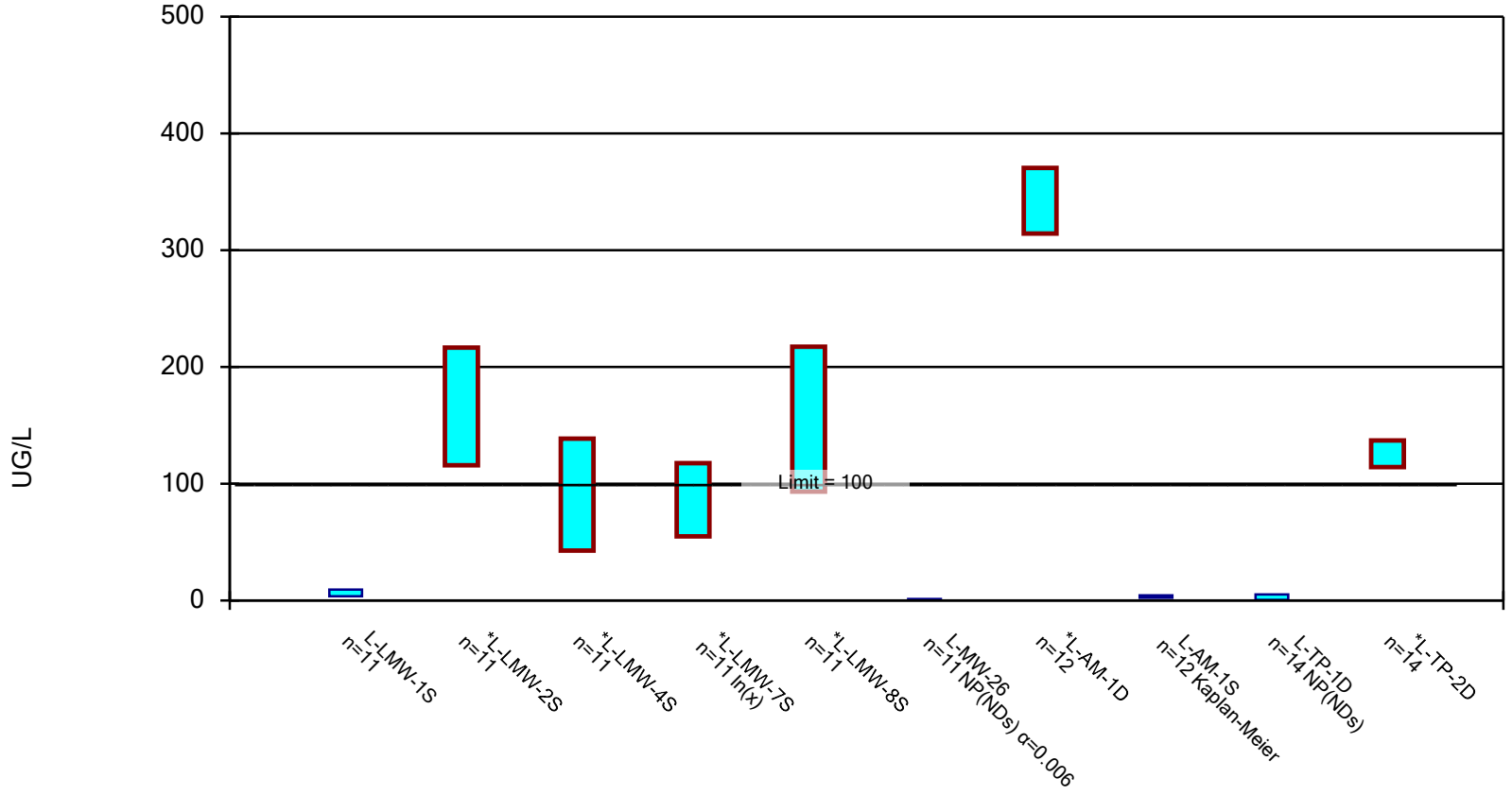


Constituent: MERCURY, TOTAL Analysis Run 3/17/2025 2:10 PM View: Assessment Monitoring

Labadie E.C. Client: Ameren Data: LEC DATA

Parametric and Non-Parametric (NP) Confidence Interval, Corrective Action Mode

Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



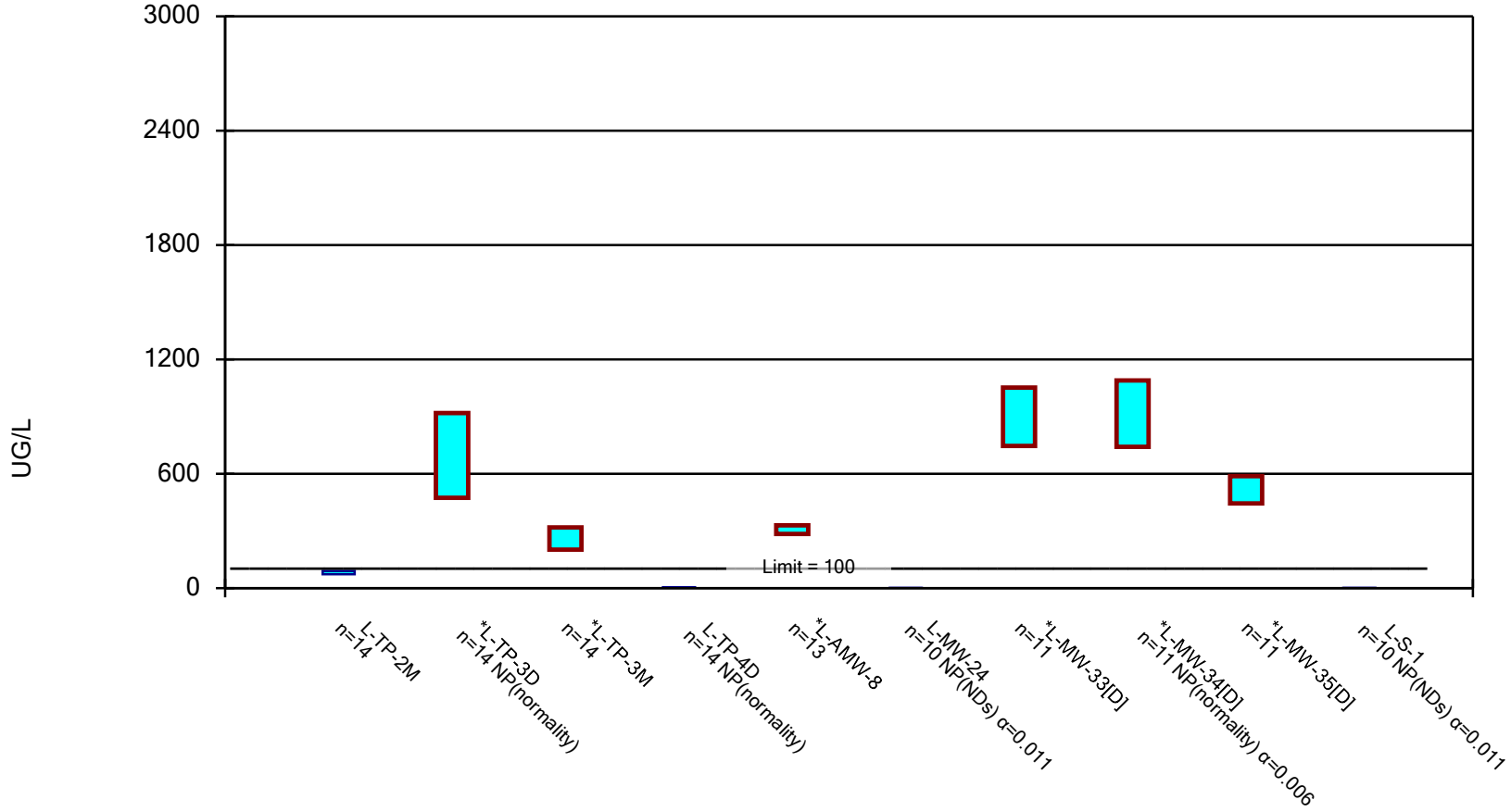
Constituent: MOLYBDENUM, TOTAL Analysis Run 3/17/2025 2:10 PM View: Assessment Monitoring

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.24 Software licensed to Rocksmith Geoengineering. UG

Parametric and Non-Parametric (NP) Confidence Interval, Corrective Action Mode

Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



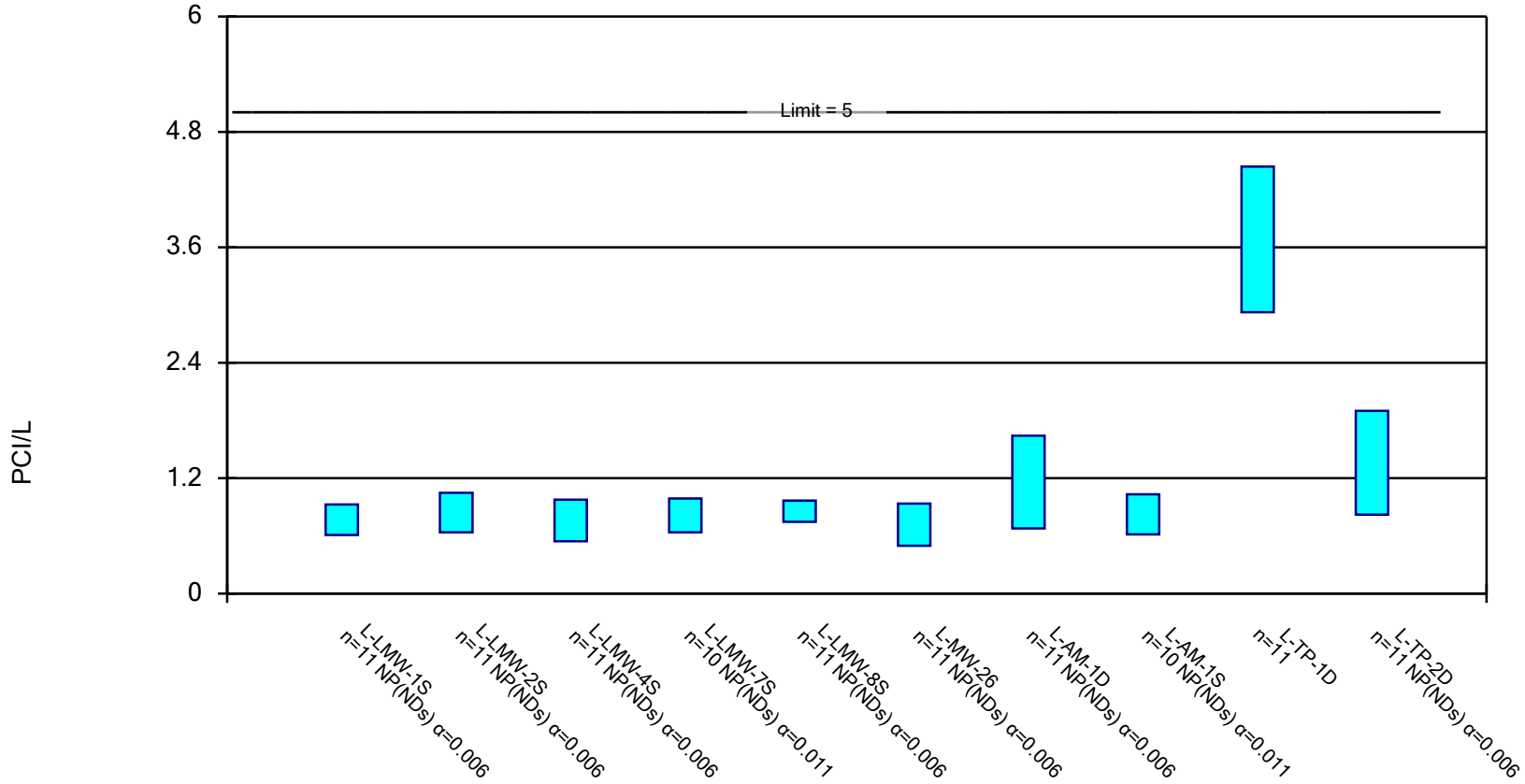
Constituent: MOLYBDENUM, TOTAL Analysis Run 3/17/2025 2:10 PM View: Assessment Monitoring

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.24 Software licensed to Rocksmith Geoengineering. UG

Parametric and Non-Parametric (NP) Confidence Interval, Corrective Action Mode

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



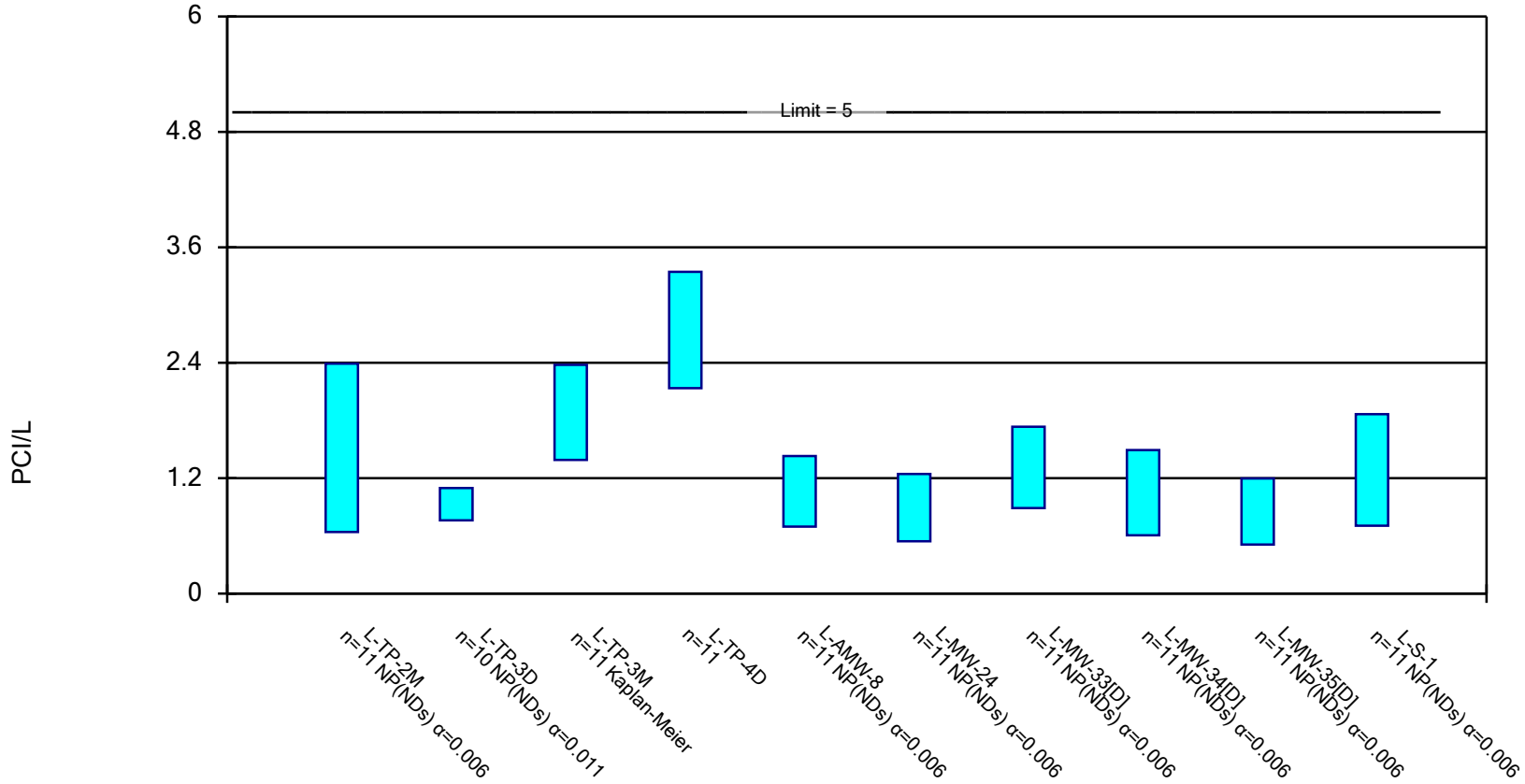
Constituent: Radium [226 + 228] Analysis Run 3/17/2025 2:10 PM View: Assessment Monitoring

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.24 Software licensed to Rocksmith Geoengineering. UG

Parametric and Non-Parametric (NP) Confidence Interval, Corrective Action Mode

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



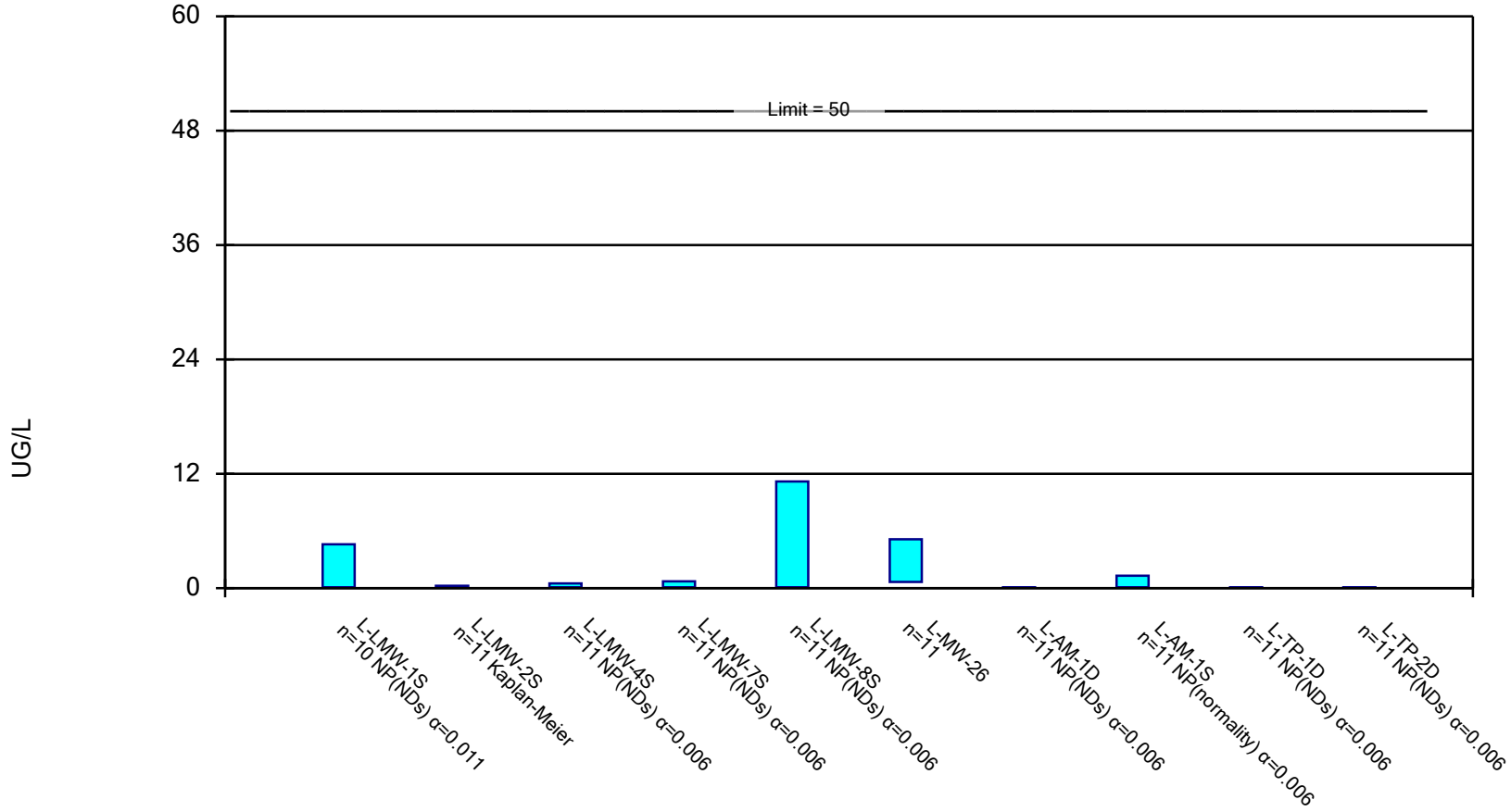
Constituent: Radium [226 + 228] Analysis Run 3/17/2025 2:10 PM View: Assessment Monitoring

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.24 Software licensed to Rocksmith Geoengineering. UG

Parametric and Non-Parametric (NP) Confidence Interval, Corrective Action Mode

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



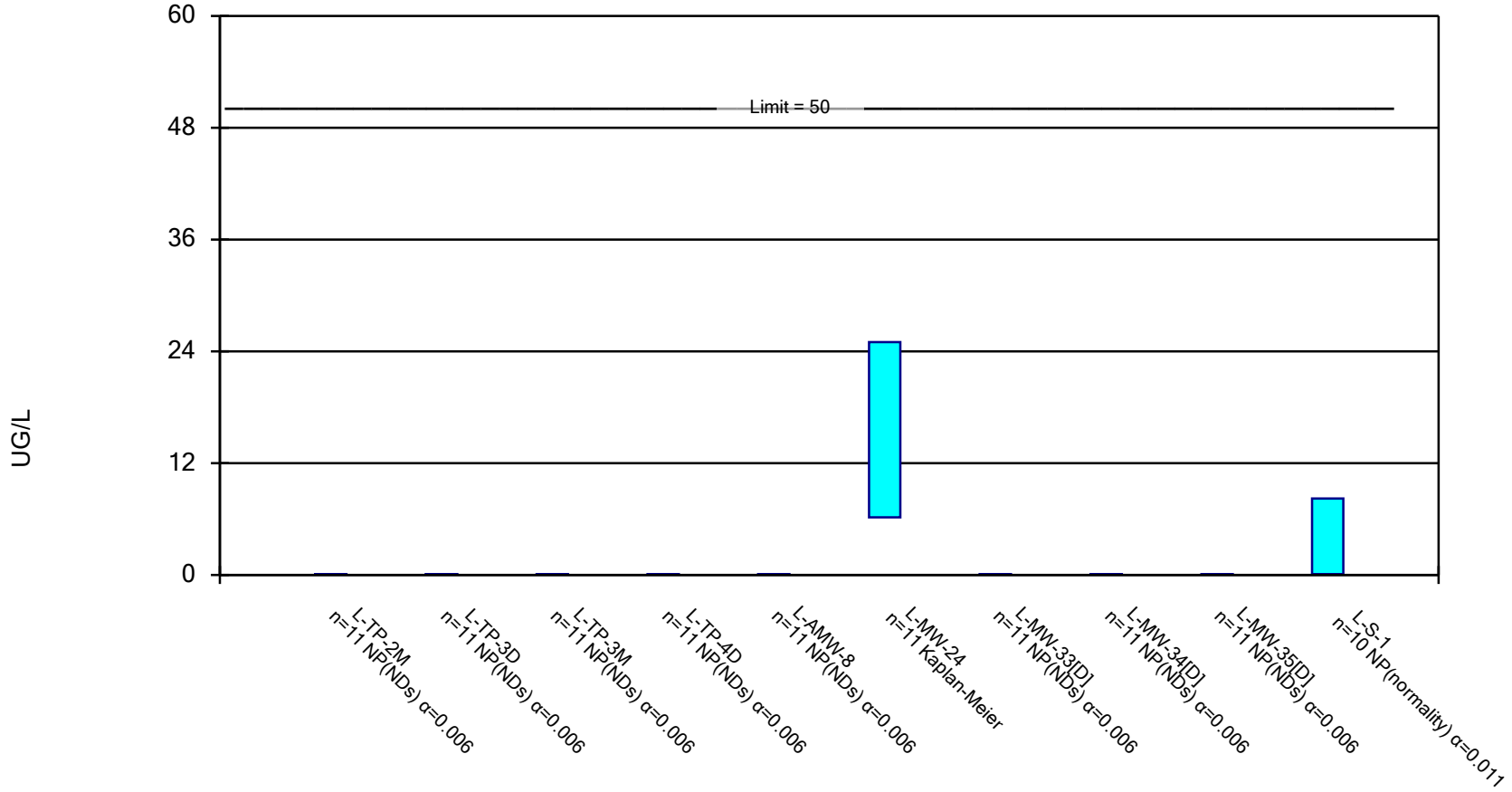
Constituent: SELENIUM, TOTAL Analysis Run 3/17/2025 2:11 PM View: Assessment Monitoring

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.24 Software licensed to Rocksmith Geoengineering. UG

Parametric and Non-Parametric (NP) Confidence Interval, Corrective Action Mode

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



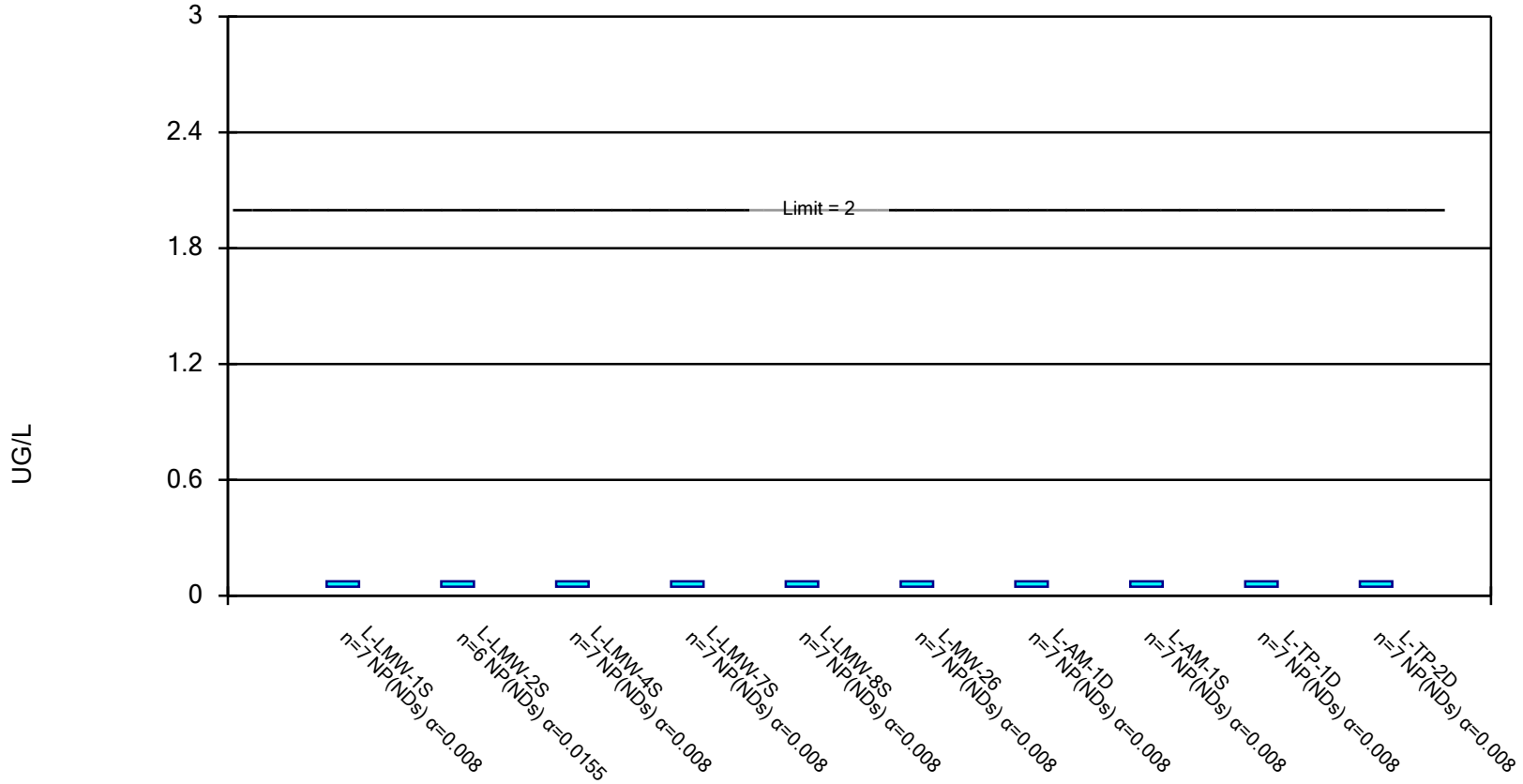
Constituent: SELENIUM, TOTAL Analysis Run 3/17/2025 2:11 PM View: Assessment Monitoring

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.24 Software licensed to Rocksmith Geoengineering. UG

Non-Parametric Confidence Interval, Corrective Action Mode

Compliance Limit is not exceeded.



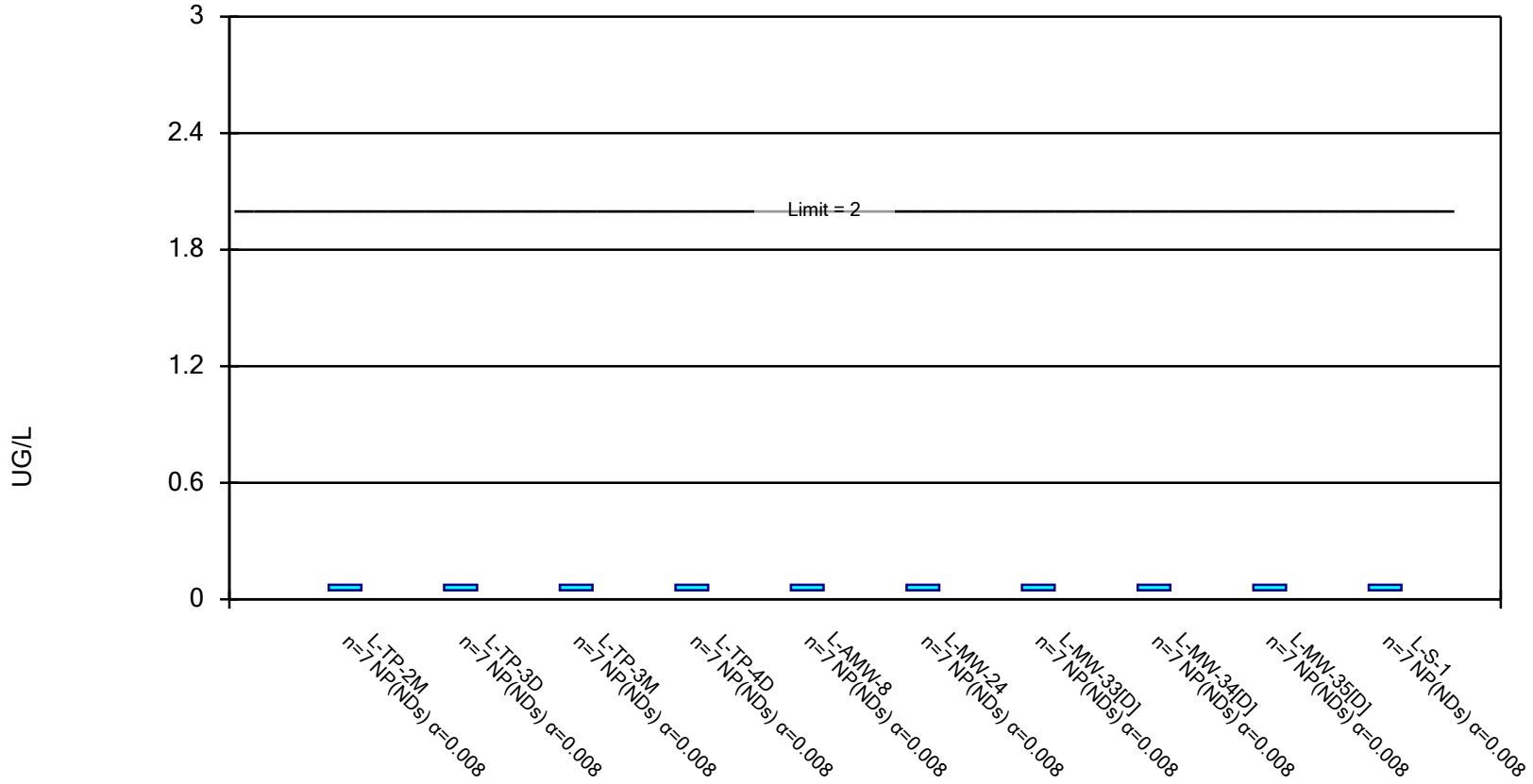
Constituent: THALLIUM, TOTAL Analysis Run 3/17/2025 2:11 PM View: Assessment Monitoring

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.24 Software licensed to Rocksmith Geoengineering. UG

Non-Parametric Confidence Interval, Corrective Action Mode

Compliance Limit is not exceeded.



Constituent: THALLIUM, TOTAL Analysis Run 3/17/2025 2:11 PM View: Assessment Monitoring

Labadie E.C. Client: Ameren Data: LEC DATA

Confidence Interval

Labadie E.C. Client: Ameren Data: LEC DATA Printed 3/17/2025, 2:13 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
ANTIMONY, TOTAL (UG/L)	L-LMW-1S	0.06	0.0485	6	No	9	100	No	0.002	NP (NDs)
ANTIMONY, TOTAL (UG/L)	L-LMW-2S	0.27	0.0485	6	No	9	66.67	No	0.002	NP (NDs)
ANTIMONY, TOTAL (UG/L)	L-LMW-4S	0.06	0.0485	6	No	9	100	No	0.002	NP (NDs)
ANTIMONY, TOTAL (UG/L)	L-LMW-7S	0.06	0.0485	6	No	9	100	No	0.002	NP (NDs)
ANTIMONY, TOTAL (UG/L)	L-LMW-8S	0.06	0.0485	6	No	9	100	No	0.002	NP (NDs)
ANTIMONY, TOTAL (UG/L)	L-MW-26	0.1444	0.09263	6	No	9	33.33	No	0.01	Param.
ANTIMONY, TOTAL (UG/L)	L-AM-1D	0.06	0.0485	6	No	9	100	No	0.002	NP (NDs)
ANTIMONY, TOTAL (UG/L)	L-AM-1S	0.06	0.0485	6	No	9	100	No	0.002	NP (NDs)
ANTIMONY, TOTAL (UG/L)	L-TP-1D	0.16	0.0485	6	No	9	77.78	No	0.002	NP (NDs)
ANTIMONY, TOTAL (UG/L)	L-TP-2D	0.2	0.0485	6	No	9	77.78	No	0.002	NP (NDs)
ANTIMONY, TOTAL (UG/L)	L-TP-2M	0.06	0.0485	6	No	9	100	No	0.002	NP (NDs)
ANTIMONY, TOTAL (UG/L)	L-TP-3D	0.06	0.0485	6	No	9	100	No	0.002	NP (NDs)
ANTIMONY, TOTAL (UG/L)	L-TP-3M	0.06	0.0485	6	No	9	100	No	0.002	NP (NDs)
ANTIMONY, TOTAL (UG/L)	L-TP-4D	0.06	0.0485	6	No	8	100	No	0.004	NP (NDs)
ANTIMONY, TOTAL (UG/L)	L-AMW-8	0.06	0.0485	6	No	8	100	No	0.004	NP (NDs)
ANTIMONY, TOTAL (UG/L)	L-MW-24	0.1895	0.1149	6	No	9	0	No	0.01	Param.
ANTIMONY, TOTAL (UG/L)	L-MW-33[D]	0.06	0.0485	6	No	9	100	No	0.002	NP (NDs)
ANTIMONY, TOTAL (UG/L)	L-MW-34[D]	0.06	0.0485	6	No	9	100	No	0.002	NP (NDs)
ANTIMONY, TOTAL (UG/L)	L-MW-35[D]	0.06	0.0485	6	No	9	100	No	0.002	NP (NDs)
ANTIMONY, TOTAL (UG/L)	L-S-1	0.16	0.0485	6	No	9	44.44	No	0.002	NP (normality)
ARSENIC, TOTAL (UG/L)	L-LMW-1S	10.99	3.324	44.2	No	11	0	No	0.01	Param.
ARSENIC, TOTAL (UG/L)	**L-LMW-2S**	**46**	**39.6**	**44.2**	**Yes**	**11**	**0**	**No**	**0.006**	**NP (normality)**
ARSENIC, TOTAL (UG/L)	L-LMW-4S	25.89	15.11	44.2	No	11	0	No	0.01	Param.
ARSENIC, TOTAL (UG/L)	L-LMW-7S	14.89	9.784	44.2	No	11	0	No	0.01	Param.
ARSENIC, TOTAL (UG/L)	L-LMW-8S	15.68	4.906	44.2	No	11	0	No	0.01	Param.
ARSENIC, TOTAL (UG/L)	L-MW-26	0.5304	0.4569	44.2	No	11	9.091	No	0.01	Param.
ARSENIC, TOTAL (UG/L)	L-AM-1D	3.733	2.904	44.2	No	11	0	No	0.01	Param.
ARSENIC, TOTAL (UG/L)	L-AM-1S	7.77	2.939	44.2	No	11	0	No	0.01	Param.
ARSENIC, TOTAL (UG/L)	L-TP-1D	1.319	1.058	44.2	No	11	0	No	0.01	Param.
ARSENIC, TOTAL (UG/L)	L-TP-2D	11.75	11.01	44.2	No	10	0	No	0.01	Param.
ARSENIC, TOTAL (UG/L)	L-TP-2M	0.6827	0.5101	44.2	No	11	0	No	0.01	Param.
ARSENIC, TOTAL (UG/L)	L-TP-3D	8.184	6.544	44.2	No	11	0	No	0.01	Param.
ARSENIC, TOTAL (UG/L)	L-TP-3M	0.5358	0.3405	44.2	No	11	0	No	0.01	Param.
ARSENIC, TOTAL (UG/L)	L-TP-4D	8.098	7.393	44.2	No	11	0	No	0.01	Param.
ARSENIC, TOTAL (UG/L)	L-AMW-8	0.3934	0.1848	44.2	No	11	0	No	0.01	Param.
ARSENIC, TOTAL (UG/L)	L-MW-24	0.7132	0.4996	44.2	No	11	9.091	No	0.01	Param.
ARSENIC, TOTAL (UG/L)	L-MW-33[D]	3.178	1.749	44.2	No	11	0	No	0.01	Param.
ARSENIC, TOTAL (UG/L)	L-MW-34[D]	3.688	3.348	44.2	No	11	0	No	0.01	Param.
ARSENIC, TOTAL (UG/L)	L-MW-35[D]	0.2077	0.1403	44.2	No	10	0	No	0.01	Param.
ARSENIC, TOTAL (UG/L)	L-S-1	0.6685	0.5224	44.2	No	11	0	No	0.01	Param.
BARIUM, TOTAL (UG/L)	L-LMW-1S	117	76.99	2000	No	10	0	No	0.01	Param.
BARIUM, TOTAL (UG/L)	L-LMW-2S	48.69	36.14	2000	No	11	0	No	0.01	Param.
BARIUM, TOTAL (UG/L)	L-LMW-4S	167.9	141.5	2000	No	11	0	No	0.01	Param.
BARIUM, TOTAL (UG/L)	L-LMW-7S	297.9	217	2000	No	11	0	No	0.01	Param.
BARIUM, TOTAL (UG/L)	L-LMW-8S	152.9	102.4	2000	No	11	0	No	0.01	Param.
BARIUM, TOTAL (UG/L)	L-MW-26	214.9	184.5	2000	No	11	0	No	0.01	Param.
BARIUM, TOTAL (UG/L)	L-AM-1D	73.8	66.08	2000	No	11	0	No	0.01	Param.
BARIUM, TOTAL (UG/L)	L-AM-1S	635.3	557.4	2000	No	11	0	No	0.01	Param.
BARIUM, TOTAL (UG/L)	L-TP-1D	1481	1405	2000	No	11	0	No	0.01	Param.
BARIUM, TOTAL (UG/L)	L-TP-2D	119.5	114.3	2000	No	10	0	No	0.01	Param.

Confidence Interval

Labadie E.C. Client: Ameren Data: LEC DATA Printed 3/17/2025, 2:13 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
BARIUM, TOTAL (UG/L)	L-TP-2M	132.7	117.7	2000	No	9	0	No	0.01	Param.
BARIUM, TOTAL (UG/L)	L-TP-3D	75.38	67.27	2000	No	11	0	No	0.01	Param.
BARIUM, TOTAL (UG/L)	L-TP-3M	271	231.4	2000	No	11	0	No	0.01	Param.
BARIUM, TOTAL (UG/L)	L-TP-4D	441.7	395.9	2000	No	11	0	No	0.01	Param.
BARIUM, TOTAL (UG/L)	L-AMW-8	119.9	104.3	2000	No	10	0	No	0.01	Param.
BARIUM, TOTAL (UG/L)	L-MW-24	212.4	158	2000	No	11	0	No	0.01	Param.
BARIUM, TOTAL (UG/L)	L-MW-33[D]	129.3	96.03	2000	No	11	0	No	0.01	Param.
BARIUM, TOTAL (UG/L)	L-MW-34[D]	108.2	86.28	2000	No	11	0	No	0.01	Param.
BARIUM, TOTAL (UG/L)	L-MW-35[D]	58	45.56	2000	No	11	0	No	0.01	Param.
BARIUM, TOTAL (UG/L)	L-S-1	370	356.3	2000	No	11	0	No	0.01	Param.
BERYLLIUM, TOTAL (UG/L)	L-LMW-1S	0.245	0.06	4	No	7	100	No	0.008	NP (NDs)
BERYLLIUM, TOTAL (UG/L)	L-LMW-2S	0.245	0.06	4	No	7	100	No	0.008	NP (NDs)
BERYLLIUM, TOTAL (UG/L)	L-LMW-4S	0.245	0.06	4	No	7	100	No	0.008	NP (NDs)
BERYLLIUM, TOTAL (UG/L)	L-LMW-7S	0.245	0.06	4	No	7	100	No	0.008	NP (NDs)
BERYLLIUM, TOTAL (UG/L)	L-LMW-8S	0.245	0.06	4	No	6	100	No	0.0155	NP (NDs)
BERYLLIUM, TOTAL (UG/L)	L-MW-26	0.5	0.06	4	No	7	100	No	0.008	NP (NDs)
BERYLLIUM, TOTAL (UG/L)	L-AM-1D	0.245	0.06	4	No	7	100	No	0.008	NP (NDs)
BERYLLIUM, TOTAL (UG/L)	L-AM-1S	0.245	0.06	4	No	7	85.71	No	0.008	NP (NDs)
BERYLLIUM, TOTAL (UG/L)	L-TP-1D	0.245	0.06	4	No	7	71.43	No	0.008	NP (NDs)
BERYLLIUM, TOTAL (UG/L)	L-TP-2D	0.245	0.06	4	No	7	85.71	No	0.008	NP (NDs)
BERYLLIUM, TOTAL (UG/L)	L-TP-2M	0.33	0.06	4	No	7	57.14	No	0.008	NP (NDs)
BERYLLIUM, TOTAL (UG/L)	L-TP-3D	0.245	0.06	4	No	7	100	No	0.008	NP (NDs)
BERYLLIUM, TOTAL (UG/L)	L-TP-3M	0.245	0.06	4	No	7	85.71	No	0.008	NP (NDs)
BERYLLIUM, TOTAL (UG/L)	L-TP-4D	0.245	0.06	4	No	7	100	No	0.008	NP (NDs)
BERYLLIUM, TOTAL (UG/L)	L-AMW-8	0.245	0.06	4	No	7	100	No	0.008	NP (NDs)
BERYLLIUM, TOTAL (UG/L)	L-MW-24	0.245	0.06	4	No	7	100	No	0.008	NP (NDs)
BERYLLIUM, TOTAL (UG/L)	L-MW-33[D]	0.245	0.06	4	No	7	100	No	0.008	NP (NDs)
BERYLLIUM, TOTAL (UG/L)	L-MW-34[D]	0.5	0.06	4	No	7	100	No	0.008	NP (NDs)
BERYLLIUM, TOTAL (UG/L)	L-MW-35[D]	0.245	0.06	4	No	7	85.71	No	0.008	NP (NDs)
BERYLLIUM, TOTAL (UG/L)	L-S-1	0.245	0.06	4	No	7	100	No	0.008	NP (NDs)
CADMIUM, TOTAL (UG/L)	L-LMW-1S	0.069	0.025	5	No	7	57.14	No	0.008	NP (NDs)
CADMIUM, TOTAL (UG/L)	L-LMW-2S	0.25	0.025	5	No	7	85.71	No	0.008	NP (NDs)
CADMIUM, TOTAL (UG/L)	L-LMW-4S	0.07871	0.04944	5	No	7	28.57	No	0.01	Param.
CADMIUM, TOTAL (UG/L)	L-LMW-7S	0.0816	0.05387	5	No	7	28.57	ln(x)	0.01	Param.
CADMIUM, TOTAL (UG/L)	L-LMW-8S	0.1293	0.03539	5	No	7	42.86	No	0.01	Param.
CADMIUM, TOTAL (UG/L)	L-MW-26	0.29	0.025	5	No	7	57.14	No	0.008	NP (NDs)
CADMIUM, TOTAL (UG/L)	L-AM-1D	0.1477	0.06959	5	No	7	28.57	No	0.01	Param.
CADMIUM, TOTAL (UG/L)	L-AM-1S	0.1274	0.05092	5	No	7	42.86	No	0.01	Param.
CADMIUM, TOTAL (UG/L)	L-TP-1D	0.031	0.025	5	No	7	100	No	0.008	NP (NDs)
CADMIUM, TOTAL (UG/L)	L-TP-2D	0.06	0.025	5	No	7	71.43	No	0.008	NP (NDs)
CADMIUM, TOTAL (UG/L)	L-TP-2M	0.031	0.025	5	No	7	100	No	0.008	NP (NDs)
CADMIUM, TOTAL (UG/L)	L-TP-3D	0.2542	0.1272	5	No	7	0	ln(x)	0.01	Param.
CADMIUM, TOTAL (UG/L)	L-TP-3M	0.1311	0.06145	5	No	7	0	No	0.01	Param.
CADMIUM, TOTAL (UG/L)	L-TP-4D	0.031	0.025	5	No	7	100	No	0.008	NP (NDs)
CADMIUM, TOTAL (UG/L)	L-AMW-8	0.1516	0.05838	5	No	7	14.29	No	0.01	Param.
CADMIUM, TOTAL (UG/L)	L-MW-24	0.1	0.025	5	No	7	71.43	No	0.008	NP (NDs)
CADMIUM, TOTAL (UG/L)	L-MW-33[D]	0.39	0.23	5	No	7	0	No	0.008	NP (normality)
CADMIUM, TOTAL (UG/L)	L-MW-34[D]	0.36	0.24	5	No	7	0	No	0.008	NP (normality)
CADMIUM, TOTAL (UG/L)	L-MW-35[D]	0.2307	0.1378	5	No	7	14.29	No	0.01	Param.
CADMIUM, TOTAL (UG/L)	L-S-1	0.25	0.025	5	No	7	57.14	No	0.008	NP (NDs)

Confidence Interval

Labadie E.C. Client: Ameren Data: LEC DATA Printed 3/17/2025, 2:13 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
CHROMIUM, TOTAL (UG/L)	L-LMW-1S	0.5548	0.1957	100	No	10	50	ln(x)	0.01	Param.
CHROMIUM, TOTAL (UG/L)	L-LMW-2S	0.51	0.11	100	No	9	66.67	No	0.002	NP (NDs)
CHROMIUM, TOTAL (UG/L)	L-LMW-4S	0.41	0.11	100	No	10	40	No	0.011	NP (normality)
CHROMIUM, TOTAL (UG/L)	L-LMW-7S	0.5	0.11	100	No	10	60	No	0.011	NP (NDs)
CHROMIUM, TOTAL (UG/L)	L-LMW-8S	0.5	0.11	100	No	10	80	No	0.011	NP (NDs)
CHROMIUM, TOTAL (UG/L)	L-MW-26	0.53	0.11	100	No	10	70	No	0.011	NP (NDs)
CHROMIUM, TOTAL (UG/L)	L-AM-1D	0.7979	0.21	100	No	10	10	ln(x)	0.01	Param.
CHROMIUM, TOTAL (UG/L)	L-AM-1S	0.4329	0.2626	100	No	10	30	No	0.01	Param.
CHROMIUM, TOTAL (UG/L)	L-TP-1D	0.4061	0.2019	100	No	10	40	No	0.01	Param.
CHROMIUM, TOTAL (UG/L)	L-TP-2D	0.354	0.217	100	No	10	50	No	0.01	Param.
CHROMIUM, TOTAL (UG/L)	L-TP-2M	0.4252	0.2016	100	No	10	40	No	0.01	Param.
CHROMIUM, TOTAL (UG/L)	L-TP-3D	0.3739	0.2195	100	No	10	50	No	0.01	Param.
CHROMIUM, TOTAL (UG/L)	L-TP-3M	0.3526	0.2236	100	No	10	50	No	0.01	Param.
CHROMIUM, TOTAL (UG/L)	L-TP-4D	0.44	0.11	100	No	10	60	No	0.011	NP (NDs)
CHROMIUM, TOTAL (UG/L)	L-AMW-8	0.7325	0.2444	100	No	10	40	ln(x)	0.01	Param.
CHROMIUM, TOTAL (UG/L)	L-MW-24	0.5478	0.2312	100	No	10	50	ln(x)	0.01	Param.
CHROMIUM, TOTAL (UG/L)	L-MW-33[D]	1.9	0.11	100	No	9	77.78	No	0.002	NP (NDs)
CHROMIUM, TOTAL (UG/L)	L-MW-34[D]	0.7129	0.2149	100	No	10	50	ln(x)	0.01	Param.
CHROMIUM, TOTAL (UG/L)	L-MW-35[D]	1.4	0.11	100	No	10	60	No	0.011	NP (NDs)
CHROMIUM, TOTAL (UG/L)	L-S-1	0.5928	0.2148	100	No	10	30	ln(x)	0.01	Param.
COBALT, TOTAL (UG/L)	L-LMW-1S	2.5	0.475	6	No	8	75	No	0.004	NP (NDs)
COBALT, TOTAL (UG/L)	L-LMW-2S	0.75	0.39	6	No	8	100	No	0.004	NP (NDs)
COBALT, TOTAL (UG/L)	L-LMW-4S	2.598	0.9039	6	No	8	25	No	0.01	Param.
COBALT, TOTAL (UG/L)	L-LMW-7S	4.5	1.3	6	No	8	0	No	0.004	NP (normality)
COBALT, TOTAL (UG/L)	L-LMW-8S	3.1	0.6	6	No	8	75	No	0.004	NP (NDs)
COBALT, TOTAL (UG/L)	L-MW-26	0.75	0.39	6	No	8	100	No	0.004	NP (NDs)
COBALT, TOTAL (UG/L)	L-AM-1D	0.75	0.475	6	No	8	100	No	0.004	NP (NDs)
COBALT, TOTAL (UG/L)	L-AM-1S	4.833	1.567	6	No	8	12.5	No	0.01	Param.
COBALT, TOTAL (UG/L)	L-TP-1D	0.75	0.475	6	No	6	100	No	0.0155	NP (NDs)
COBALT, TOTAL (UG/L)	L-TP-2D	0.75	0.475	6	No	8	100	No	0.004	NP (NDs)
COBALT, TOTAL (UG/L)	L-TP-2M	0.75	0.475	6	No	8	100	No	0.004	NP (NDs)
COBALT, TOTAL (UG/L)	L-TP-3D	0.75	0.39	6	No	8	100	No	0.004	NP (NDs)
COBALT, TOTAL (UG/L)	L-TP-3M	0.75	0.39	6	No	8	100	No	0.004	NP (NDs)
COBALT, TOTAL (UG/L)	L-TP-4D	0.75	0.39	6	No	8	100	No	0.004	NP (NDs)
COBALT, TOTAL (UG/L)	L-AMW-8	0.75	0.475	6	No	8	100	No	0.004	NP (NDs)
COBALT, TOTAL (UG/L)	L-MW-24	0.75	0.39	6	No	8	100	No	0.004	NP (NDs)
COBALT, TOTAL (UG/L)	L-MW-33[D]	0.75	0.39	6	No	8	100	No	0.004	NP (NDs)
COBALT, TOTAL (UG/L)	L-MW-34[D]	0.75	0.39	6	No	7	100	No	0.008	NP (NDs)
COBALT, TOTAL (UG/L)	L-MW-35[D]	0.75	0.39	6	No	7	100	No	0.008	NP (NDs)
COBALT, TOTAL (UG/L)	L-S-1	2.763	0.912	6	No	8	37.5	No	0.01	Param.
FLUORIDE, TOTAL (MG/L)	L-LMW-1S	0.22	0.06	4	No	14	35.71	No	0.01	NP (normality)
FLUORIDE, TOTAL (MG/L)	L-LMW-2S	0.22	0.06	4	No	11	45.45	No	0.006	NP (normality)
FLUORIDE, TOTAL (MG/L)	L-LMW-4S	0.29	0.06	4	No	12	41.67	No	0.01	NP (normality)
FLUORIDE, TOTAL (MG/L)	L-LMW-7S	0.28	0.043	4	No	12	50	No	0.01	NP (normality)
FLUORIDE, TOTAL (MG/L)	L-LMW-8S	0.4102	0.1569	4	No	13	30.77	No	0.01	Param.
FLUORIDE, TOTAL (MG/L)	L-MW-26	0.22	0.06	4	No	12	58.33	No	0.01	NP (NDs)
FLUORIDE, TOTAL (MG/L)	L-AM-1D	0.4	0.06	4	No	11	36.36	No	0.006	NP (normality)
FLUORIDE, TOTAL (MG/L)	L-AM-1S	0.32	0.06	4	No	11	54.55	No	0.006	NP (NDs)
FLUORIDE, TOTAL (MG/L)	L-TP-1D	0.22	0.06	4	No	11	45.45	No	0.006	NP (normality)
FLUORIDE, TOTAL (MG/L)	L-TP-2D	0.4362	0.1911	4	No	11	9.091	No	0.01	Param.

Confidence Interval

Labadie E.C. Client: Ameren Data: LEC DATA Printed 3/17/2025, 2:13 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
FLUORIDE, TOTAL (MG/L)	L-TP-2M	0.51	0.06	4	No	11	27.27	No	0.006	NP (normality)
FLUORIDE, TOTAL (MG/L)	L-TP-3D	0.35	0.06	4	No	11	54.55	No	0.006	NP (NDs)
FLUORIDE, TOTAL (MG/L)	L-TP-3M	0.33	0.06	4	No	11	45.45	No	0.006	NP (normality)
FLUORIDE, TOTAL (MG/L)	L-TP-4D	0.32	0.06	4	No	11	45.45	No	0.006	NP (normality)
FLUORIDE, TOTAL (MG/L)	L-AMW-8	0.4155	0.1899	4	No	11	27.27	No	0.01	Param.
FLUORIDE, TOTAL (MG/L)	L-MW-24	0.25	0.06	4	No	11	45.45	No	0.006	NP (normality)
FLUORIDE, TOTAL (MG/L)	L-MW-33[D]	0.42	0.06	4	No	11	45.45	No	0.006	NP (normality)
FLUORIDE, TOTAL (MG/L)	L-MW-34[D]	0.34	0.06	4	No	11	45.45	No	0.006	NP (normality)
FLUORIDE, TOTAL (MG/L)	L-MW-35[D]	0.2463	0.09453	4	No	11	45.45	ln(x)	0.01	Param.
FLUORIDE, TOTAL (MG/L)	L-S-1	0.24	0.06	4	No	10	50	No	0.011	NP (normality)
LEAD, TOTAL (UG/L)	L-LMW-1S	3.05	1.9	15	No	7	100	No	0.008	NP (NDs)
LEAD, TOTAL (UG/L)	L-LMW-2S	2.3	1.9	15	No	7	100	No	0.008	NP (NDs)
LEAD, TOTAL (UG/L)	L-LMW-4S	3.05	1.9	15	No	7	100	No	0.008	NP (NDs)
LEAD, TOTAL (UG/L)	L-LMW-7S	3.05	1.9	15	No	6	100	No	0.0155	NP (NDs)
LEAD, TOTAL (UG/L)	L-LMW-8S	4.1	1.9	15	No	7	85.71	No	0.008	NP (NDs)
LEAD, TOTAL (UG/L)	L-MW-26	2.3	1.9	15	No	6	100	No	0.0155	NP (NDs)
LEAD, TOTAL (UG/L)	L-AM-1D	3.05	1.9	15	No	6	100	No	0.0155	NP (NDs)
LEAD, TOTAL (UG/L)	L-AM-1S	3.05	1.9	15	No	6	100	No	0.0155	NP (NDs)
LEAD, TOTAL (UG/L)	L-TP-1D	3.05	1.9	15	No	7	100	No	0.008	NP (NDs)
LEAD, TOTAL (UG/L)	L-TP-2D	3.05	1.9	15	No	7	100	No	0.008	NP (NDs)
LEAD, TOTAL (UG/L)	L-TP-2M	4.2	1.9	15	No	7	85.71	No	0.008	NP (NDs)
LEAD, TOTAL (UG/L)	L-TP-3D	2.3	1.9	15	No	7	100	No	0.008	NP (NDs)
LEAD, TOTAL (UG/L)	L-TP-3M	2.3	1.9	15	No	6	100	No	0.0155	NP (NDs)
LEAD, TOTAL (UG/L)	L-TP-4D	2.3	1.9	15	No	6	100	No	0.0155	NP (NDs)
LEAD, TOTAL (UG/L)	L-AMW-8	3.05	1.9	15	No	7	100	No	0.008	NP (NDs)
LEAD, TOTAL (UG/L)	L-MW-24	2.3	1.9	15	No	6	100	No	0.0155	NP (NDs)
LEAD, TOTAL (UG/L)	L-MW-33[D]	2.3	1.9	15	No	7	100	No	0.008	NP (NDs)
LEAD, TOTAL (UG/L)	L-MW-34[D]	2.3	1.9	15	No	7	100	No	0.008	NP (NDs)
LEAD, TOTAL (UG/L)	L-MW-35[D]	2.3	1.9	15	No	7	100	No	0.008	NP (NDs)
LEAD, TOTAL (UG/L)	L-S-1	4.9	1.9	15	No	7	85.71	No	0.008	NP (NDs)
LITHIUM, TOTAL (UG/L)	L-LMW-1S	17.73	11.97	47.4	No	11	9.091	ln(x)	0.01	Param.
LITHIUM, TOTAL (UG/L)	L-LMW-2S	13.47	10.13	47.4	No	12	0	No	0.01	Param.
LITHIUM, TOTAL (UG/L)	L-LMW-4S	37.98	30.78	47.4	No	11	0	No	0.01	Param.
LITHIUM, TOTAL (UG/L)	L-LMW-7S	47.21	38.5	47.4	No	11	0	No	0.01	Param.
LITHIUM, TOTAL (UG/L)	L-LMW-8S	20.89	13.35	47.4	No	10	10	No	0.01	Param.
LITHIUM, TOTAL (UG/L)	L-MW-26	30.11	25.02	47.4	No	11	0	No	0.01	Param.
LITHIUM, TOTAL (UG/L)	L-AM-1D	38.81	34.95	47.4	No	11	0	No	0.01	Param.
LITHIUM, TOTAL (UG/L)	L-AM-1S	38.05	32.37	47.4	No	11	0	No	0.01	Param.
LITHIUM, TOTAL (UG/L)	L-TP-1D	26.34	23.92	47.4	No	10	0	No	0.01	Param.
LITHIUM, TOTAL (UG/L)	L-TP-2D	43.26	40.18	47.4	No	11	0	No	0.01	Param.
LITHIUM, TOTAL (UG/L)	L-TP-2M	35.83	31.69	47.4	No	10	0	No	0.01	Param.
LITHIUM, TOTAL (UG/L)	L-TP-3D	34.14	29.44	47.4	No	11	0	No	0.01	Param.
LITHIUM, TOTAL (UG/L)	L-TP-3M	35.59	30.99	47.4	No	11	0	No	0.01	Param.
LITHIUM, TOTAL (UG/L)	L-TP-4D	25.35	22.03	47.4	No	10	0	No	0.01	Param.
LITHIUM, TOTAL (UG/L)	L-AMW-8	19.15	15.18	47.4	No	11	0	No	0.01	Param.
LITHIUM, TOTAL (UG/L)	L-MW-24	23.13	17.63	47.4	No	11	0	No	0.01	Param.
LITHIUM, TOTAL (UG/L)	L-MW-33[D]	35.73	33.05	47.4	No	9	0	No	0.01	Param.
LITHIUM, TOTAL (UG/L)	L-MW-34[D]	37.73	34.04	47.4	No	11	0	No	0.01	Param.
LITHIUM, TOTAL (UG/L)	L-MW-35[D]	29.89	26.18	47.4	No	11	0	No	0.01	Param.
LITHIUM, TOTAL (UG/L)	L-S-1	28.33	20.9	47.4	No	11	0	No	0.01	Param.

Confidence Interval

Labadie E.C. Client: Ameren Data: LEC DATA Printed 3/17/2025, 2:13 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
MERCURY, TOTAL (UG/L)	L-LMW-1S	0.06	0.029	2	No	7	100	No	0.008	NP (NDs)
MERCURY, TOTAL (UG/L)	L-LMW-2S	0.06	0.029	2	No	7	100	No	0.008	NP (NDs)
MERCURY, TOTAL (UG/L)	L-LMW-4S	0.06	0.029	2	No	7	100	No	0.008	NP (NDs)
MERCURY, TOTAL (UG/L)	L-LMW-7S	0.06	0.029	2	No	7	100	No	0.008	NP (NDs)
MERCURY, TOTAL (UG/L)	L-LMW-8S	0.06	0.029	2	No	7	100	No	0.008	NP (NDs)
MERCURY, TOTAL (UG/L)	L-MW-26	0.06	0.029	2	No	7	100	No	0.008	NP (NDs)
MERCURY, TOTAL (UG/L)	L-AM-1D	0.06	0.029	2	No	7	100	No	0.008	NP (NDs)
MERCURY, TOTAL (UG/L)	L-AM-1S	0.06	0.029	2	No	7	100	No	0.008	NP (NDs)
MERCURY, TOTAL (UG/L)	L-TP-1D	0.06	0.029	2	No	7	100	No	0.008	NP (NDs)
MERCURY, TOTAL (UG/L)	L-TP-2D	0.06	0.029	2	No	7	100	No	0.008	NP (NDs)
MERCURY, TOTAL (UG/L)	L-TP-2M	0.06	0.029	2	No	7	100	No	0.008	NP (NDs)
MERCURY, TOTAL (UG/L)	L-TP-3D	0.06	0.029	2	No	7	100	No	0.008	NP (NDs)
MERCURY, TOTAL (UG/L)	L-TP-3M	0.06	0.029	2	No	7	100	No	0.008	NP (NDs)
MERCURY, TOTAL (UG/L)	L-TP-4D	0.06	0.029	2	No	7	100	No	0.008	NP (NDs)
MERCURY, TOTAL (UG/L)	L-AMW-8	0.06	0.029	2	No	7	100	No	0.008	NP (NDs)
MERCURY, TOTAL (UG/L)	L-MW-24	0.06	0.029	2	No	7	100	No	0.008	NP (NDs)
MERCURY, TOTAL (UG/L)	L-MW-33[D]	0.06	0.029	2	No	7	100	No	0.008	NP (NDs)
MERCURY, TOTAL (UG/L)	L-MW-34[D]	0.06	0.029	2	No	7	100	No	0.008	NP (NDs)
MERCURY, TOTAL (UG/L)	L-MW-35[D]	0.06	0.029	2	No	7	100	No	0.008	NP (NDs)
MERCURY, TOTAL (UG/L)	L-S-1	0.06	0.029	2	No	7	100	No	0.008	NP (NDs)
MOLYBDENUM, TOTAL (UG/L)	L-LMW-1S	9.4	3.582	100	No	11	9.091	No	0.01	Param.
MOLYBDENUM, TOTAL (UG/L)	**L-LMW-2S**	**216.7**	**115.7**	**100**	**Yes**	**11**	**0**	**No**	**0.01**	**Param.**
MOLYBDENUM, TOTAL (UG/L)	**L-LMW-4S**	**138.7**	**42.82**	**100**	**Yes**	**11**	**0**	**No**	**0.01**	**Param.**
MOLYBDENUM, TOTAL (UG/L)	**L-LMW-7S**	**117.5**	**55.03**	**100**	**Yes**	**11**	**0**	**ln(x)**	**0.01**	**Param.**
MOLYBDENUM, TOTAL (UG/L)	**L-LMW-8S**	**217.4**	**93.15**	**100**	**Yes**	**11**	**0**	**No**	**0.01**	**Param.**
MOLYBDENUM, TOTAL (UG/L)	L-MW-26	1.3	0.5	100	No	11	81.82	No	0.006	NP (NDs)
MOLYBDENUM, TOTAL (UG/L)	**L-AM-1D**	**370.5**	**314.2**	**100**	**Yes**	**12**	**0**	**No**	**0.01**	**Param.**
MOLYBDENUM, TOTAL (UG/L)	L-AM-1S	4.503	2.317	100	No	12	25	No	0.01	Param.
MOLYBDENUM, TOTAL (UG/L)	L-TP-1D	5.1	0.5	100	No	14	85.71	No	0.01	NP (NDs)
MOLYBDENUM, TOTAL (UG/L)	**L-TP-2D**	**137**	**114.1**	**100**	**Yes**	**14**	**0**	**No**	**0.01**	**Param.**
MOLYBDENUM, TOTAL (UG/L)	L-TP-2M	91.05	72.49	100	No	14	0	No	0.01	Param.
MOLYBDENUM, TOTAL (UG/L)	**L-TP-3D**	**918**	**474**	**100**	**Yes**	**14**	**0**	**No**	**0.01**	**NP (normality)**
MOLYBDENUM, TOTAL (UG/L)	**L-TP-3M**	**319.5**	**202.1**	**100**	**Yes**	**14**	**0**	**No**	**0.01**	**Param.**
MOLYBDENUM, TOTAL (UG/L)	L-TP-4D	4.1	2.4	100	No	14	14.29	No	0.01	NP (normality)
MOLYBDENUM, TOTAL (UG/L)	**L-AMW-8**	**329.5**	**284.9**	**100**	**Yes**	**13**	**0**	**No**	**0.01**	**Param.**
MOLYBDENUM, TOTAL (UG/L)	L-MW-24	2.1	0.7	100	No	10	60	No	0.011	NP (NDs)
MOLYBDENUM, TOTAL (UG/L)	**L-MW-33[D]**	**1053**	**745.8**	**100**	**Yes**	**11**	**0**	**No**	**0.01**	**Param.**
MOLYBDENUM, TOTAL (UG/L)	**L-MW-34[D]**	**1090**	**741**	**100**	**Yes**	**11**	**0**	**No**	**0.006**	**NP (normality)**
MOLYBDENUM, TOTAL (UG/L)	**L-MW-35[D]**	**588.3**	**445.4**	**100**	**Yes**	**11**	**0**	**No**	**0.01**	**Param.**
MOLYBDENUM, TOTAL (UG/L)	L-S-1	1.1	0.5	100	No	10	90	No	0.011	NP (NDs)
Radium [226 + 228] (PCI/L)	L-LMW-1S	0.925	0.608	5	No	11	100	No	0.006	NP (NDs)
Radium [226 + 228] (PCI/L)	L-LMW-2S	1.048	0.6365	5	No	11	100	No	0.006	NP (NDs)
Radium [226 + 228] (PCI/L)	L-LMW-4S	0.9765	0.5448	5	No	11	100	No	0.006	NP (NDs)
Radium [226 + 228] (PCI/L)	L-LMW-7S	0.9895	0.6365	5	No	10	100	No	0.011	NP (NDs)
Radium [226 + 228] (PCI/L)	L-LMW-8S	0.9655	0.746	5	No	11	100	No	0.006	NP (NDs)
Radium [226 + 228] (PCI/L)	L-MW-26	0.9355	0.498	5	No	11	100	No	0.006	NP (NDs)
Radium [226 + 228] (PCI/L)	L-AM-1D	1.641	0.6775	5	No	11	81.82	No	0.006	NP (NDs)
Radium [226 + 228] (PCI/L)	L-AM-1S	1.031	0.6165	5	No	10	100	No	0.011	NP (NDs)
Radium [226 + 228] (PCI/L)	L-TP-1D	4.438	2.925	5	No	11	0	No	0.01	Param.
Radium [226 + 228] (PCI/L)	L-TP-2D	1.899	0.8205	5	No	11	72.73	No	0.006	NP (NDs)

Confidence Interval

Labadie E.C. Client: Ameren Data: LEC DATA Printed 3/17/2025, 2:13 PM

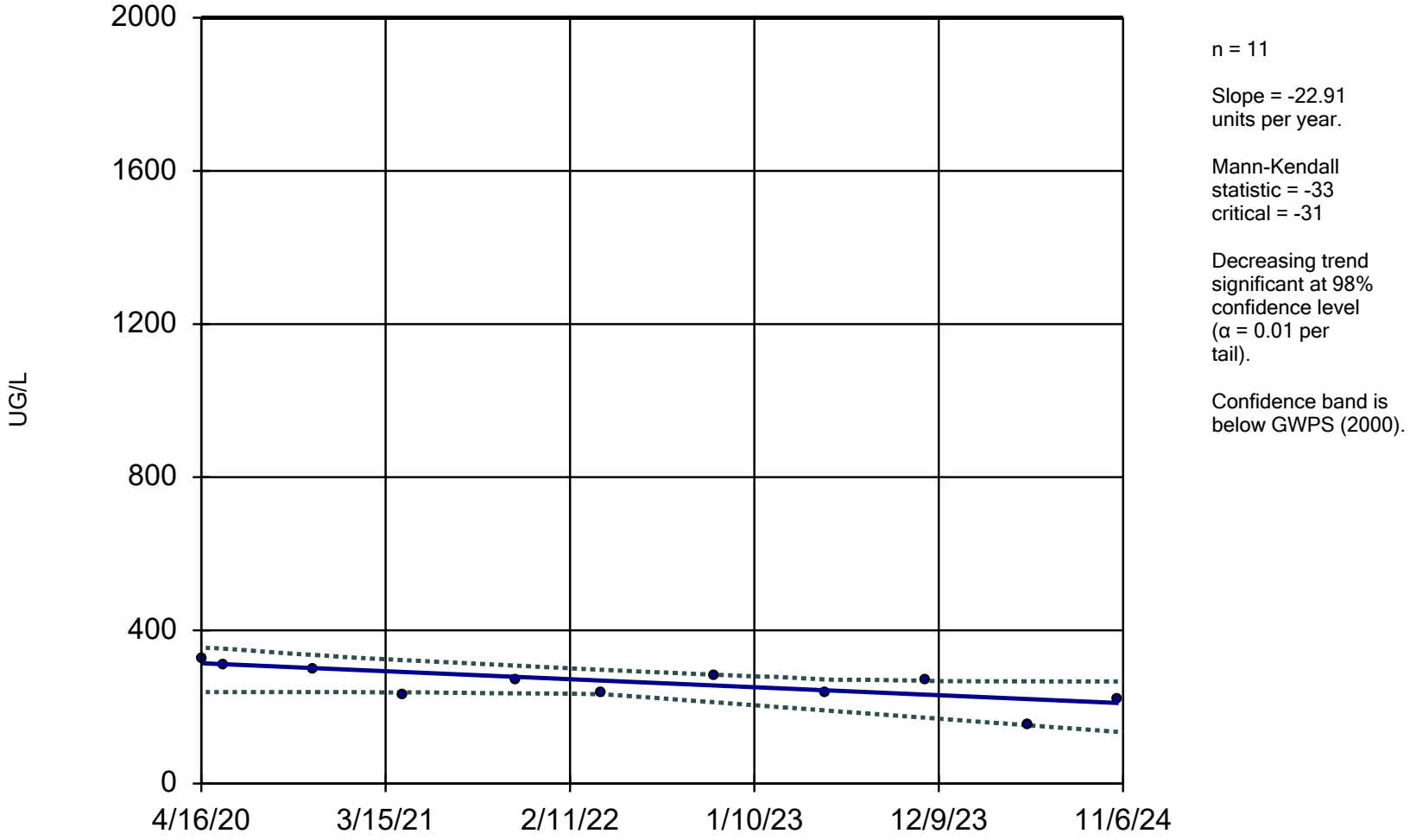
Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Radium [226 + 228] (PCI/L)	L-TP-2M	2.391	0.64	5	No	11	54.55	No	0.006	NP (NDs)
Radium [226 + 228] (PCI/L)	L-TP-3D	1.098	0.762	5	No	10	100	No	0.011	NP (NDs)
Radium [226 + 228] (PCI/L)	L-TP-3M	2.379	1.39	5	No	11	36.36	No	0.01	Param.
Radium [226 + 228] (PCI/L)	L-TP-4D	3.344	2.135	5	No	11	9.091	No	0.01	Param.
Radium [226 + 228] (PCI/L)	L-AMW-8	1.429	0.6975	5	No	11	81.82	No	0.006	NP (NDs)
Radium [226 + 228] (PCI/L)	L-MW-24	1.245	0.5455	5	No	11	81.82	No	0.006	NP (NDs)
Radium [226 + 228] (PCI/L)	L-MW-33[D]	1.734	0.89	5	No	11	72.73	No	0.006	NP (NDs)
Radium [226 + 228] (PCI/L)	L-MW-34[D]	1.491	0.606	5	No	11	72.73	No	0.006	NP (NDs)
Radium [226 + 228] (PCI/L)	L-MW-35[D]	1.197	0.509	5	No	11	81.82	No	0.006	NP (NDs)
Radium [226 + 228] (PCI/L)	L-S-1	1.865	0.706	5	No	11	72.73	No	0.006	NP (NDs)
SELENIUM, TOTAL (UG/L)	L-LMW-1S	4.6	0.09	50	No	10	60	No	0.011	NP (NDs)
SELENIUM, TOTAL (UG/L)	L-LMW-2S	0.2499	0.1689	50	No	11	36.36	No	0.01	Param.
SELENIUM, TOTAL (UG/L)	L-LMW-4S	0.49	0.09	50	No	11	63.64	No	0.006	NP (NDs)
SELENIUM, TOTAL (UG/L)	L-LMW-7S	0.71	0.09	50	No	11	72.73	No	0.006	NP (NDs)
SELENIUM, TOTAL (UG/L)	L-LMW-8S	11.2	0.09	50	No	11	54.55	No	0.006	NP (NDs)
SELENIUM, TOTAL (UG/L)	L-MW-26	5.131	0.6652	50	No	11	0	No	0.01	Param.
SELENIUM, TOTAL (UG/L)	L-AM-1D	0.09	0.09	50	No	11	100	No	0.006	NP (NDs)
SELENIUM, TOTAL (UG/L)	L-AM-1S	1.3	0.09	50	No	11	45.45	No	0.006	NP (normality)
SELENIUM, TOTAL (UG/L)	L-TP-1D	0.09	0.09	50	No	11	100	No	0.006	NP (NDs)
SELENIUM, TOTAL (UG/L)	L-TP-2D	0.09	0.09	50	No	11	100	No	0.006	NP (NDs)
SELENIUM, TOTAL (UG/L)	L-TP-2M	0.09	0.09	50	No	11	100	No	0.006	NP (NDs)
SELENIUM, TOTAL (UG/L)	L-TP-3D	0.09	0.09	50	No	11	100	No	0.006	NP (NDs)
SELENIUM, TOTAL (UG/L)	L-TP-3M	0.09	0.09	50	No	11	100	No	0.006	NP (NDs)
SELENIUM, TOTAL (UG/L)	L-TP-4D	0.09	0.09	50	No	11	100	No	0.006	NP (NDs)
SELENIUM, TOTAL (UG/L)	L-AMW-8	0.09	0.09	50	No	11	100	No	0.006	NP (NDs)
SELENIUM, TOTAL (UG/L)	L-MW-24	24.98	6.196	50	No	11	18.18	No	0.01	Param.
SELENIUM, TOTAL (UG/L)	L-MW-33[D]	0.09	0.09	50	No	11	100	No	0.006	NP (NDs)
SELENIUM, TOTAL (UG/L)	L-MW-34[D]	0.09	0.09	50	No	11	100	No	0.006	NP (NDs)
SELENIUM, TOTAL (UG/L)	L-MW-35[D]	0.09	0.09	50	No	11	100	No	0.006	NP (NDs)
SELENIUM, TOTAL (UG/L)	L-S-1	8.2	0.09	50	No	10	40	No	0.011	NP (normality)
THALLIUM, TOTAL (UG/L)	L-LMW-1S	0.075	0.0465	2	No	7	100	No	0.008	NP (NDs)
THALLIUM, TOTAL (UG/L)	L-LMW-2S	0.075	0.0465	2	No	6	100	No	0.0155	NP (NDs)
THALLIUM, TOTAL (UG/L)	L-LMW-4S	0.075	0.0465	2	No	7	100	No	0.008	NP (NDs)
THALLIUM, TOTAL (UG/L)	L-LMW-7S	0.075	0.0465	2	No	7	100	No	0.008	NP (NDs)
THALLIUM, TOTAL (UG/L)	L-LMW-8S	0.075	0.0465	2	No	7	100	No	0.008	NP (NDs)
THALLIUM, TOTAL (UG/L)	L-MW-26	0.075	0.0465	2	No	7	100	No	0.008	NP (NDs)
THALLIUM, TOTAL (UG/L)	L-AM-1D	0.075	0.0465	2	No	7	100	No	0.008	NP (NDs)
THALLIUM, TOTAL (UG/L)	L-AM-1S	0.075	0.0465	2	No	7	100	No	0.008	NP (NDs)
THALLIUM, TOTAL (UG/L)	L-TP-1D	0.075	0.0465	2	No	7	100	No	0.008	NP (NDs)
THALLIUM, TOTAL (UG/L)	L-TP-2D	0.075	0.0465	2	No	7	100	No	0.008	NP (NDs)
THALLIUM, TOTAL (UG/L)	L-TP-2M	0.075	0.0465	2	No	7	100	No	0.008	NP (NDs)
THALLIUM, TOTAL (UG/L)	L-TP-3D	0.075	0.0465	2	No	7	100	No	0.008	NP (NDs)
THALLIUM, TOTAL (UG/L)	L-TP-3M	0.075	0.0465	2	No	7	100	No	0.008	NP (NDs)
THALLIUM, TOTAL (UG/L)	L-TP-4D	0.075	0.0465	2	No	7	100	No	0.008	NP (NDs)
THALLIUM, TOTAL (UG/L)	L-AMW-8	0.075	0.0465	2	No	7	100	No	0.008	NP (NDs)
THALLIUM, TOTAL (UG/L)	L-MW-24	0.075	0.0465	2	No	7	100	No	0.008	NP (NDs)
THALLIUM, TOTAL (UG/L)	L-MW-33[D]	0.075	0.0465	2	No	7	100	No	0.008	NP (NDs)
THALLIUM, TOTAL (UG/L)	L-MW-34[D]	0.075	0.0465	2	No	7	100	No	0.008	NP (NDs)
THALLIUM, TOTAL (UG/L)	L-MW-35[D]	0.075	0.0465	2	No	7	100	No	0.008	NP (NDs)
THALLIUM, TOTAL (UG/L)	L-S-1	0.075	0.0465	2	No	7	100	No	0.008	NP (NDs)

Appendix B
Sanitas Trending Confidence Bands Statistical Output

Sanitas™ v.10.0.24 Software licensed to Rocksmith Geoengineering. UG

Sen's Slope and 95% Confidence Band

L-LMW-7S



n = 11

Slope = -22.91 units per year.

Mann-Kendall statistic = -33
critical = -31

Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

Confidence band is below GWPS (2000).

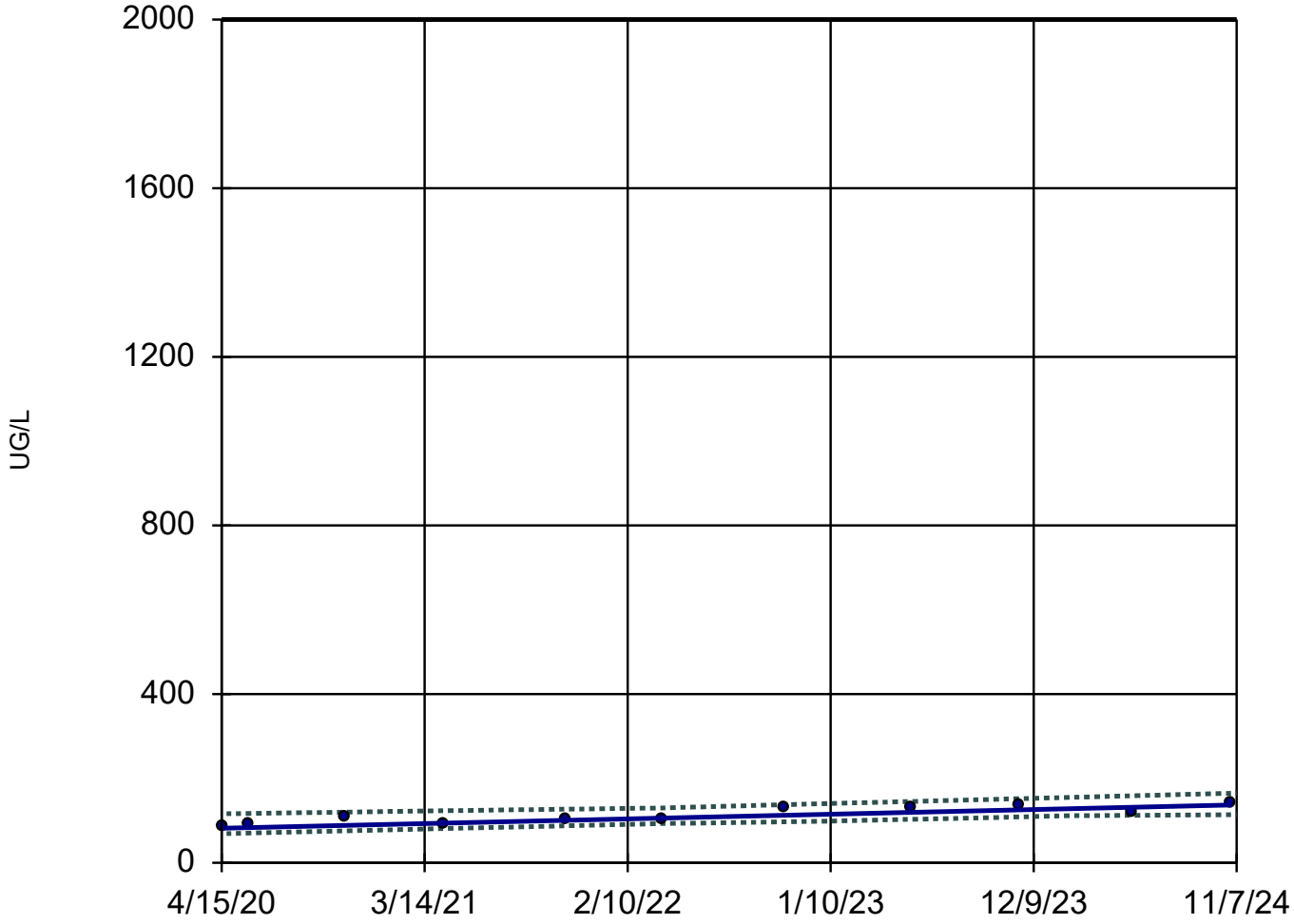
Constituent: BARIUM, TOTAL Analysis Run 3/19/2025 5:09 PM View: Corrective Action

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.24 Software licensed to Rocksmith Geoengineering. UG

Sen's Slope and 95% Confidence Band

L-MW-33[D]



n = 11

Slope = 12.11 units per year.

Mann-Kendall statistic = 40
critical = 31

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Confidence band is below GWPS (2000).

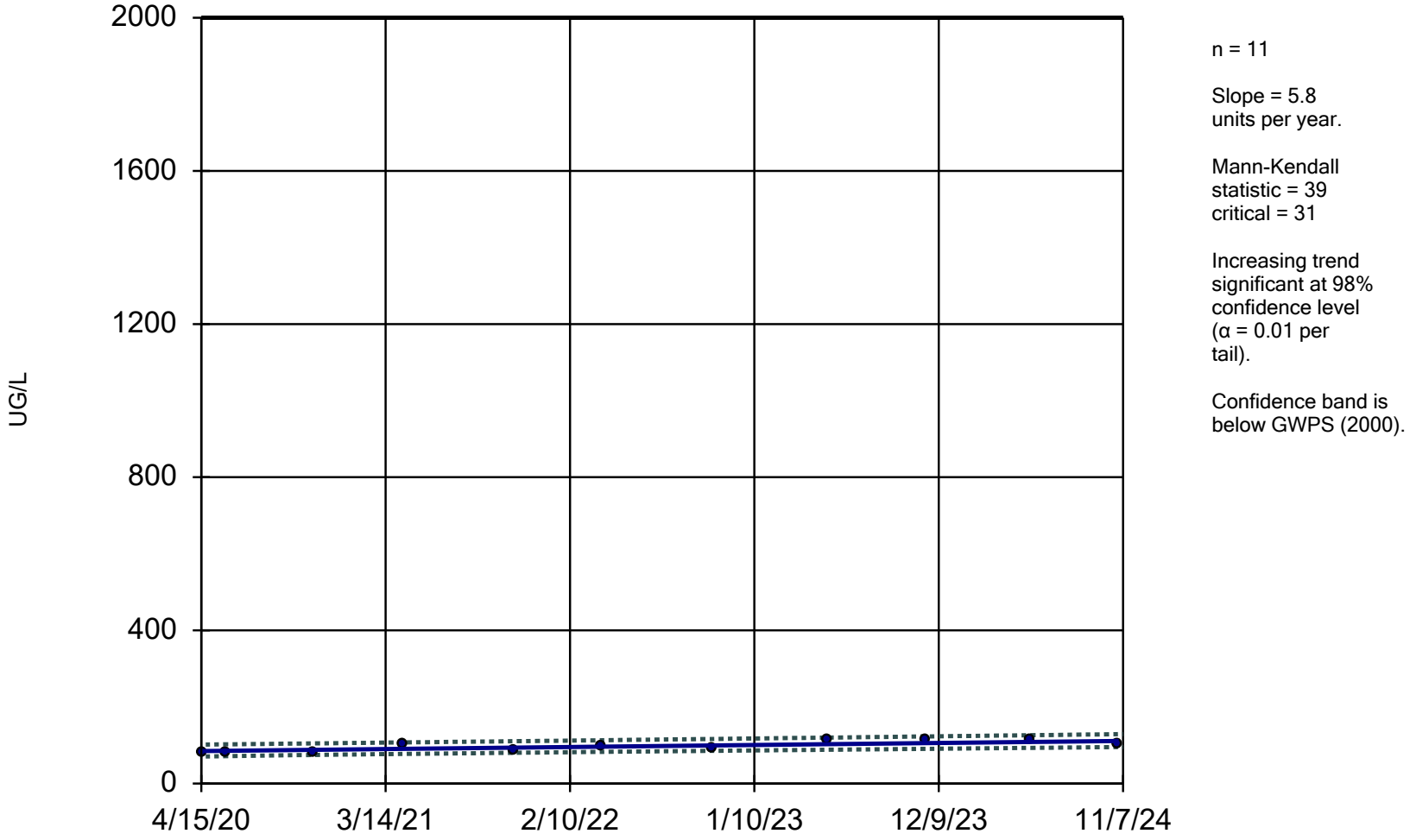
Constituent: BARIUM, TOTAL Analysis Run 3/19/2025 5:09 PM View: Corrective Action

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.24 Software licensed to Rocksmith Geoengineering. UG

Sen's Slope and 95% Confidence Band

L-MW-34[D]



n = 11

Slope = 5.8
units per year.

Mann-Kendall
statistic = 39
critical = 31

Increasing trend
significant at 98%
confidence level
(α = 0.01 per
tail).

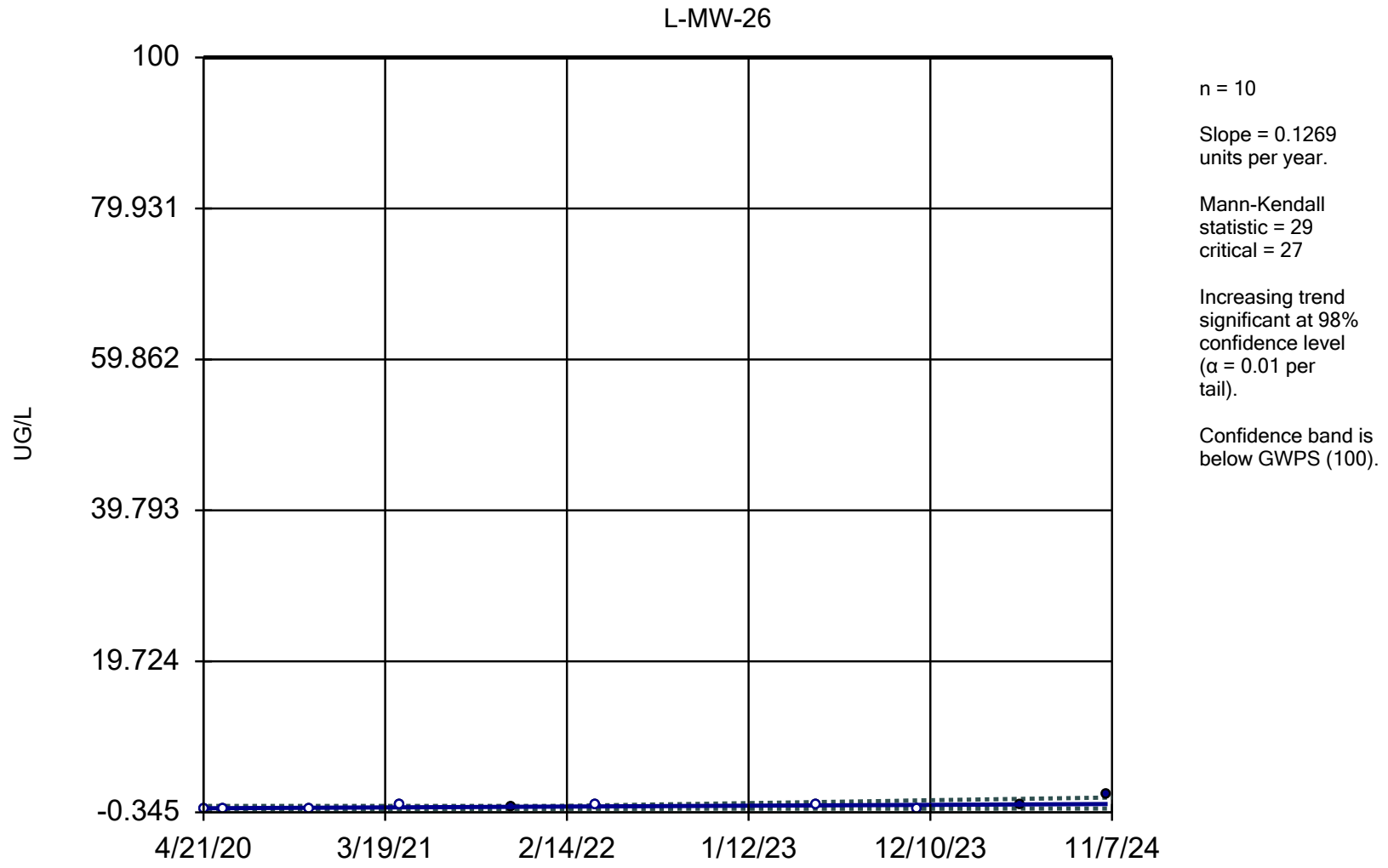
Confidence band is
below GWPS (2000).

Constituent: BARIUM, TOTAL Analysis Run 3/19/2025 5:09 PM View: Corrective Action

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.24 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Sen's Slope and 95% Confidence Band

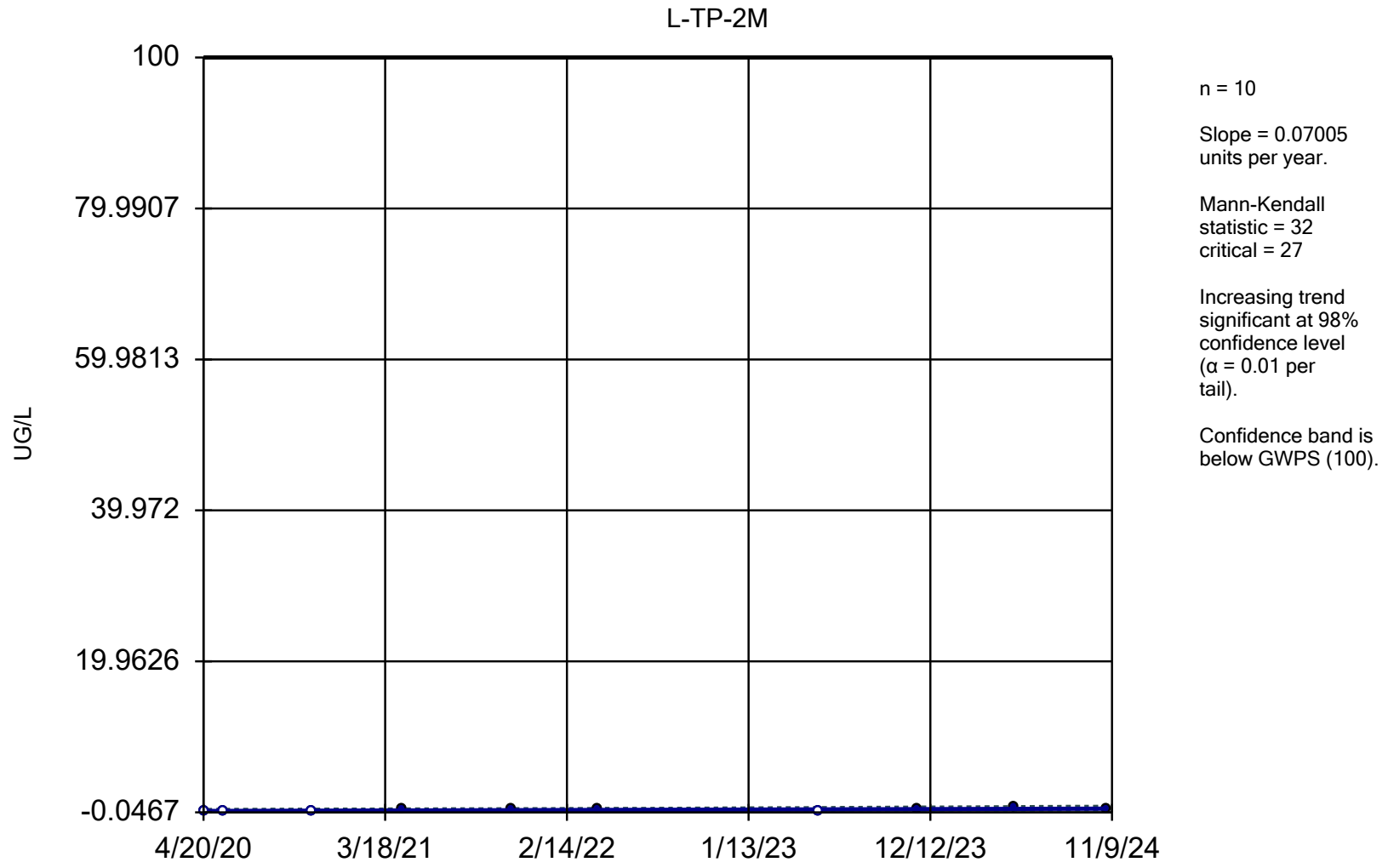


Constituent: CHROMIUM, TOTAL Analysis Run 3/19/2025 5:09 PM View: Corrective Action

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.24 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Sen's Slope and 95% Confidence Band

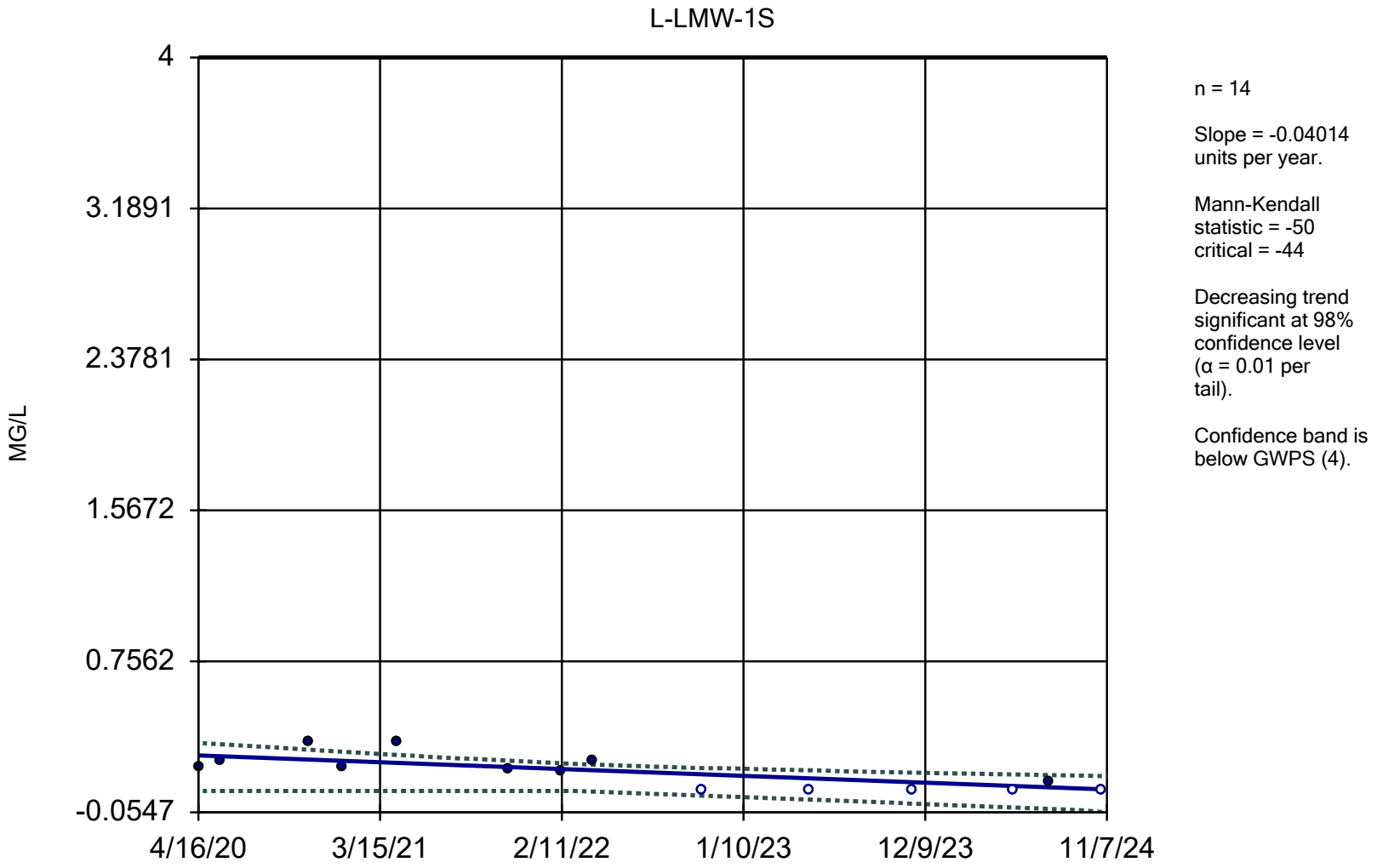


Constituent: CHROMIUM, TOTAL Analysis Run 3/19/2025 5:09 PM View: Corrective Action

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.24 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Sen's Slope and 95% Confidence Band

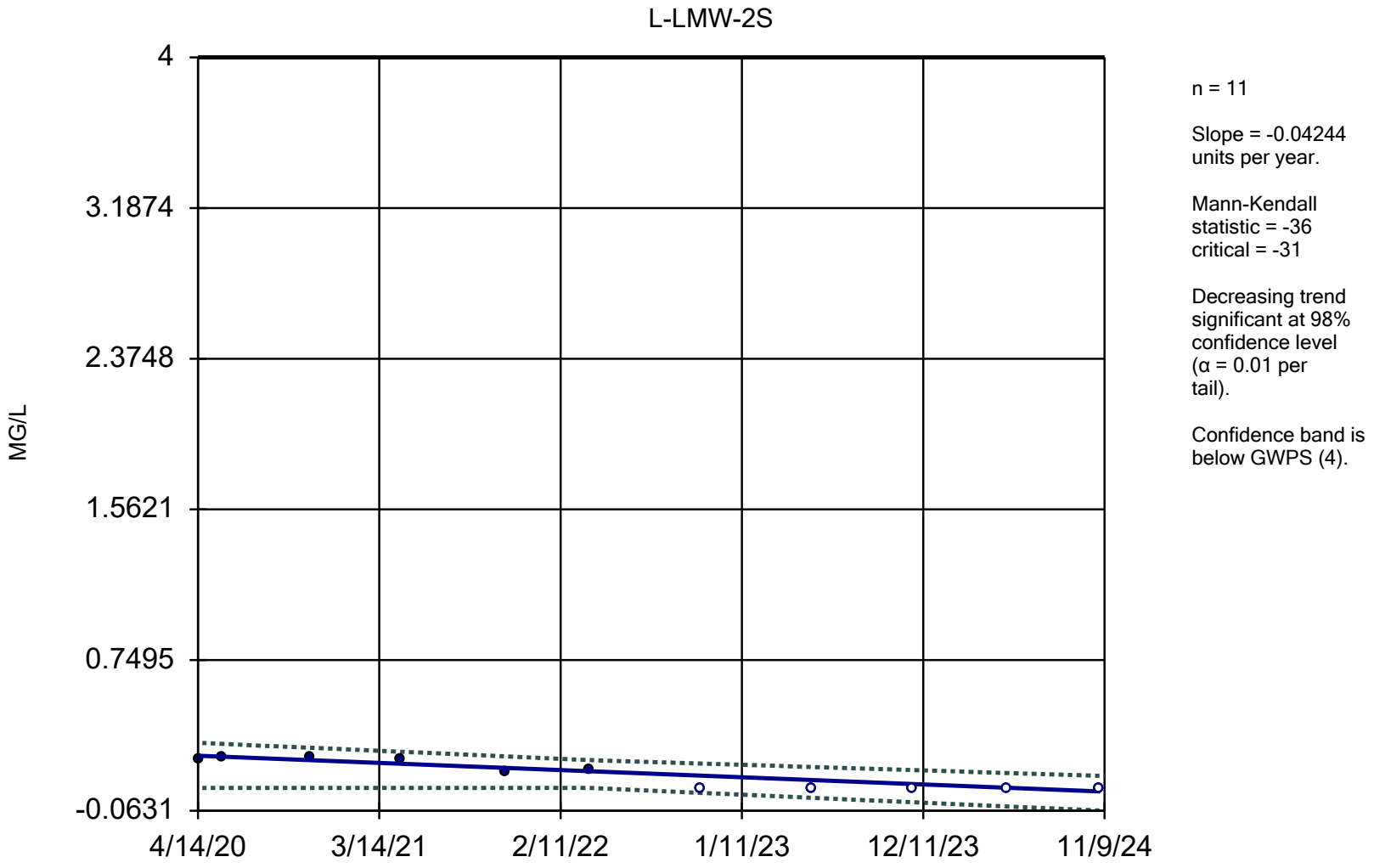


Constituent: FLUORIDE, TOTAL Analysis Run 3/19/2025 5:09 PM View: Corrective Action

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.24 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Sen's Slope and 95% Confidence Band

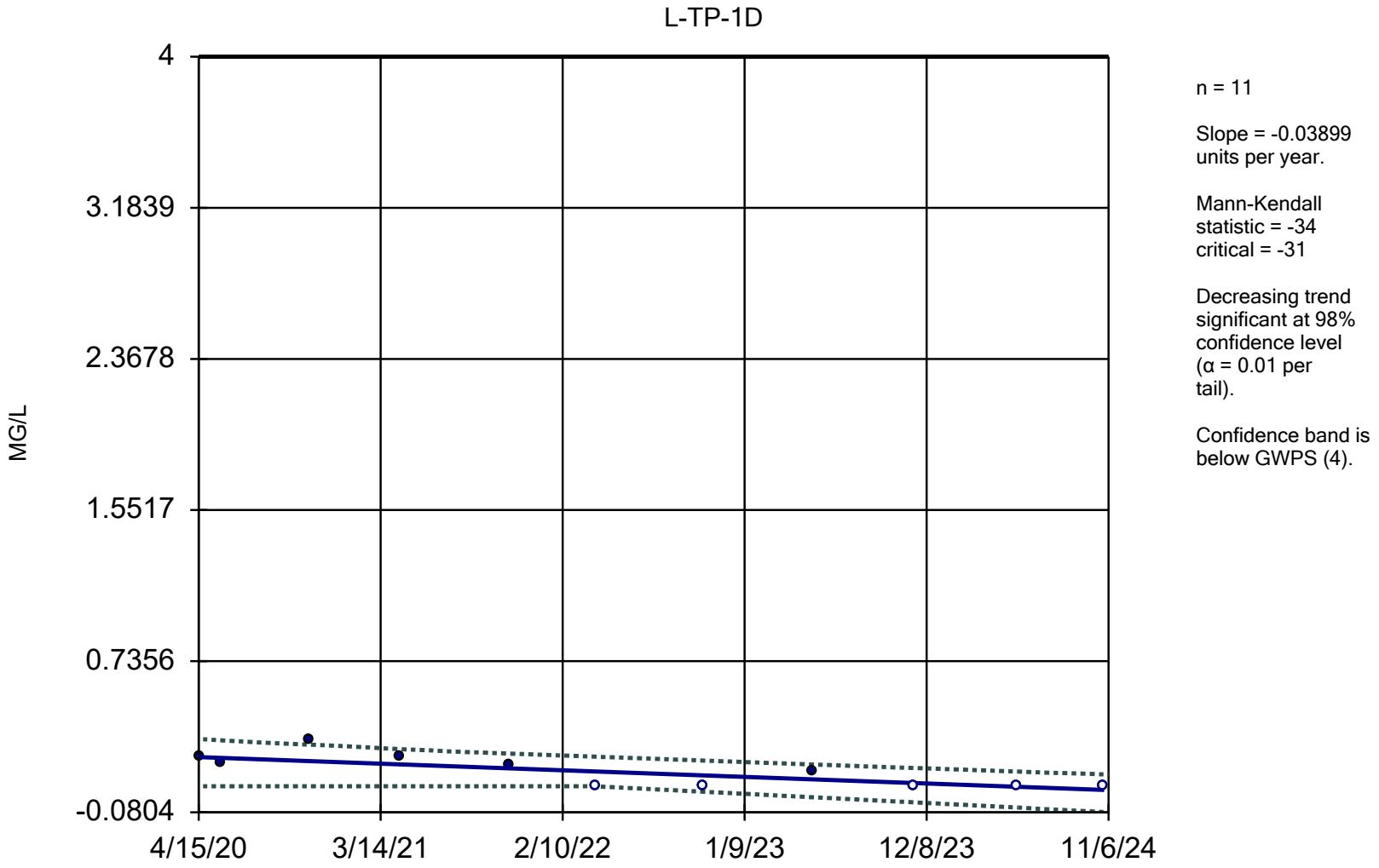


Constituent: FLUORIDE, TOTAL Analysis Run 3/19/2025 5:09 PM View: Corrective Action

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.24 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Sen's Slope and 95% Confidence Band



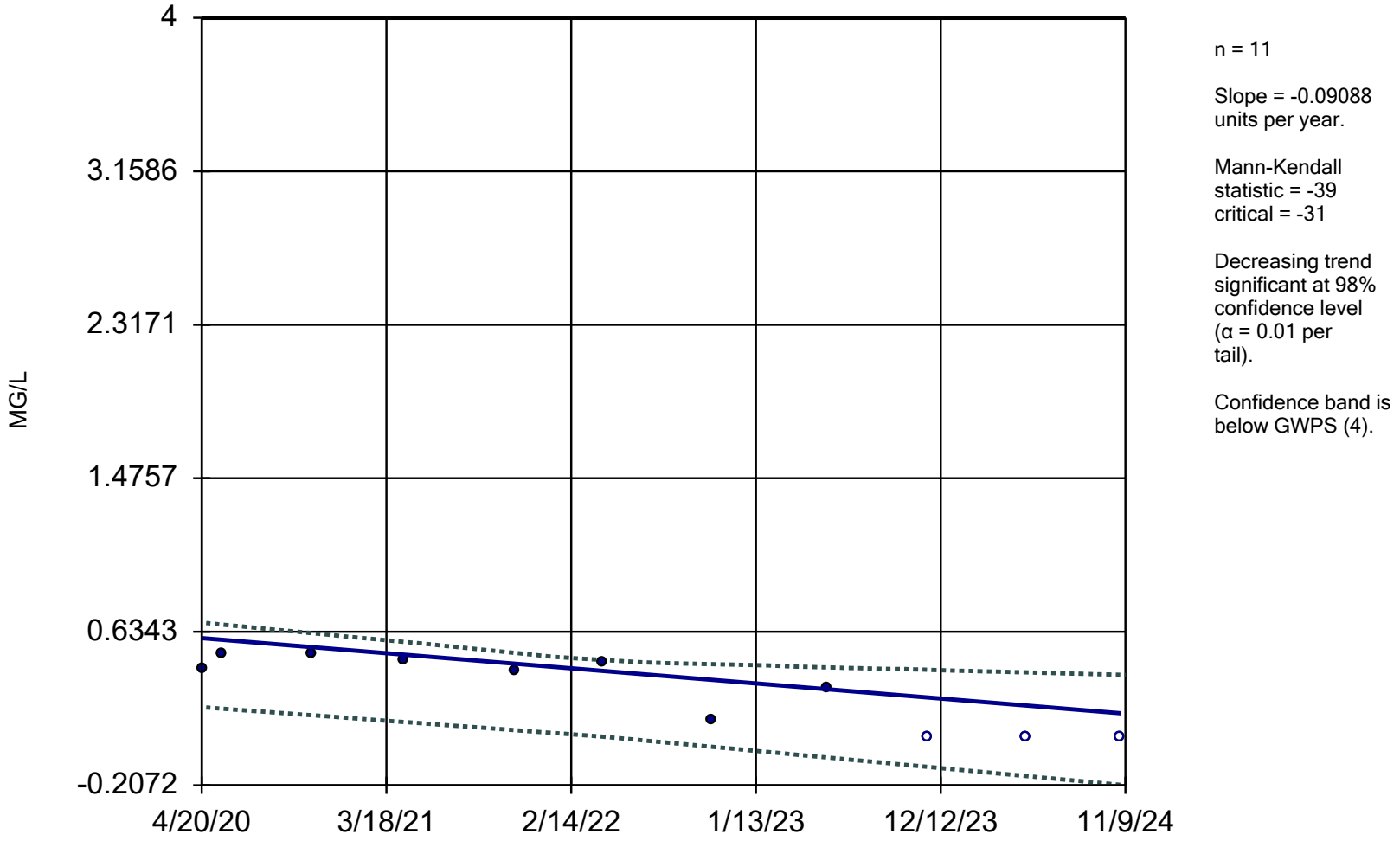
Constituent: FLUORIDE, TOTAL Analysis Run 3/19/2025 5:09 PM View: Corrective Action

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.24 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Sen's Slope and 95% Confidence Band

L-TP-2M



n = 11

Slope = -0.09088 units per year.

Mann-Kendall statistic = -39
critical = -31

Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

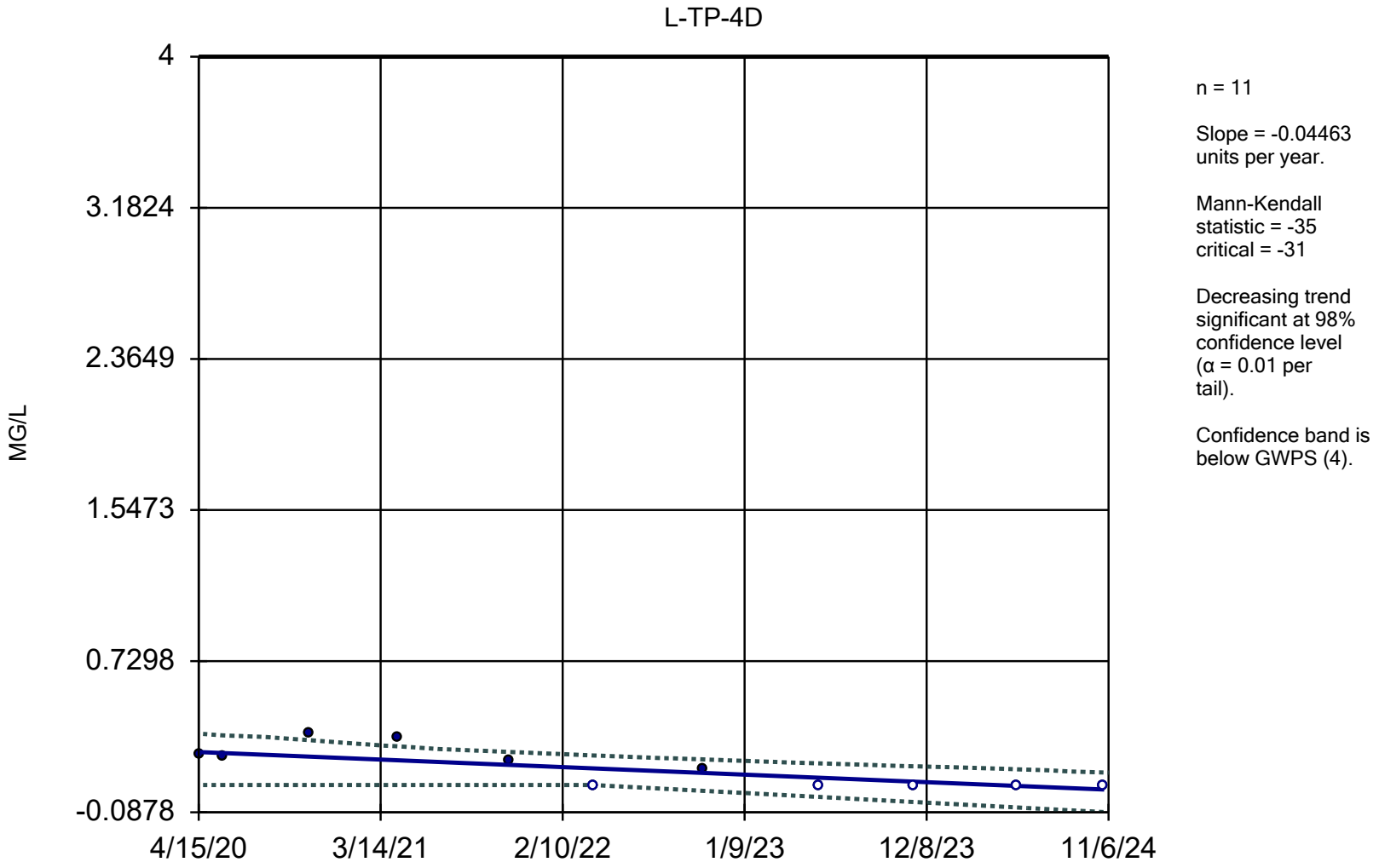
Confidence band is below GWPS (4).

Constituent: FLUORIDE, TOTAL Analysis Run 3/19/2025 5:09 PM View: Corrective Action

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.24 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Sen's Slope and 95% Confidence Band

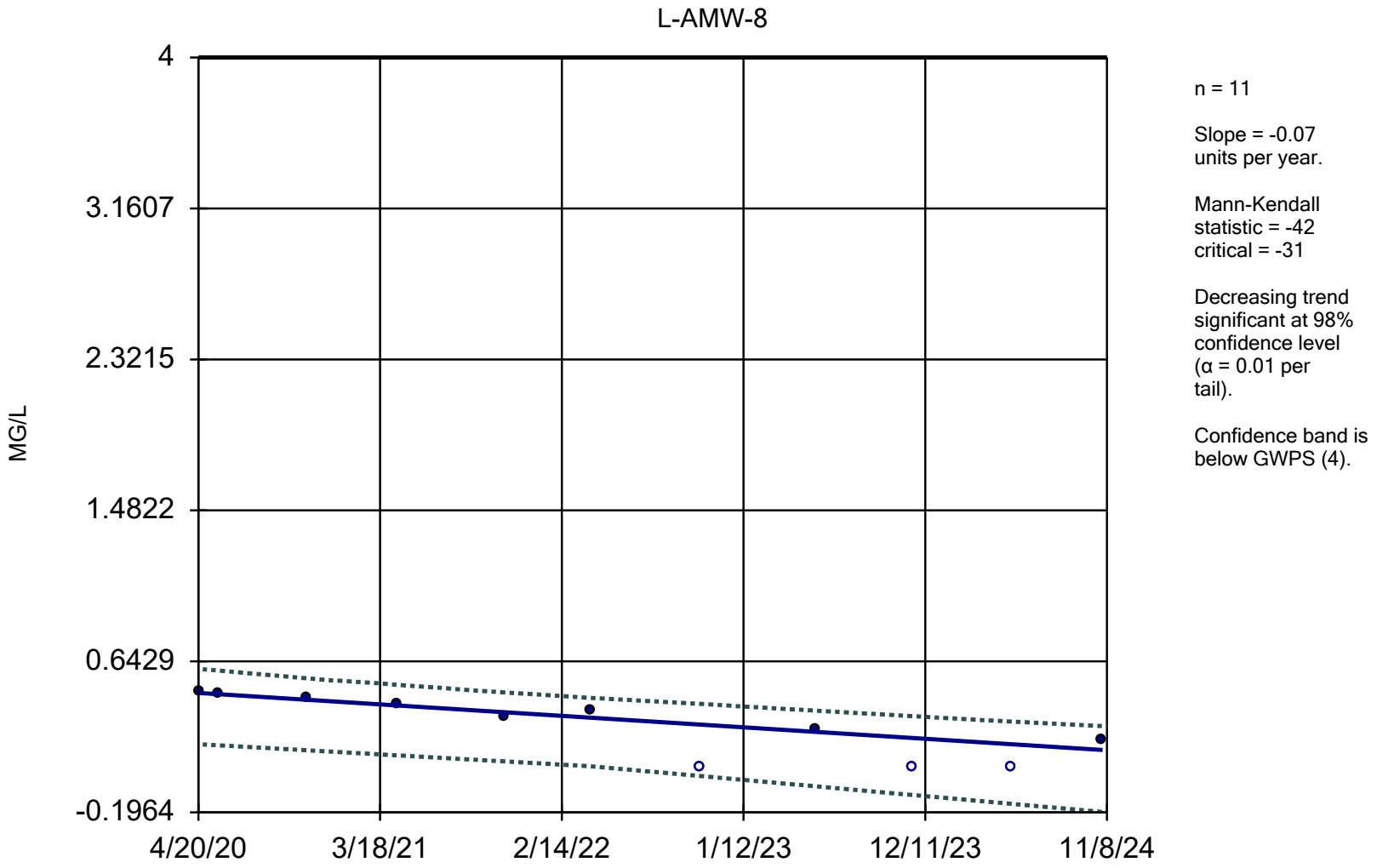


Constituent: FLUORIDE, TOTAL Analysis Run 3/19/2025 5:10 PM View: Corrective Action

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.24 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Sen's Slope and 95% Confidence Band

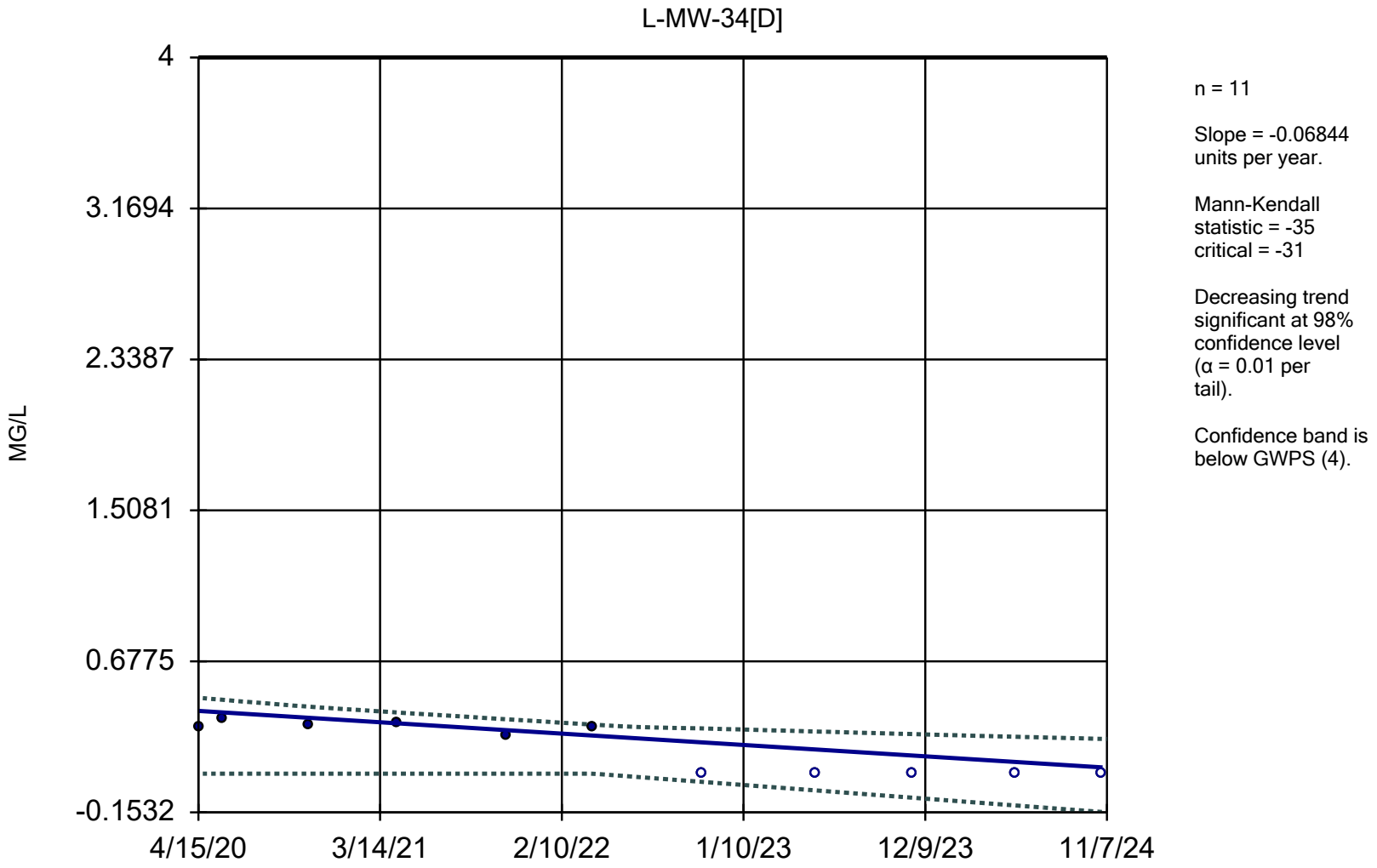


Constituent: FLUORIDE, TOTAL Analysis Run 3/19/2025 5:10 PM View: Corrective Action

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.24 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Sen's Slope and 95% Confidence Band



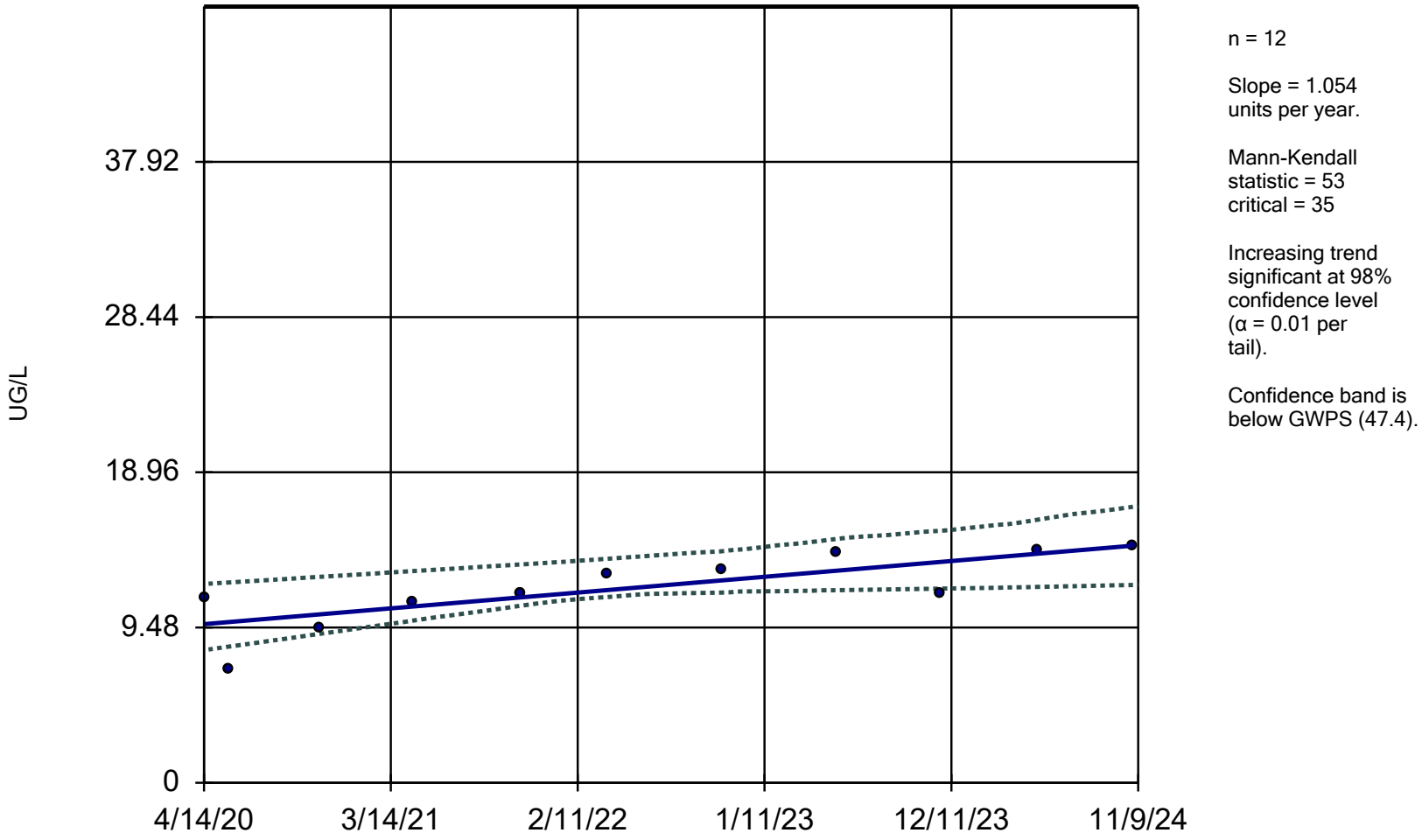
Constituent: FLUORIDE, TOTAL Analysis Run 3/19/2025 5:10 PM View: Corrective Action

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.24 Software licensed to Rocksmith Geoengineering. UG

Sen's Slope and 95% Confidence Band

L-LMW-2S



n = 12

Slope = 1.054 units per year.

Mann-Kendall statistic = 53
critical = 35

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

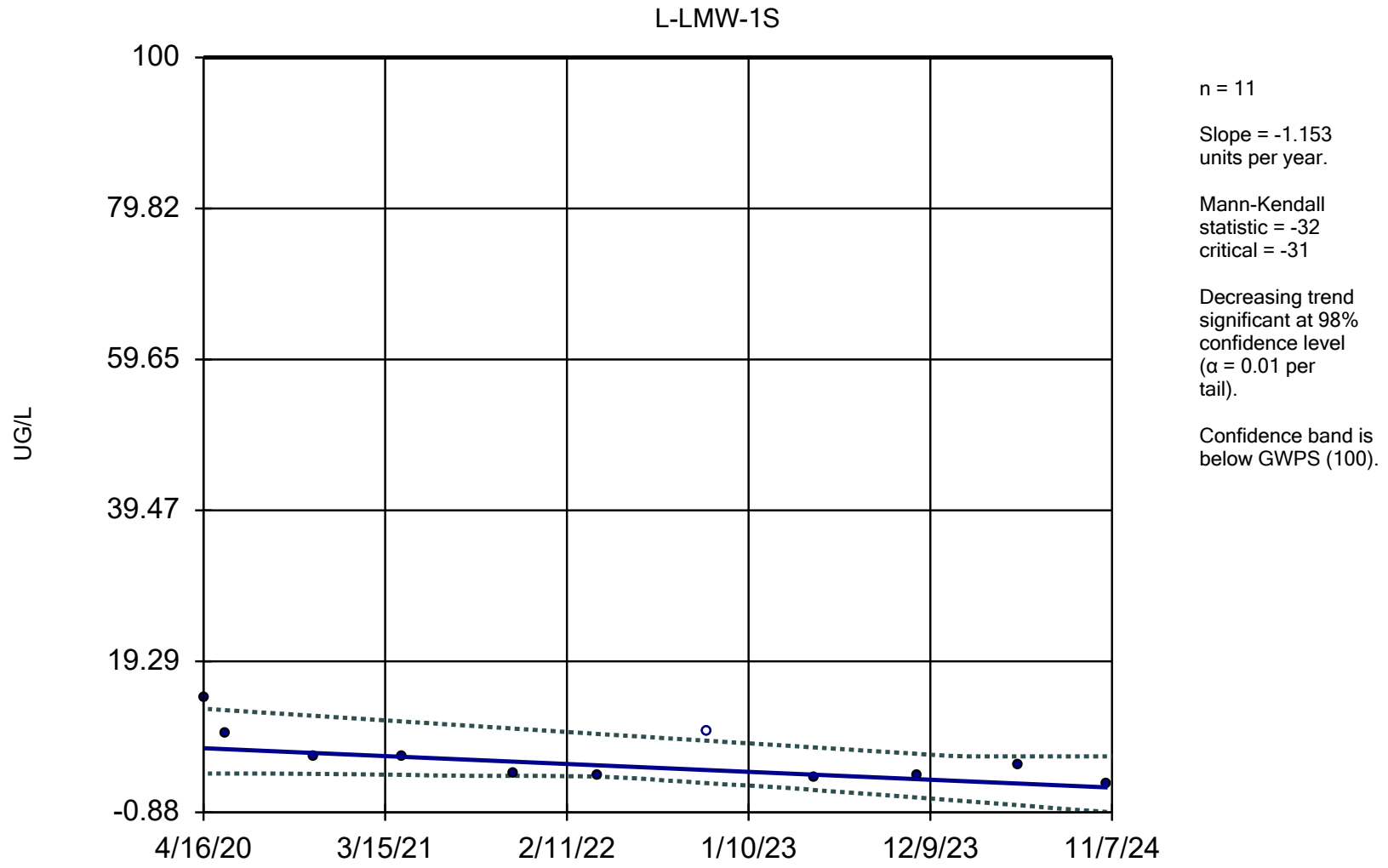
Confidence band is below GWPS (47.4).

Constituent: LITHIUM, TOTAL Analysis Run 3/19/2025 5:10 PM View: Corrective Action

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.24 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Sen's Slope and 95% Confidence Band



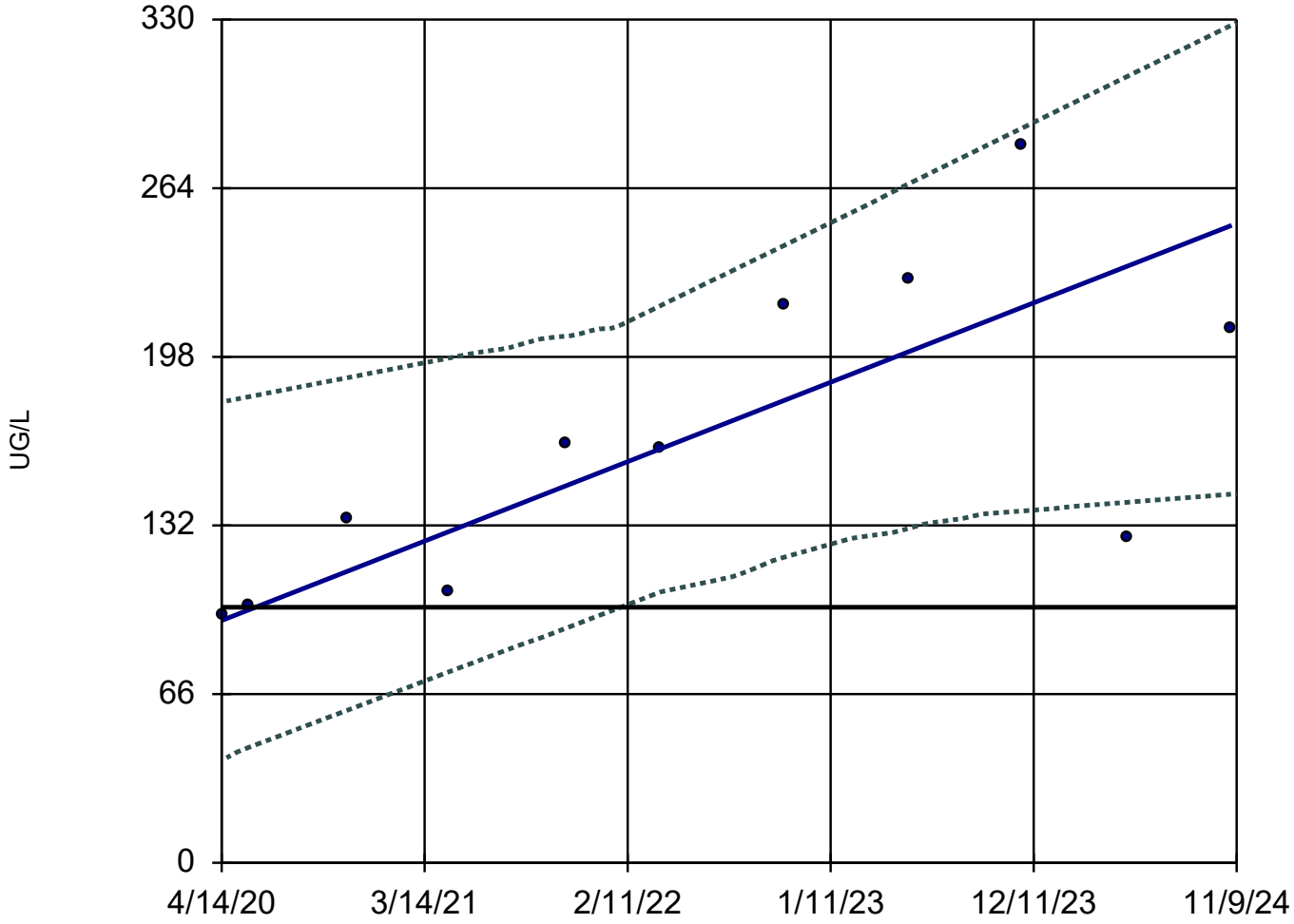
Constituent: MOLYBDENUM, TOTAL Analysis Run 3/19/2025 5:10 PM View: Corrective Action

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.24 Software licensed to Rocksmith Geoengineering. UG

Sen's Slope and 95% Confidence Band

L-LMW-2S



n = 11

Slope = 33.95 units per year.

Mann-Kendall statistic = 33
critical = 31

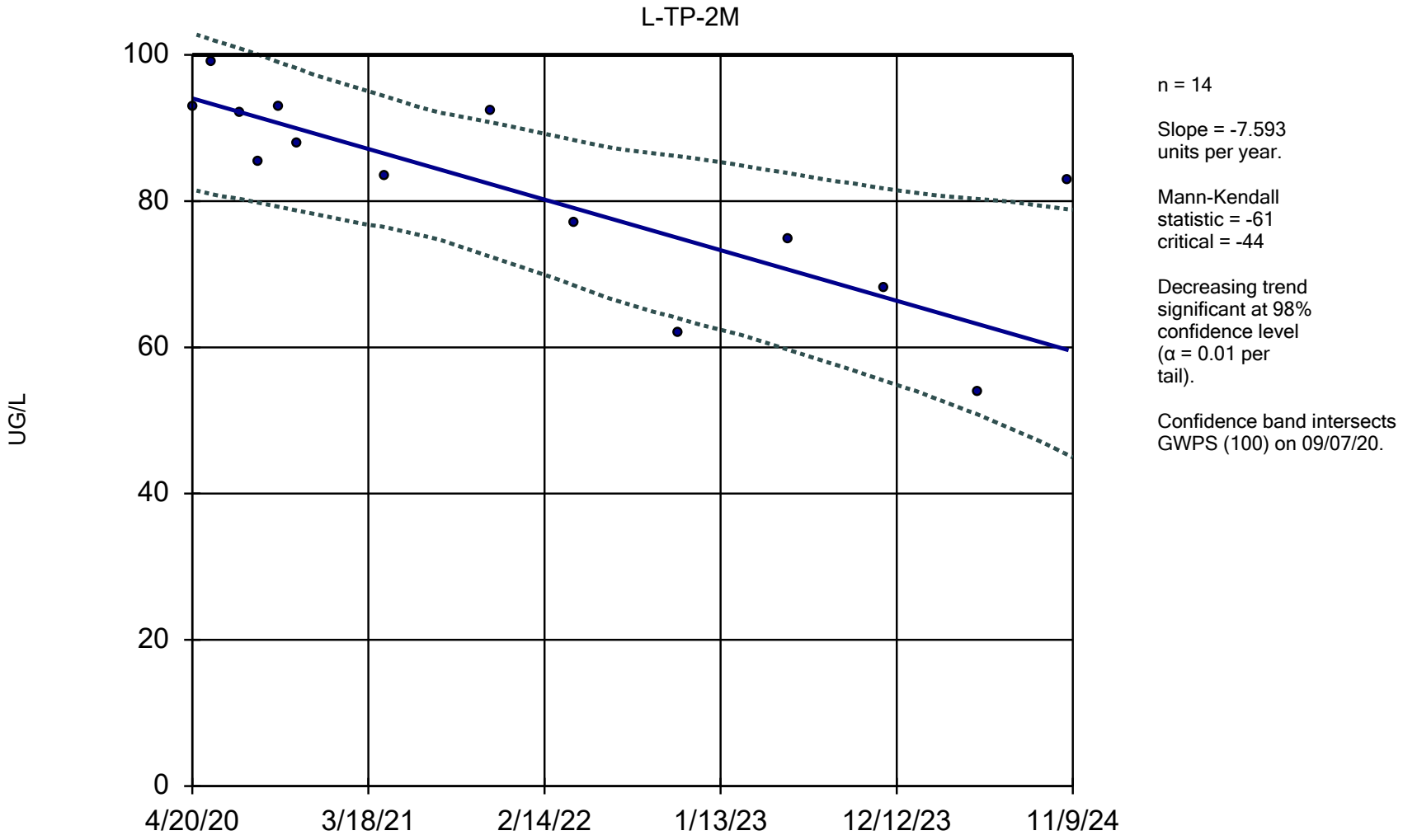
Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Confidence band intersects GWPS (100) on 02/16/22.

Constituent: MOLYBDENUM, TOTAL Analysis Run 3/19/2025 5:10 PM View: Corrective Action

Labadie E.C. Client: Ameren Data: LEC DATA

Sen's Slope and 95% Confidence Band



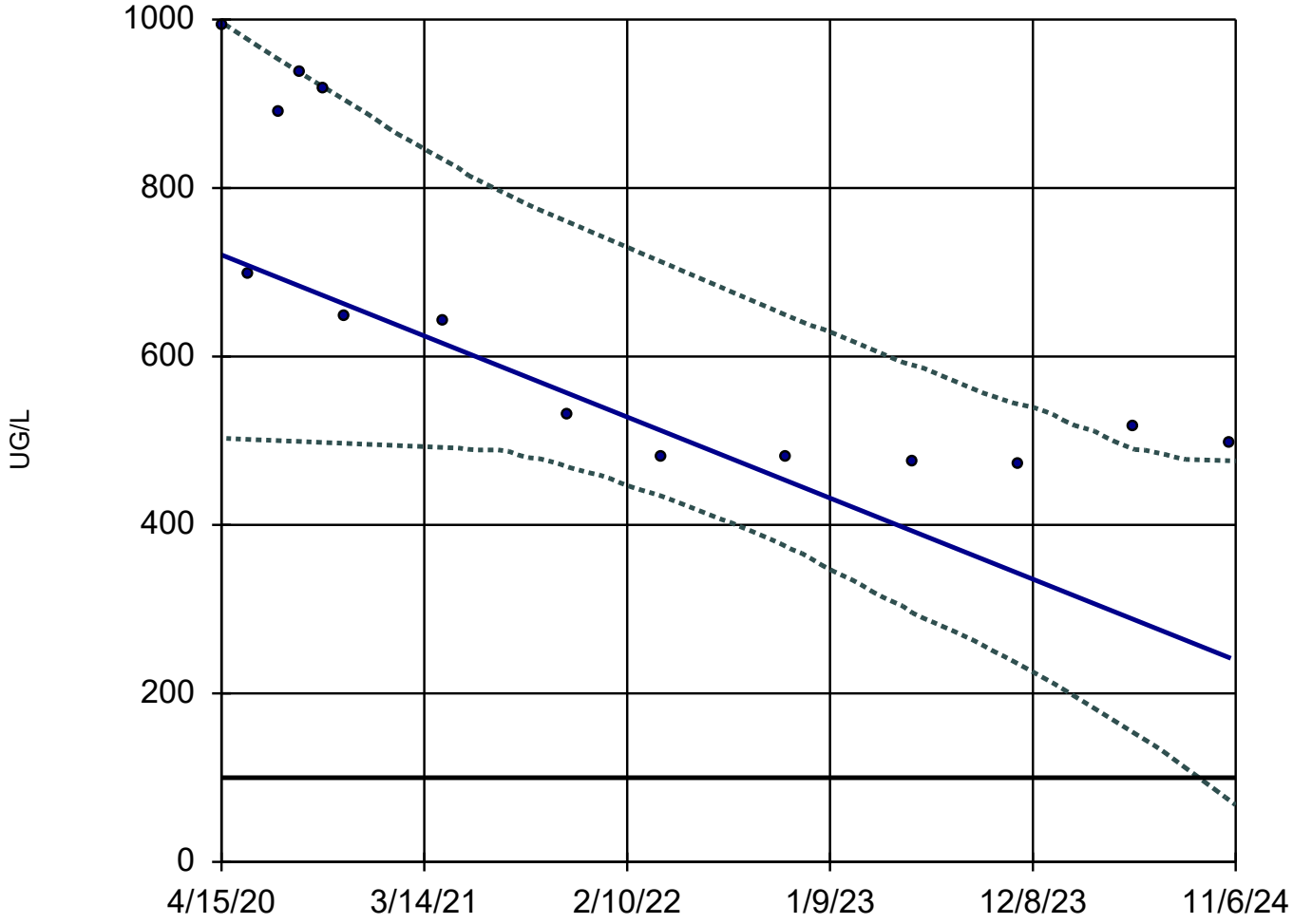
Constituent: MOLYBDENUM, TOTAL Analysis Run 3/19/2025 5:10 PM View: Corrective Action

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.24 Software licensed to Rocksmith Geoengineering. UG

Sen's Slope and 95% Confidence Band

L-TP-3D



n = 14

Slope = -105.4 units per year.

Mann-Kendall statistic = -64
critical = -44

Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

Confidence band intersects GWPS (100) on 09/17/24.

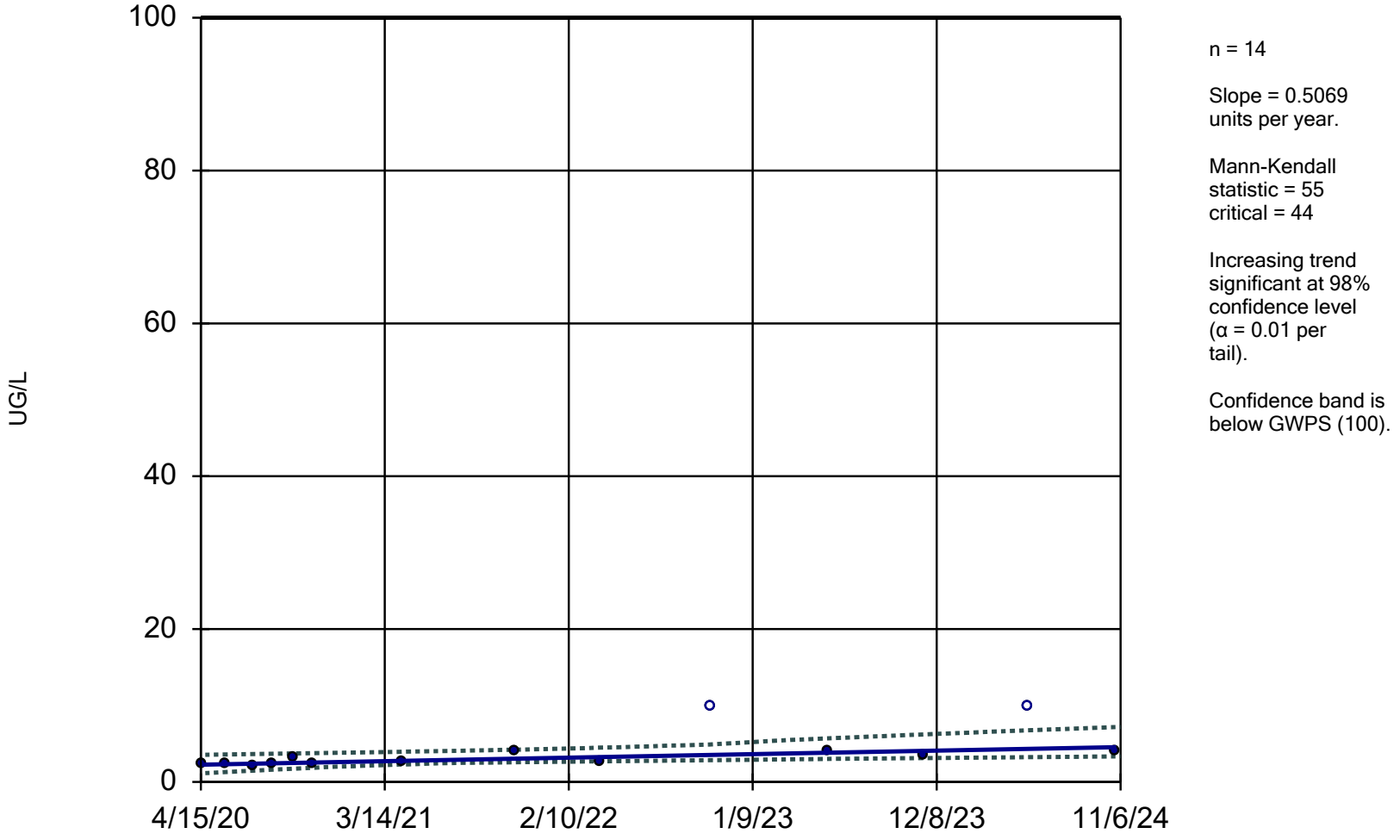
Constituent: MOLYBDENUM, TOTAL Analysis Run 3/19/2025 5:10 PM View: Corrective Action

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.24 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Sen's Slope and 95% Confidence Band

L-TP-4D



n = 14

Slope = 0.5069 units per year.

Mann-Kendall statistic = 55
critical = 44

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

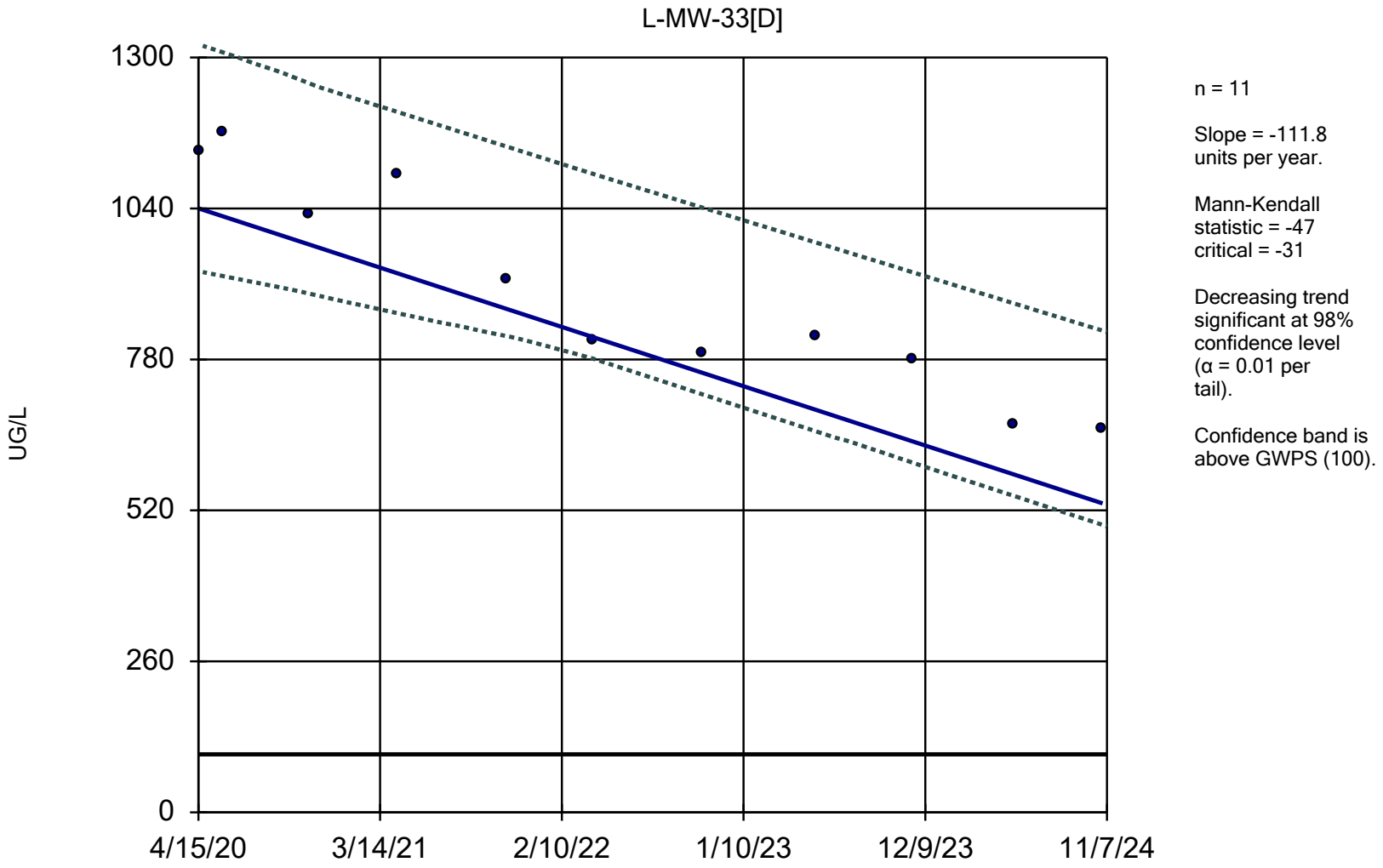
Confidence band is below GWPS (100).

Constituent: MOLYBDENUM, TOTAL Analysis Run 3/19/2025 5:10 PM View: Corrective Action

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.24 Software licensed to Rocksmith Geoengineering. UG

Sen's Slope and 95% Confidence Band

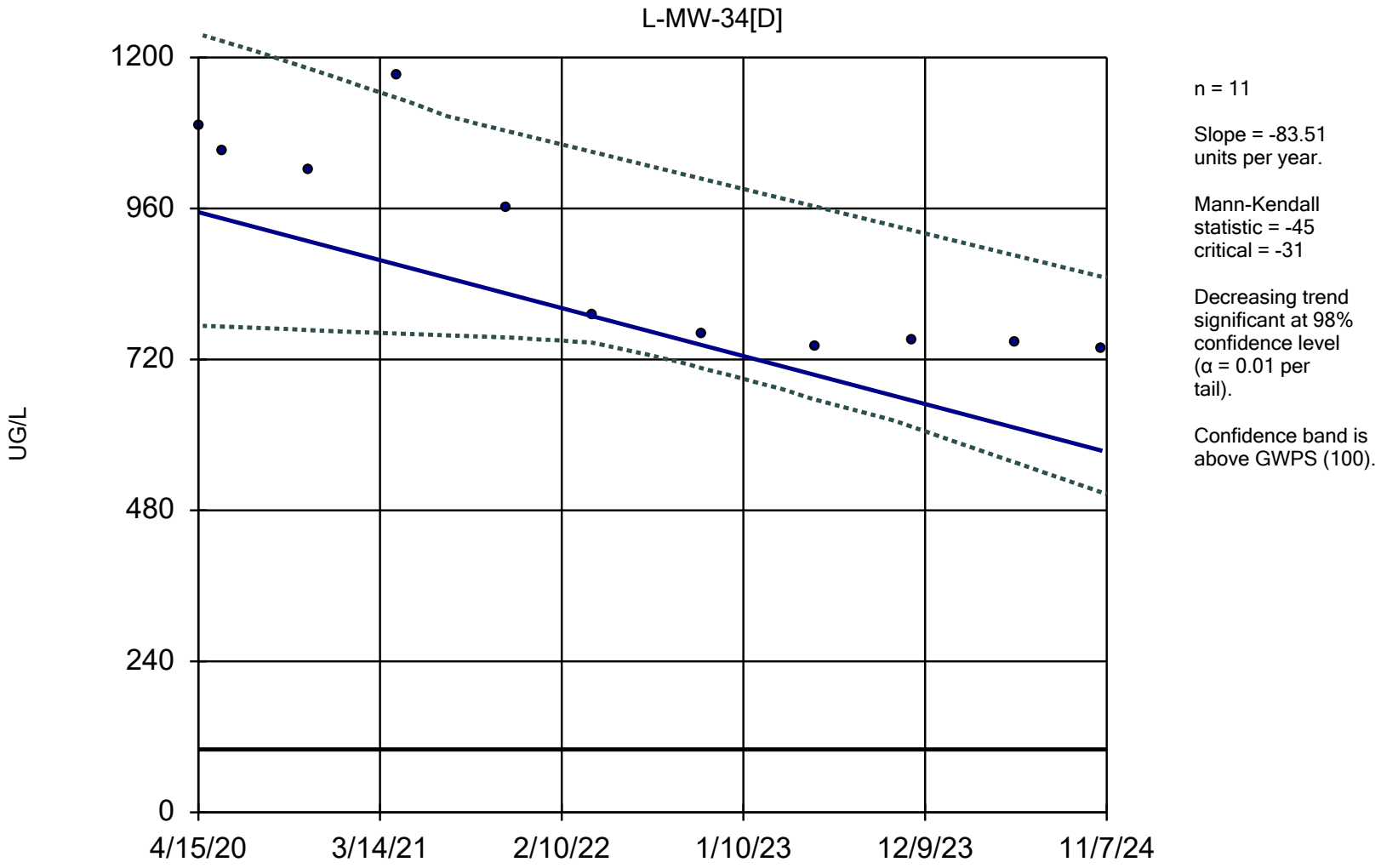


Constituent: MOLYBDENUM, TOTAL Analysis Run 3/19/2025 5:10 PM View: Corrective Action

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.24 Software licensed to Rocksmith Geoengineering. UG

Sen's Slope and 95% Confidence Band

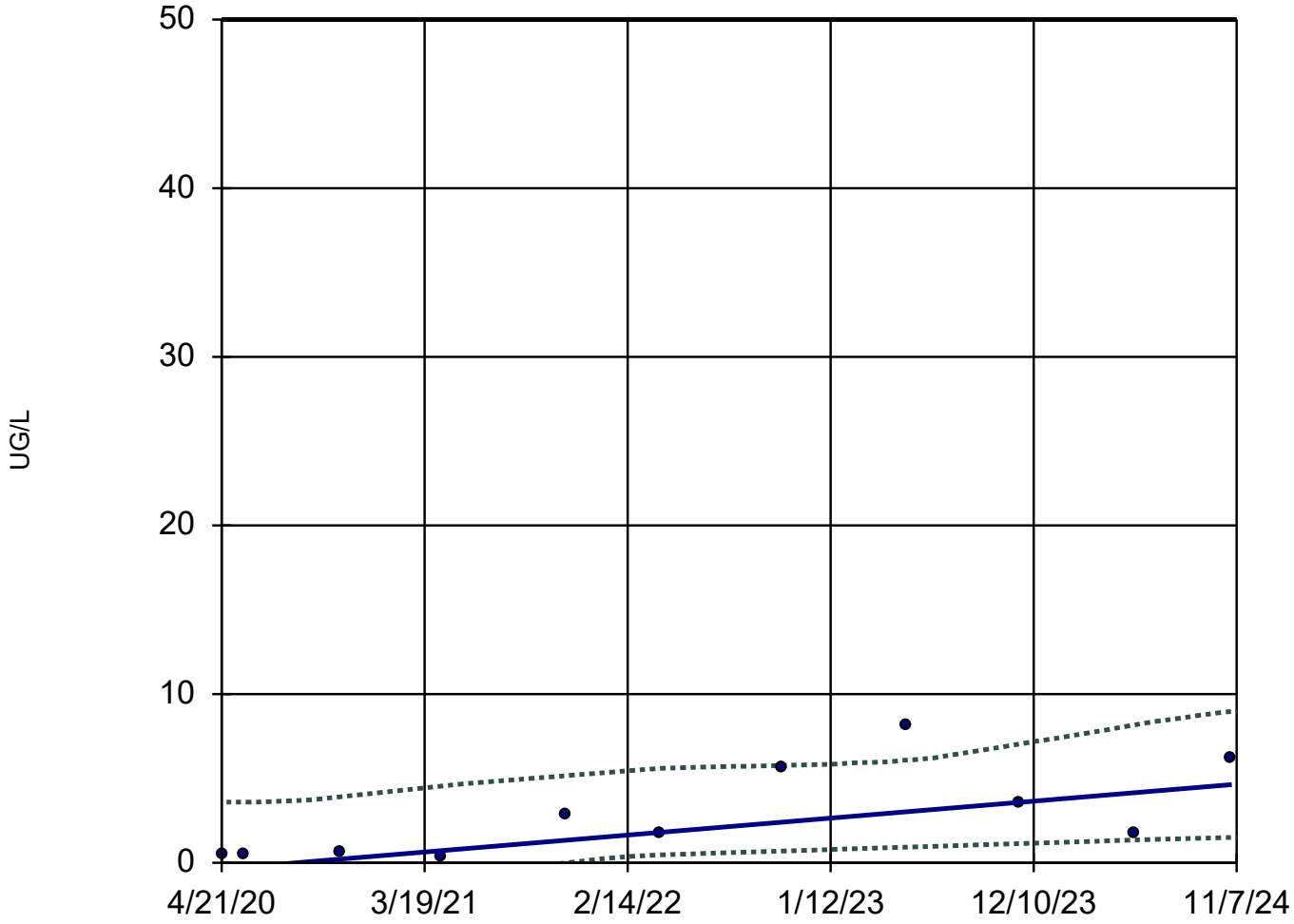


Constituent: MOLYBDENUM, TOTAL Analysis Run 3/19/2025 5:10 PM View: Corrective Action

Labadie E.C. Client: Ameren Data: LEC DATA

Sen's Slope and 95% Confidence Band

L-MW-26



n = 11

Slope = 1.104 units per year.

Mann-Kendall statistic = 32
critical = 31

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Confidence band is below GWPS (50).

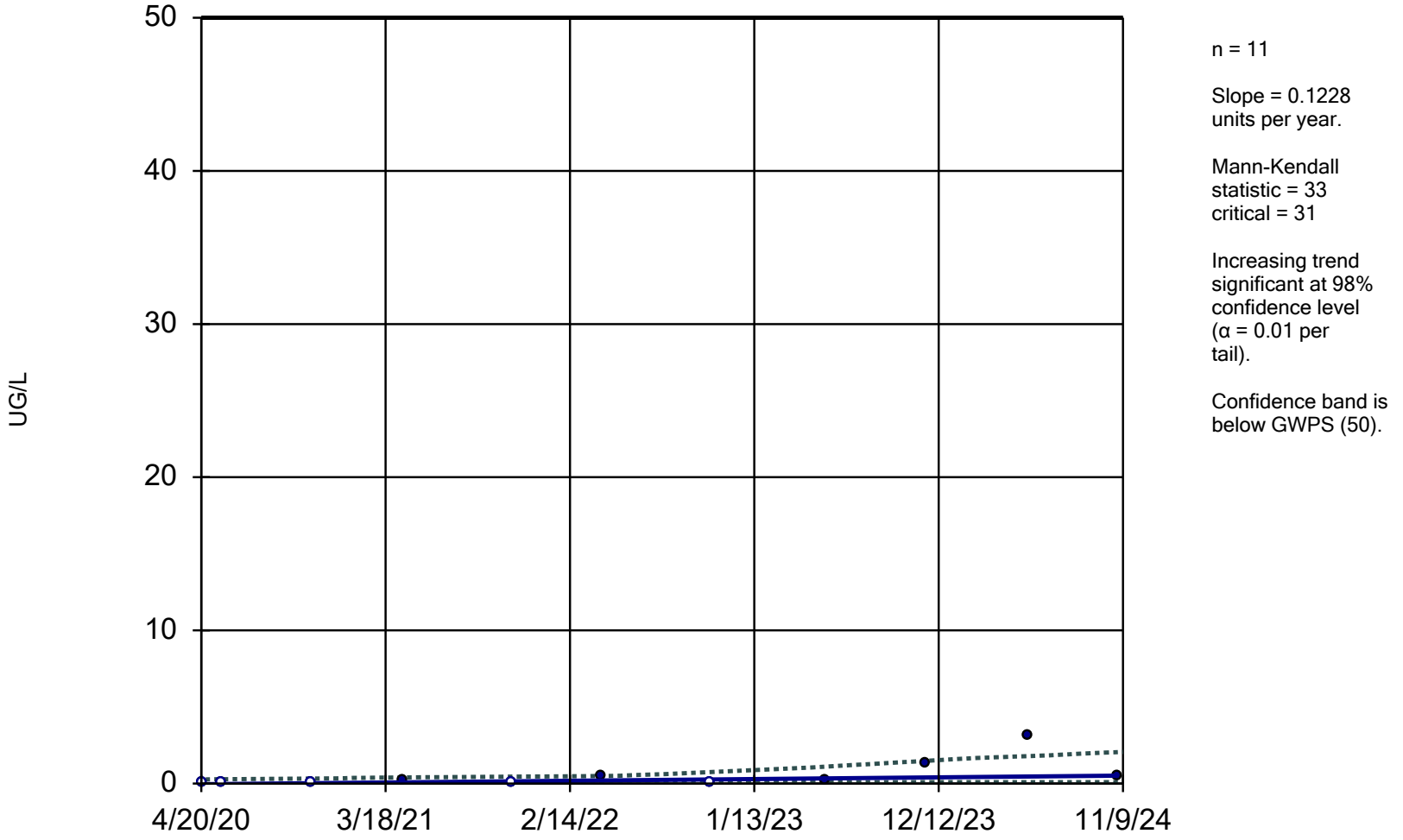
Constituent: SELENIUM, TOTAL Analysis Run 3/19/2025 5:11 PM View: Corrective Action

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.24 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Sen's Slope and 95% Confidence Band

L-AM-1S



n = 11

Slope = 0.1228 units per year.

Mann-Kendall statistic = 33
critical = 31

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

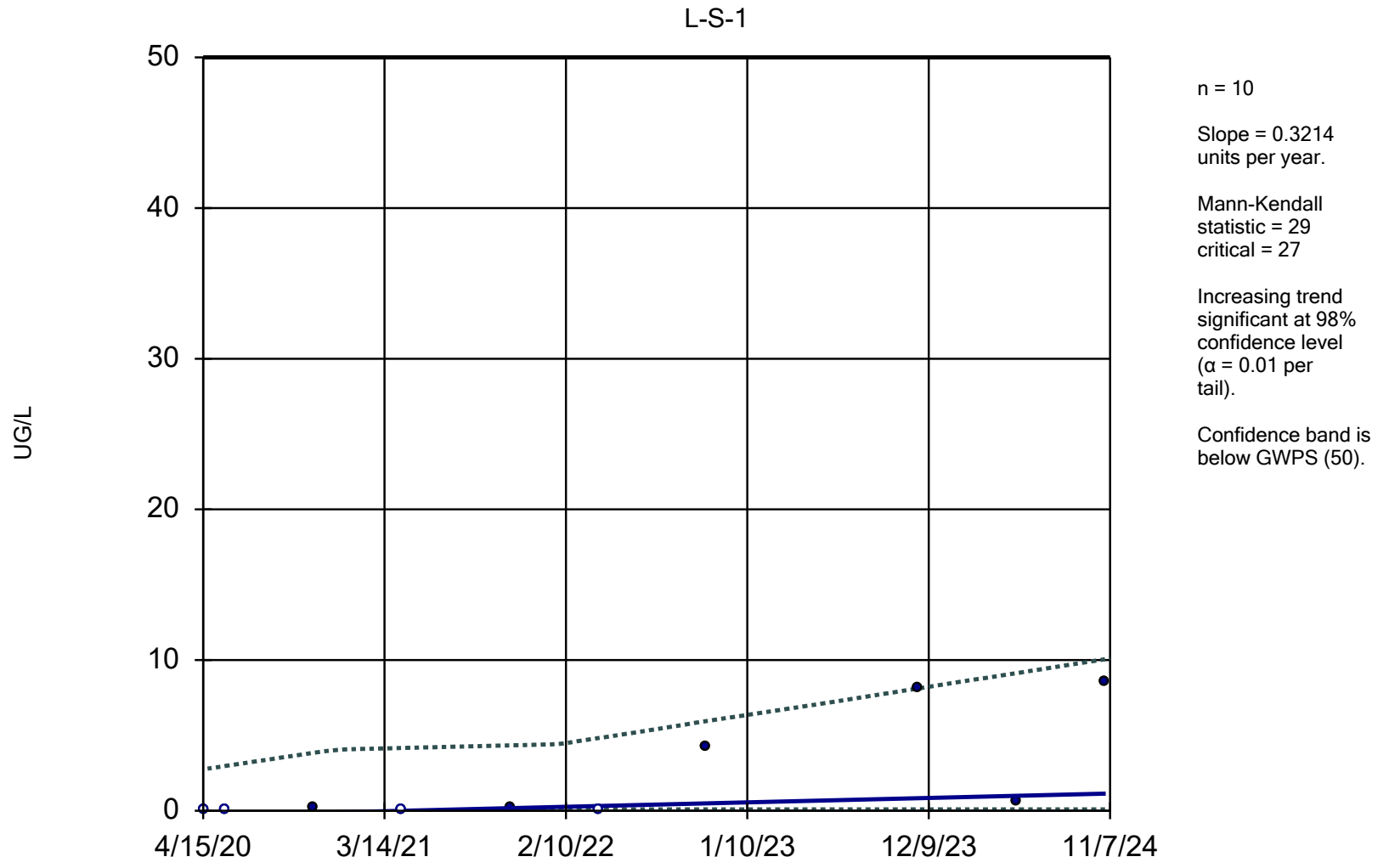
Confidence band is below GWPS (50).

Constituent: SELENIUM, TOTAL Analysis Run 3/19/2025 5:11 PM View: Corrective Action

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.24 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Sen's Slope and 95% Confidence Band



Constituent: SELENIUM, TOTAL Analysis Run 3/19/2025 5:11 PM View: Corrective Action

Labadie E.C. Client: Ameren Data: LEC DATA

Trend Test

Labadie E.C. Client: Ameren Data: LEC DATA Printed 3/19/2025, 5:12 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
ANTIMONY, TOTAL (UG/L)	L-LMW-1S	0.002813	23	23	No	9	100	n/a	n/a	0.02	NP
ANTIMONY, TOTAL (UG/L)	L-LMW-2S	0	0	23	No	9	66.67	n/a	n/a	0.02	NP
ANTIMONY, TOTAL (UG/L)	L-LMW-4S	0.002826	23	23	No	9	100	n/a	n/a	0.02	NP
ANTIMONY, TOTAL (UG/L)	L-LMW-7S	0.002815	23	23	No	9	100	n/a	n/a	0.02	NP
ANTIMONY, TOTAL (UG/L)	L-LMW-8S	0.002815	23	23	No	9	100	n/a	n/a	0.02	NP
ANTIMONY, TOTAL (UG/L)	L-MW-26	0	-1	-23	No	9	33.33	n/a	n/a	0.02	NP
ANTIMONY, TOTAL (UG/L)	L-AM-1D	0.002819	23	23	No	9	100	n/a	n/a	0.02	NP
ANTIMONY, TOTAL (UG/L)	L-AM-1S	0.002819	23	23	No	9	100	n/a	n/a	0.02	NP
ANTIMONY, TOTAL (UG/L)	L-TP-1D	0	-2	-23	No	9	77.78	n/a	n/a	0.02	NP
ANTIMONY, TOTAL (UG/L)	L-TP-2D	0.003258	17	23	No	9	77.78	n/a	n/a	0.02	NP
ANTIMONY, TOTAL (UG/L)	L-TP-2M	0.002826	23	23	No	9	100	n/a	n/a	0.02	NP
ANTIMONY, TOTAL (UG/L)	L-TP-3D	0.002815	23	23	No	9	100	n/a	n/a	0.02	NP
ANTIMONY, TOTAL (UG/L)	L-TP-3M	0.002815	23	23	No	9	100	n/a	n/a	0.02	NP
ANTIMONY, TOTAL (UG/L)	L-TP-4D	0.002855	17	20	No	8	100	n/a	n/a	0.02	NP
ANTIMONY, TOTAL (UG/L)	L-AMW-8	0.002825	17	20	No	8	100	n/a	n/a	0.02	NP
ANTIMONY, TOTAL (UG/L)	L-MW-24	0.01656	23	23	No	9	0	n/a	n/a	0.02	NP
ANTIMONY, TOTAL (UG/L)	L-MW-33[D]	0.002813	23	23	No	9	100	n/a	n/a	0.02	NP
ANTIMONY, TOTAL (UG/L)	L-MW-34[D]	0.002812	23	23	No	9	100	n/a	n/a	0.02	NP
ANTIMONY, TOTAL (UG/L)	L-MW-35[D]	0.002812	23	23	No	9	100	n/a	n/a	0.02	NP
ANTIMONY, TOTAL (UG/L)	L-S-1	0.006753	14	23	No	9	44.44	n/a	n/a	0.02	NP
ARSENIC, TOTAL (UG/L)	L-LMW-1S	-2.223	-31	-31	No	11	0	n/a	n/a	0.02	NP
ARSENIC, TOTAL (UG/L)	L-LMW-2S	-0.9884	-22	-31	No	11	0	n/a	n/a	0.02	NP
ARSENIC, TOTAL (UG/L)	L-LMW-4S	0.9101	16	31	No	11	0	n/a	n/a	0.02	NP
ARSENIC, TOTAL (UG/L)	L-LMW-7S	-0.144	-3	-31	No	11	0	n/a	n/a	0.02	NP
ARSENIC, TOTAL (UG/L)	L-LMW-8S	-3.209	-30	-31	No	11	0	n/a	n/a	0.02	NP
ARSENIC, TOTAL (UG/L)	L-MW-26	-0.00...	-10	-31	No	11	9.091	n/a	n/a	0.02	NP
ARSENIC, TOTAL (UG/L)	L-AM-1D	0.1052	7	31	No	11	0	n/a	n/a	0.02	NP
ARSENIC, TOTAL (UG/L)	L-AM-1S	-0.5372	-13	-31	No	11	0	n/a	n/a	0.02	NP
ARSENIC, TOTAL (UG/L)	L-TP-1D	0.06952	24	31	No	11	0	n/a	n/a	0.02	NP
ARSENIC, TOTAL (UG/L)	L-TP-2D	-0.1069	-12	-27	No	10	0	n/a	n/a	0.02	NP
ARSENIC, TOTAL (UG/L)	L-TP-2M	-0.03559	-19	-31	No	11	0	n/a	n/a	0.02	NP
ARSENIC, TOTAL (UG/L)	L-TP-3D	0.3082	11	31	No	11	0	n/a	n/a	0.02	NP
ARSENIC, TOTAL (UG/L)	L-TP-3M	-0.00...	-5	-31	No	11	0	n/a	n/a	0.02	NP
ARSENIC, TOTAL (UG/L)	L-TP-4D	-0.1321	-24	-31	No	11	0	n/a	n/a	0.02	NP
ARSENIC, TOTAL (UG/L)	L-AMW-8	0.005757	6	31	No	11	0	n/a	n/a	0.02	NP
ARSENIC, TOTAL (UG/L)	L-MW-24	0.05495	23	31	No	11	9.091	n/a	n/a	0.02	NP
ARSENIC, TOTAL (UG/L)	L-MW-33[D]	0.101	7	31	No	11	0	n/a	n/a	0.02	NP
ARSENIC, TOTAL (UG/L)	L-MW-34[D]	-0.07883	-28	-31	No	11	0	n/a	n/a	0.02	NP
ARSENIC, TOTAL (UG/L)	L-MW-35[D]	-0.00...	-11	-27	No	10	0	n/a	n/a	0.02	NP
ARSENIC, TOTAL (UG/L)	L-S-1	0.0088	5	31	No	11	0	n/a	n/a	0.02	NP
BARIUM, TOTAL (UG/L)	L-LMW-1S	11.49	23	27	No	10	0	n/a	n/a	0.02	NP
BARIUM, TOTAL (UG/L)	L-LMW-2S	3.96	29	31	No	11	0	n/a	n/a	0.02	NP
BARIUM, TOTAL (UG/L)	L-LMW-4S	3.342	11	31	No	11	0	n/a	n/a	0.02	NP
BARIUM, TOTAL (UG/L)	**L-LMW-7S**	**-22.91**	**-33**	**-31**	**Yes**	**11**	**0**	**n/a**	**n/a**	**0.02**	**NP**
BARIUM, TOTAL (UG/L)	L-LMW-8S	4.817	5	31	No	11	0	n/a	n/a	0.02	NP
BARIUM, TOTAL (UG/L)	L-MW-26	-2.051	-10	-31	No	11	0	n/a	n/a	0.02	NP
BARIUM, TOTAL (UG/L)	L-AM-1D	0.2585	3	31	No	11	0	n/a	n/a	0.02	NP
BARIUM, TOTAL (UG/L)	L-AM-1S	-3.123	-3	-31	No	11	0	n/a	n/a	0.02	NP
BARIUM, TOTAL (UG/L)	L-TP-1D	16.47	20	31	No	11	0	n/a	n/a	0.02	NP
BARIUM, TOTAL (UG/L)	L-TP-2D	0.9874	5	27	No	10	0	n/a	n/a	0.02	NP

Trend Test

Labadie E.C. Client: Ameren Data: LEC DATA Printed 3/19/2025, 5:12 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
BARIUM, TOTAL (UG/L)	L-TP-2M	3.897	22	23	No	9	0	n/a	n/a	0.02	NP
BARIUM, TOTAL (UG/L)	L-TP-3D	-0.02261	-1	-31	No	11	0	n/a	n/a	0.02	NP
BARIUM, TOTAL (UG/L)	L-TP-3M	-9.518	-19	-31	No	11	0	n/a	n/a	0.02	NP
BARIUM, TOTAL (UG/L)	L-TP-4D	-12.92	-30	-31	No	11	0	n/a	n/a	0.02	NP
BARIUM, TOTAL (UG/L)	L-AMW-8	2.264	18	27	No	10	0	n/a	n/a	0.02	NP
BARIUM, TOTAL (UG/L)	L-MW-24	-16.41	-30	-31	No	11	0	n/a	n/a	0.02	NP
BARIUM, TOTAL (UG/L)	**L-MW-33[D]**	**12.11**	**40**	**31**	**Yes**	**11**	**0**	**n/a**	**n/a**	**0.02**	**NP**
BARIUM, TOTAL (UG/L)	**L-MW-34[D]**	**5.8**	**39**	**31**	**Yes**	**11**	**0**	**n/a**	**n/a**	**0.02**	**NP**
BARIUM, TOTAL (UG/L)	L-MW-35[D]	0.0899	1	31	No	11	0	n/a	n/a	0.02	NP
BARIUM, TOTAL (UG/L)	L-S-1	1.409	5	31	No	11	0	n/a	n/a	0.02	NP
CHROMIUM, TOTAL (UG/L)	L-LMW-1S	0.01003	5	27	No	10	50	n/a	n/a	0.02	NP
CHROMIUM, TOTAL (UG/L)	L-LMW-2S	0.02543	12	23	No	9	66.67	n/a	n/a	0.02	NP
CHROMIUM, TOTAL (UG/L)	L-LMW-4S	0.05958	21	27	No	10	40	n/a	n/a	0.02	NP
CHROMIUM, TOTAL (UG/L)	L-LMW-7S	0.01004	9	27	No	10	60	n/a	n/a	0.02	NP
CHROMIUM, TOTAL (UG/L)	L-LMW-8S	0.01115	12	27	No	10	80	n/a	n/a	0.02	NP
CHROMIUM, TOTAL (UG/L)	**L-MW-26**	**0.1269**	**29**	**27**	**Yes**	**10**	**70**	**n/a**	**n/a**	**0.02**	**NP**
CHROMIUM, TOTAL (UG/L)	L-AM-1D	0.07019	24	27	No	10	10	n/a	n/a	0.02	NP
CHROMIUM, TOTAL (UG/L)	L-AM-1S	0.0453	18	27	No	10	30	n/a	n/a	0.02	NP
CHROMIUM, TOTAL (UG/L)	L-TP-1D	0.06822	19	27	No	10	40	n/a	n/a	0.02	NP
CHROMIUM, TOTAL (UG/L)	L-TP-2D	0.0157	17	27	No	10	50	n/a	n/a	0.02	NP
CHROMIUM, TOTAL (UG/L)	**L-TP-2M**	**0.07005**	**32**	**27**	**Yes**	**10**	**40**	**n/a**	**n/a**	**0.02**	**NP**
CHROMIUM, TOTAL (UG/L)	L-TP-3D	0.01003	7	27	No	10	50	n/a	n/a	0.02	NP
CHROMIUM, TOTAL (UG/L)	L-TP-3M	0.03935	17	27	No	10	50	n/a	n/a	0.02	NP
CHROMIUM, TOTAL (UG/L)	L-TP-4D	0.009046	8	27	No	10	60	n/a	n/a	0.02	NP
CHROMIUM, TOTAL (UG/L)	L-AMW-8	0.01318	4	27	No	10	40	n/a	n/a	0.02	NP
CHROMIUM, TOTAL (UG/L)	L-MW-24	0.08636	23	27	No	10	50	n/a	n/a	0.02	NP
CHROMIUM, TOTAL (UG/L)	L-MW-33[D]	0.2614	19	23	No	9	77.78	n/a	n/a	0.02	NP
CHROMIUM, TOTAL (UG/L)	L-MW-34[D]	0.09334	11	27	No	10	50	n/a	n/a	0.02	NP
CHROMIUM, TOTAL (UG/L)	L-MW-35[D]	0.125	23	27	No	10	60	n/a	n/a	0.02	NP
CHROMIUM, TOTAL (UG/L)	L-S-1	0.07039	20	27	No	10	30	n/a	n/a	0.02	NP
COBALT, TOTAL (UG/L)	L-LMW-1S	-0.01243	-3	-20	No	8	75	n/a	n/a	0.02	NP
COBALT, TOTAL (UG/L)	L-LMW-2S	0	-2	-20	No	8	100	n/a	n/a	0.02	NP
COBALT, TOTAL (UG/L)	L-LMW-4S	0.05517	1	20	No	8	25	n/a	n/a	0.02	NP
COBALT, TOTAL (UG/L)	L-LMW-7S	-0.3675	-13	-20	No	8	0	n/a	n/a	0.02	NP
COBALT, TOTAL (UG/L)	L-LMW-8S	-0.04066	-16	-20	No	8	75	n/a	n/a	0.02	NP
COBALT, TOTAL (UG/L)	L-MW-26	0	-2	-20	No	8	100	n/a	n/a	0.02	NP
COBALT, TOTAL (UG/L)	L-AM-1D	-0.02855	-10	-20	No	8	100	n/a	n/a	0.02	NP
COBALT, TOTAL (UG/L)	L-AM-1S	-0.541	-10	-20	No	8	12.5	n/a	n/a	0.02	NP
COBALT, TOTAL (UG/L)	L-TP-1D	-0.02486	-4	-13	No	6	100	n/a	n/a	0.02	NP
COBALT, TOTAL (UG/L)	L-TP-2D	-0.02875	-10	-20	No	8	100	n/a	n/a	0.02	NP
COBALT, TOTAL (UG/L)	L-TP-2M	-0.02875	-10	-20	No	8	100	n/a	n/a	0.02	NP
COBALT, TOTAL (UG/L)	L-TP-3D	0	-2	-20	No	8	100	n/a	n/a	0.02	NP
COBALT, TOTAL (UG/L)	L-TP-3M	0	-2	-20	No	8	100	n/a	n/a	0.02	NP
COBALT, TOTAL (UG/L)	L-TP-4D	0	-2	-20	No	8	100	n/a	n/a	0.02	NP
COBALT, TOTAL (UG/L)	L-AMW-8	-0.02875	-10	-20	No	8	100	n/a	n/a	0.02	NP
COBALT, TOTAL (UG/L)	L-MW-24	0	-2	-20	No	8	100	n/a	n/a	0.02	NP
COBALT, TOTAL (UG/L)	L-MW-33[D]	0	-2	-20	No	8	100	n/a	n/a	0.02	NP
COBALT, TOTAL (UG/L)	L-MW-34[D]	0	-2	-17	No	7	100	n/a	n/a	0.02	NP
COBALT, TOTAL (UG/L)	L-MW-35[D]	0	-2	-17	No	7	100	n/a	n/a	0.02	NP
COBALT, TOTAL (UG/L)	L-S-1	-0.04081	-3	-20	No	8	37.5	n/a	n/a	0.02	NP

Trend Test

Labadie E.C. Client: Ameren Data: LEC DATA Printed 3/19/2025, 5:12 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
FLUORIDE, TOTAL (MG/L)	**L-LMW-1S**	**-0.04014**	**-50**	**-44**	**Yes**	**14**	**35.71**	**n/a**	**n/a**	**0.02**	**NP**
FLUORIDE, TOTAL (MG/L)	**L-LMW-2S**	**-0.04244**	**-36**	**-31**	**Yes**	**11**	**45.45**	**n/a**	**n/a**	**0.02**	**NP**
FLUORIDE, TOTAL (MG/L)	L-LMW-4S	-0.0518	-35	-35	No	12	41.67	n/a	n/a	0.02	NP
FLUORIDE, TOTAL (MG/L)	L-LMW-7S	-0.04644	-29	-35	No	12	50	n/a	n/a	0.02	NP
FLUORIDE, TOTAL (MG/L)	L-LMW-8S	-0.04084	-13	-39	No	13	30.77	n/a	n/a	0.02	NP
FLUORIDE, TOTAL (MG/L)	L-MW-26	-0.02625	-30	-35	No	12	58.33	n/a	n/a	0.02	NP
FLUORIDE, TOTAL (MG/L)	L-AM-1D	-0.06845	-28	-31	No	11	36.36	n/a	n/a	0.02	NP
FLUORIDE, TOTAL (MG/L)	L-AM-1S	-0.0474	-25	-31	No	11	54.55	n/a	n/a	0.02	NP
FLUORIDE, TOTAL (MG/L)	**L-TP-1D**	**-0.03899**	**-34**	**-31**	**Yes**	**11**	**45.45**	**n/a**	**n/a**	**0.02**	**NP**
FLUORIDE, TOTAL (MG/L)	L-TP-2D	-0.06141	-26	-31	No	11	9.091	n/a	n/a	0.02	NP
FLUORIDE, TOTAL (MG/L)	**L-TP-2M**	**-0.09088**	**-39**	**-31**	**Yes**	**11**	**27.27**	**n/a**	**n/a**	**0.02**	**NP**
FLUORIDE, TOTAL (MG/L)	L-TP-3D	-0.06531	-26	-31	No	11	54.55	n/a	n/a	0.02	NP
FLUORIDE, TOTAL (MG/L)	L-TP-3M	-0.03904	-22	-31	No	11	45.45	n/a	n/a	0.02	NP
FLUORIDE, TOTAL (MG/L)	**L-TP-4D**	**-0.04463**	**-35**	**-31**	**Yes**	**11**	**45.45**	**n/a**	**n/a**	**0.02**	**NP**
FLUORIDE, TOTAL (MG/L)	**L-AMW-8**	**-0.07**	**-42**	**-31**	**Yes**	**11**	**27.27**	**n/a**	**n/a**	**0.02**	**NP**
FLUORIDE, TOTAL (MG/L)	L-MW-24	-0.0393	-31	-31	No	11	45.45	n/a	n/a	0.02	NP
FLUORIDE, TOTAL (MG/L)	L-MW-33[D]	-0.07662	-20	-31	No	11	45.45	n/a	n/a	0.02	NP
FLUORIDE, TOTAL (MG/L)	**L-MW-34[D]**	**-0.06844**	**-35**	**-31**	**Yes**	**11**	**45.45**	**n/a**	**n/a**	**0.02**	**NP**
FLUORIDE, TOTAL (MG/L)	L-MW-35[D]	-0.06441	-25	-31	No	11	45.45	n/a	n/a	0.02	NP
FLUORIDE, TOTAL (MG/L)	L-S-1	-0.04063	-25	-27	No	10	50	n/a	n/a	0.02	NP
LITHIUM, TOTAL (UG/L)	L-LMW-1S	-0.9148	-12	-31	No	11	9.091	n/a	n/a	0.02	NP
LITHIUM, TOTAL (UG/L)	**L-LMW-2S**	**1.054**	**53**	**35**	**Yes**	**12**	**0**	**n/a**	**n/a**	**0.02**	**NP**
LITHIUM, TOTAL (UG/L)	L-LMW-4S	0	0	31	No	11	0	n/a	n/a	0.02	NP
LITHIUM, TOTAL (UG/L)	L-LMW-7S	-0.3008	-5	-31	No	11	0	n/a	n/a	0.02	NP
LITHIUM, TOTAL (UG/L)	L-LMW-8S	-0.301	-7	-27	No	10	10	n/a	n/a	0.02	NP
LITHIUM, TOTAL (UG/L)	L-MW-26	1.177	23	31	No	11	0	n/a	n/a	0.02	NP
LITHIUM, TOTAL (UG/L)	L-AM-1D	-0.7766	-25	-31	No	11	0	n/a	n/a	0.02	NP
LITHIUM, TOTAL (UG/L)	L-AM-1S	1.208	21	31	No	11	0	n/a	n/a	0.02	NP
LITHIUM, TOTAL (UG/L)	L-TP-1D	0.268	12	27	No	10	0	n/a	n/a	0.02	NP
LITHIUM, TOTAL (UG/L)	L-TP-2D	0	0	31	No	11	0	n/a	n/a	0.02	NP
LITHIUM, TOTAL (UG/L)	L-TP-2M	0.4876	17	27	No	10	0	n/a	n/a	0.02	NP
LITHIUM, TOTAL (UG/L)	L-TP-3D	0.9012	23	31	No	11	0	n/a	n/a	0.02	NP
LITHIUM, TOTAL (UG/L)	L-TP-3M	-1.023	-20	-31	No	11	0	n/a	n/a	0.02	NP
LITHIUM, TOTAL (UG/L)	L-TP-4D	0.4595	12	27	No	10	0	n/a	n/a	0.02	NP
LITHIUM, TOTAL (UG/L)	L-AMW-8	0.9	19	31	No	11	0	n/a	n/a	0.02	NP
LITHIUM, TOTAL (UG/L)	L-MW-24	-1.082	-19	-31	No	11	0	n/a	n/a	0.02	NP
LITHIUM, TOTAL (UG/L)	L-MW-33[D]	0.5157	16	23	No	9	0	n/a	n/a	0.02	NP
LITHIUM, TOTAL (UG/L)	L-MW-34[D]	0.7778	23	31	No	11	0	n/a	n/a	0.02	NP
LITHIUM, TOTAL (UG/L)	L-MW-35[D]	-0.1995	-4	-31	No	11	0	n/a	n/a	0.02	NP
LITHIUM, TOTAL (UG/L)	L-S-1	0.8058	12	31	No	11	0	n/a	n/a	0.02	NP
MOLYBDENUM, TOTAL (UG/L)	**L-LMW-1S**	**-1.153**	**-32**	**-31**	**Yes**	**11**	**9.091**	**n/a**	**n/a**	**0.02**	**NP**
MOLYBDENUM, TOTAL (UG/L)	**L-LMW-2S**	**33.95**	**33**	**31**	**Yes**	**11**	**0**	**n/a**	**n/a**	**0.02**	**NP**
MOLYBDENUM, TOTAL (UG/L)	L-LMW-4S	6.002	7	31	No	11	0	n/a	n/a	0.02	NP
MOLYBDENUM, TOTAL (UG/L)	L-LMW-7S	-3.149	-17	-31	No	11	0	n/a	n/a	0.02	NP
MOLYBDENUM, TOTAL (UG/L)	L-LMW-8S	-27.2	-14	-31	No	11	0	n/a	n/a	0.02	NP
MOLYBDENUM, TOTAL (UG/L)	L-MW-26	0	0	31	No	11	81.82	n/a	n/a	0.02	NP
MOLYBDENUM, TOTAL (UG/L)	L-AM-1D	-16.21	-31	-35	No	12	0	n/a	n/a	0.02	NP
MOLYBDENUM, TOTAL (UG/L)	L-AM-1S	0.5602	11	35	No	12	25	n/a	n/a	0.02	NP
MOLYBDENUM, TOTAL (UG/L)	L-TP-1D	0.02668	20	44	No	14	85.71	n/a	n/a	0.02	NP
MOLYBDENUM, TOTAL (UG/L)	L-TP-2D	-6.348	-43	-44	No	14	0	n/a	n/a	0.02	NP

Trend Test

Labadie E.C. Client: Ameren Data: LEC DATA Printed 3/19/2025, 5:12 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
MOLYBDENUM, TOTAL (UG/L)	**L-TP-2M**	**-7.593**	**-61**	**-44**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.02**	**NP**
MOLYBDENUM, TOTAL (UG/L)	**L-TP-3D**	**-105.4**	**-64**	**-44**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.02**	**NP**
MOLYBDENUM, TOTAL (UG/L)	L-TP-3M	28.2	35	44	No	14	0	n/a	n/a	0.02	NP
MOLYBDENUM, TOTAL (UG/L)	**L-TP-4D**	**0.5069**	**55**	**44**	**Yes**	**14**	**14.29**	**n/a**	**n/a**	**0.02**	**NP**
MOLYBDENUM, TOTAL (UG/L)	L-AMW-8	-9.777	-24	-39	No	13	0	n/a	n/a	0.02	NP
MOLYBDENUM, TOTAL (UG/L)	L-MW-24	0.1016	9	27	No	10	60	n/a	n/a	0.02	NP
MOLYBDENUM, TOTAL (UG/L)	**L-MW-33[D]**	**-111.8**	**-47**	**-31**	**Yes**	**11**	**0**	**n/a**	**n/a**	**0.02**	**NP**
MOLYBDENUM, TOTAL (UG/L)	**L-MW-34[D]**	**-83.51**	**-45**	**-31**	**Yes**	**11**	**0**	**n/a**	**n/a**	**0.02**	**NP**
MOLYBDENUM, TOTAL (UG/L)	L-MW-35[D]	-34.93	-25	-31	No	11	0	n/a	n/a	0.02	NP
MOLYBDENUM, TOTAL (UG/L)	L-S-1	-0.1381	-23	-27	No	10	90	n/a	n/a	0.02	NP
Radium [226 + 228] (PCI/L)	L-LMW-1S	0.01368	7	31	No	11	100	n/a	n/a	0.02	NP
Radium [226 + 228] (PCI/L)	L-LMW-2S	-0.0122	-5	-31	No	11	100	n/a	n/a	0.02	NP
Radium [226 + 228] (PCI/L)	L-LMW-4S	-0.02021	-11	-31	No	11	100	n/a	n/a	0.02	NP
Radium [226 + 228] (PCI/L)	L-LMW-7S	0.04754	13	27	No	10	100	n/a	n/a	0.02	NP
Radium [226 + 228] (PCI/L)	L-LMW-8S	0.01233	13	31	No	11	100	n/a	n/a	0.02	NP
Radium [226 + 228] (PCI/L)	L-MW-26	-0.05829	-15	-31	No	11	100	n/a	n/a	0.02	NP
Radium [226 + 228] (PCI/L)	L-AM-1D	0.03377	13	31	No	11	81.82	n/a	n/a	0.02	NP
Radium [226 + 228] (PCI/L)	L-AM-1S	0.0536	13	27	No	10	100	n/a	n/a	0.02	NP
Radium [226 + 228] (PCI/L)	L-TP-1D	-0.2562	-17	-31	No	11	0	n/a	n/a	0.02	NP
Radium [226 + 228] (PCI/L)	L-TP-2D	-0.08768	-5	-31	No	11	72.73	n/a	n/a	0.02	NP
Radium [226 + 228] (PCI/L)	L-TP-2M	-0.2314	-13	-31	No	11	54.55	n/a	n/a	0.02	NP
Radium [226 + 228] (PCI/L)	L-TP-3D	0.02438	5	27	No	10	100	n/a	n/a	0.02	NP
Radium [226 + 228] (PCI/L)	L-TP-3M	-0.1079	-3	-31	No	11	36.36	n/a	n/a	0.02	NP
Radium [226 + 228] (PCI/L)	L-TP-4D	0.1529	7	31	No	11	9.091	n/a	n/a	0.02	NP
Radium [226 + 228] (PCI/L)	L-AMW-8	-0.00...	-1	-31	No	11	81.82	n/a	n/a	0.02	NP
Radium [226 + 228] (PCI/L)	L-MW-24	-0.02309	-21	-31	No	11	81.82	n/a	n/a	0.02	NP
Radium [226 + 228] (PCI/L)	L-MW-33[D]	0.00294	1	31	No	11	72.73	n/a	n/a	0.02	NP
Radium [226 + 228] (PCI/L)	L-MW-34[D]	-0.05021	-9	-31	No	11	72.73	n/a	n/a	0.02	NP
Radium [226 + 228] (PCI/L)	L-MW-35[D]	-0.02035	-3	-31	No	11	81.82	n/a	n/a	0.02	NP
Radium [226 + 228] (PCI/L)	L-S-1	0.02537	5	31	No	11	72.73	n/a	n/a	0.02	NP
SELENIUM, TOTAL (UG/L)	L-LMW-1S	0.09316	20	27	No	10	60	n/a	n/a	0.02	NP
SELENIUM, TOTAL (UG/L)	L-LMW-2S	0	6	31	No	11	36.36	n/a	n/a	0.02	NP
SELENIUM, TOTAL (UG/L)	L-LMW-4S	0	20	31	No	11	63.64	n/a	n/a	0.02	NP
SELENIUM, TOTAL (UG/L)	L-LMW-7S	0	11	31	No	11	72.73	n/a	n/a	0.02	NP
SELENIUM, TOTAL (UG/L)	L-LMW-8S	0.3106	28	31	No	11	54.55	n/a	n/a	0.02	NP
SELENIUM, TOTAL (UG/L)	**L-MW-26**	**1.104**	**32**	**31**	**Yes**	**11**	**0**	**n/a**	**n/a**	**0.02**	**NP**
SELENIUM, TOTAL (UG/L)	L-AM-1D	0	0	31	No	11	100	n/a	n/a	0.02	NP
SELENIUM, TOTAL (UG/L)	**L-AM-1S**	**0.1228**	**33**	**31**	**Yes**	**11**	**45.45**	**n/a**	**n/a**	**0.02**	**NP**
SELENIUM, TOTAL (UG/L)	L-TP-1D	0	0	31	No	11	100	n/a	n/a	0.02	NP
SELENIUM, TOTAL (UG/L)	L-TP-2D	0	0	31	No	11	100	n/a	n/a	0.02	NP
SELENIUM, TOTAL (UG/L)	L-TP-2M	0	0	31	No	11	100	n/a	n/a	0.02	NP
SELENIUM, TOTAL (UG/L)	L-TP-3D	0	0	31	No	11	100	n/a	n/a	0.02	NP
SELENIUM, TOTAL (UG/L)	L-TP-3M	0	0	31	No	11	100	n/a	n/a	0.02	NP
SELENIUM, TOTAL (UG/L)	L-TP-4D	0	0	31	No	11	100	n/a	n/a	0.02	NP
SELENIUM, TOTAL (UG/L)	L-AMW-8	0	0	31	No	11	100	n/a	n/a	0.02	NP
SELENIUM, TOTAL (UG/L)	L-MW-24	5.509	26	31	No	11	18.18	n/a	n/a	0.02	NP
SELENIUM, TOTAL (UG/L)	L-MW-33[D]	0	0	31	No	11	100	n/a	n/a	0.02	NP
SELENIUM, TOTAL (UG/L)	L-MW-34[D]	0	0	31	No	11	100	n/a	n/a	0.02	NP
SELENIUM, TOTAL (UG/L)	L-MW-35[D]	0	0	31	No	11	100	n/a	n/a	0.02	NP
SELENIUM, TOTAL (UG/L)	**L-S-1**	**0.3214**	**29**	**27**	**Yes**	**10**	**40**	**n/a**	**n/a**	**0.02**	**NP**

Appendix E

April 2025 Corrective Action Statistical Evaluation

Memorandum

September 12, 2025

To:	Bill Kutosky – Ameren Missouri	**Project Number:**	23007-25
CC:	Ameren Missouri - Susan Knowles, Craig Giesmann, Lisa Meyer, Austin Nieman		
From:	Rocksmith Geoengineering – Mark Haddock, P.E., R.G., Jeff Ingram, R.G., Grant Morey, R.G.	**Email:**	jeff.ingram@rocksmithgeo.com
RE:	**Corrective Action Statistical Evaluation – LCPA Surface Impoundment Labadie Energy Center, Franklin County, Missouri**		

1.0 INTRODUCTION

This Technical Memorandum provides the results of the Corrective Action Monitoring statistical analysis from the April 2025 sampling event for the LCPA Surface Impoundment at the Labadie Energy Center (LEC) located in Franklin County, Missouri. As outlined in the 2019 Remedy Selection Report for the LCPA, Corrective Action at the LCPA consists of two phases, as follows:

1) Source control, stabilization, and containment of CCR by installation of a low-permeability geomembrane cap.
2) Once source control is achieved, monitor the natural attenuation (MNA) of groundwater concentrations to address limited and localized CCR-related impacts. Ongoing monitoring and modeling evaluations will document that concentrations are decreasing as modelled. MNA occurs due to naturally occurring processes within the aquifer.

Phase 1 of Corrective Action commenced on September 28, 2019 and was substantially completed on December 30, 2020 with the installation of a low permeability cover system. Since that time, the LCPA has been subject to the post-closure care requirements of the CCR Rule, and Phase 2 of Corrective Action is ongoing. A Supplemental Remedy Selection report was prepared for the LCPA in August 2024 by Haley & Aldrich. This report documents the results of the above corrective measures since their inception as well as future supplemental measures that may be applied in the future. The report notes that source control, in addition to ongoing natural attenuation, appears to contribute to a general reduction in groundwater constituent concentrations near the LCPA. As of this evaluation, potential supplemental corrective measures are being planned for the LEC, including a groundwater treatment system similar to those in use at other Ameren facilities. Such a treatment system is expected to supplement the current source control and MNA remedy and enhance reductions in constituent concentrations.

As required by the CCR Rule, a Corrective Action monitoring program was implemented within 90 days of selecting a remedy, and the first sampling event was completed in April 2020. Twelve sampling events have been completed in total as a part of the Corrective Action Program at the LEC. This analysis uses results collected since the beginning of Corrective Action monitoring (April 2020) for the determination of constituents exceeding the groundwater protection standards (GWPSs), as data collected prior to this time were collected during active conditions at the LCPA, prior to cessation of CCR disposal in the LCPA and are not representative of groundwater conditions since the initiation of closure.

Included in this memorandum is a summary of constituents that are currently in exceedance of the GWPSs, a list of site-specific Groundwater Protection Standards (**Table 1**), and the Sanitas Technologies™ (Sanitas) statistical software output for each of the Appendix IV parameters (**Appendix A** and **Appendix B**).

Trend tests using the Sen's Slope/Mann-Kendall method require a minimum of eight independent results, as outlined in the USEPA Unified Guidance. Several constituents were reported at concentrations below the Practical Quantitation Limit (PQL) during the spring 2020, 2021, 2022, 2023, and/or 2024 sampling events, including: antimony, beryllium, cadmium, chromium, cobalt, lead, mercury, and thallium. During years when a constituent was reported at concentrations below the PQL in all wells, they were not re-sampled/tested during the subsequent semi-annual sampling event each calendar year. However, there are now a minimum of eight results for each constituent at each well, so this is the first Corrective Action statistical evaluation where trend tests were completed for all Appendix IV constituents.

2.0 STATISTICAL EVALUATION

The Appendix IV constituents were evaluated for exceedances above the GWPS using the methods and procedures outlined in the Corrective Action Groundwater Monitoring Plan's (CAGMP) Statistical Analysis Plan (SAP). An outlier analysis was completed as the first step of the statistical evaluation. The outlier analysis was performed only on the results collected as a part of the Corrective Action Monitoring Program. In addition to outliers noted in previous Corrective Action statistical evaluations, the following outliers were removed from the dataset prior to the calculation of confidence limits:

- Chromium
    - L-S-1 at 1.7 micrograms per liter (µg/L) on 10/30/2024: result is statistically higher than other chromium values at the same monitoring well. This higher result is not consistent with previous or subsequent chromium results at the well and is an outlier.
- Radium 226 + 228
    - L-MW-24 at 2.056 J picocuries per liter (pCi/L) on 11/2/2020: result is statistically higher than other radium values at the same monitoring well. This higher result is not consistent with previous or subsequent radium results at the well and is an outlier.
    - L-MW-33D at 1.734 J and 1.89 pCi/L on 4/15/2020 and 11/3/2021, respectively: results are statistically higher than other radium values at the same monitoring well. These higher results are not consistent with previous or subsequent radium results at the well and are outliers.
- Selenium
    - L-LMW-7S at 0.71 J and 2.0 µg/L on 5/18/2023 and 10/29/2024, respectively: results are statistically higher than other selenium values at the same monitoring well. These higher results are not consistent with previous or subsequent selenium results at the well and are outliers.

An analysis of the outliers removed to date in previous statistical evaluations was completed, and no statistical outliers previously removed were added back into the dataset prior to the calculation of confidence limits.

Following the outlier analysis, the second step in the statistical analysis was to calculate confidence intervals and compare those to the site-specific GWPSs (**Appendix A**). Confidence interval evaluation was supplemented with Sen's Slope/Mann Kendall Analysis per the USEPA Unified Guidance (**Appendix B**). The Sen's Slope/Mann-Kendall Analysis identifies well-analyte pairs that have statistically significant trends and calculates confidence

bands that vary with time. The upper confidence band, in relation to the GWPS for a given constituent, is used to determine exceedances, as outlined in the site CAGMP.

Using these corrective action statistical methods, as of the April 2025 sampling event, monitoring wells with constituents exceeding the GWPS are as follows:

- Arsenic at L-LMW-2S
- Molybdenum at L-LMW-2S, L-LMW-4S, L-LMW-7S, L-LMW-8S, L-AM-1D, L-TP-2D[1], L-TP-3D[1], L-TP-3M, L-AMW-8, L-MW-33[D][1], L-MW-34[D][1], and L-MW-35[D][1]

Previously identified arsenic and molybdenum exceedances identified in the statistical evaluation for the October-November 2024 sampling event remain as of this evaluation.

Variability in initial constituent concentrations directly after the closure of the LCPA is expected, especially at wells nearest the CCR unit, where closure grading and disturbance activities were greatest. The concentrations reported following closure are expected to be variable but are expected to decrease over time as stabilization occurs and supplemental corrective measures are put into service.

3.0 CLOSING

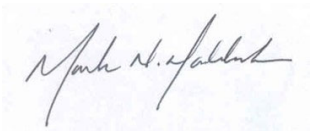
Rocksmith appreciates this opportunity to provide hydrogeological and engineering support services to Ameren. If you have any questions or comments regarding the information provided, please contact the undersigned.

Sincerely,

Rocksmith Geoengineering, LLC



Jeff Ingram, R.G.
Senior Geologist, Partner



Mark Haddock, P.E., R.G.
Principal Engineer, Senior Partner

Attachments

Tables

Table 1 – LCPA Groundwater Protection Standards

Appendices

Appendix A – Sanitas Confidence Interval Statistical Output

Appendix B – Sanitas Trending Confidence Bands Statistical Output

[1] As displayed in **Appendix B**, molybdenum concentrations at these wells exhibit a statistically significant decreasing trend at the 98% confidence level.

Tables

Table 1 - LCPA Groundwater Protection Standards
LCPA Surface Impoundment
Labadie Energy Center, Franklin County, MO

Parameter	Units	MCL or Health Based GWPS	Site GWPS	Value to Return to Detection Monitoring [6]
Antimony	µg/L	6	6	DQR
Arsenic	µg/L	10	44.2	44.2
Barium	µg/L	2000	2000	1290
Beryllium	µg/L	4	4	DQR
Cadmium	µg/L	5	5	DQR
Chromium	µg/L	100	100	1.2
Cobalt	µg/L	6	6	DQR
Fluoride	mg/L	4	4	0.29
Lead	µg/L	15	15	DQR
Lithium	µg/L	40	47.4	47.4
Mercury	µg/L	2	2	DQR
Molybdenum	µg/L	100	100	DQR
Radium 226 + 228	pCi/L	5	5	4.14
Selenium	µg/L	50	50	DQR
Thallium	µg/L	2	2	DQR

Notes:
1. µg/L - micrograms per liter.
2. mg/L - milligrams per liter.
3. pCi/L - picocuries per liter.
4. MCL - Maximum Contaminant Level. MCLs from United States Environmental Protection Agency (USEPA) National Primary Drinking Water Regulations. Updated December 12, 2024 at https://www.epa.gov/ground-water-and-drinking-water/national-primary-drinking-water-regulations
5. Health Based Groundwater Protection Standards (GWPS) were adoped for Appendix IV parameters without an MCL (i.e. cobalt, lithium, molybdenum, and lead). Information available at https://www.epa.gov/coalash/coal-ash-rule.
6. Values were calculated using statistical methods outlined for Detection Monitoring and are used for returning to Detection Monitoring based on available data to date.
7. DQR - Double Quantification Rule. If all baseline data are less than the Practical Quantitation Limit (PQL), then the DQR will be used. More information on the DQR is provided in the Statistical Analysis Plan.
8. Site GWPS is either the MCL/Health Based GWPS or based on background levels (calculated as described in the Statistical Analysis Plan for Assessment Monitoring), whichever is higher.
9. GWPS and background values calculated using results through August 2025 from monitoring wells BMW-1D and BMW-2D.

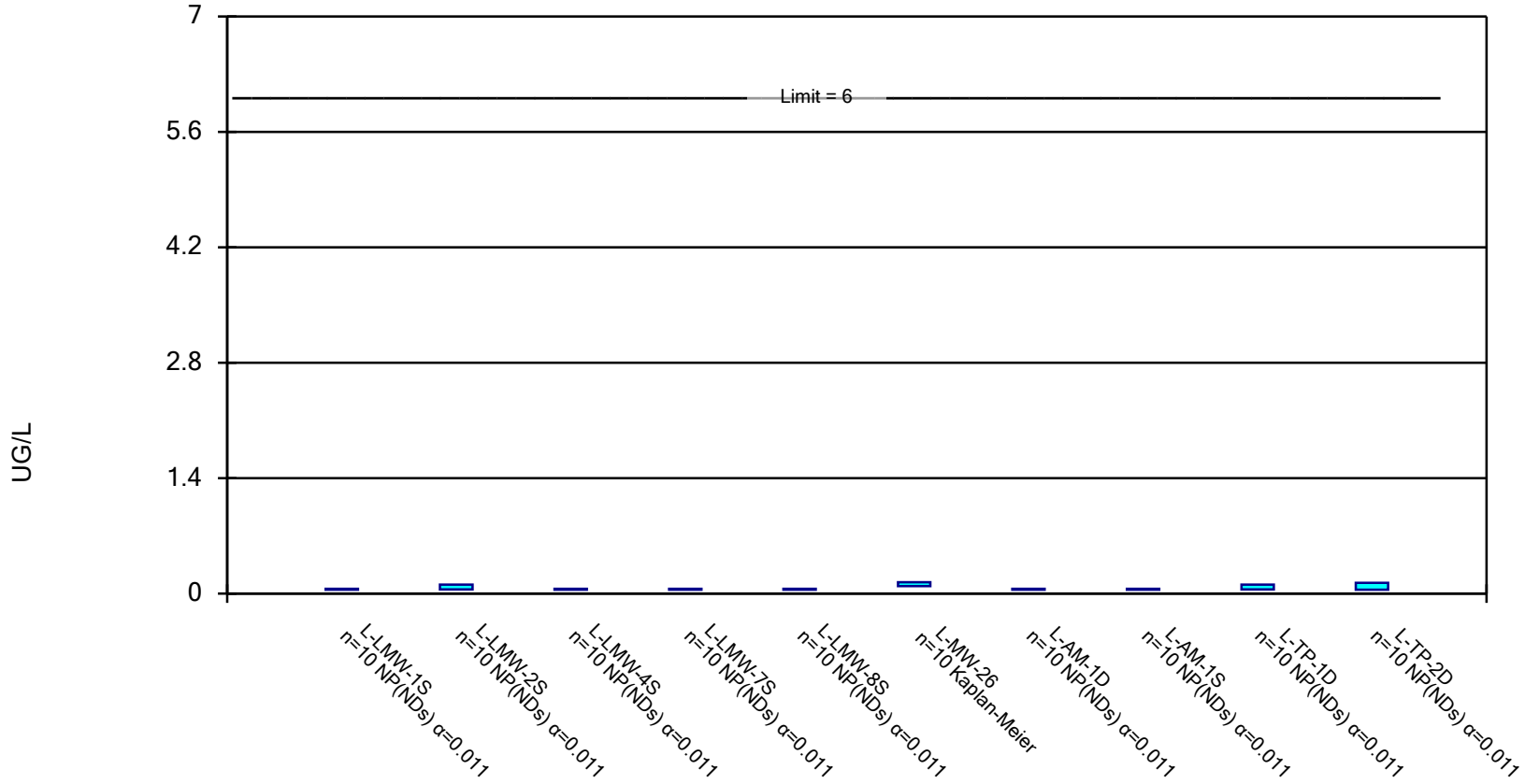
ROCKSMITH GEOENGINEERING

Prepared by: JTR
Checked by: GTM
Reviewed by: MNH

Appendix A
Sanitas Confidence Interval Statistical Output

Parametric and Non-Parametric (NP) Confidence Interval, Corrective Action Mode

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

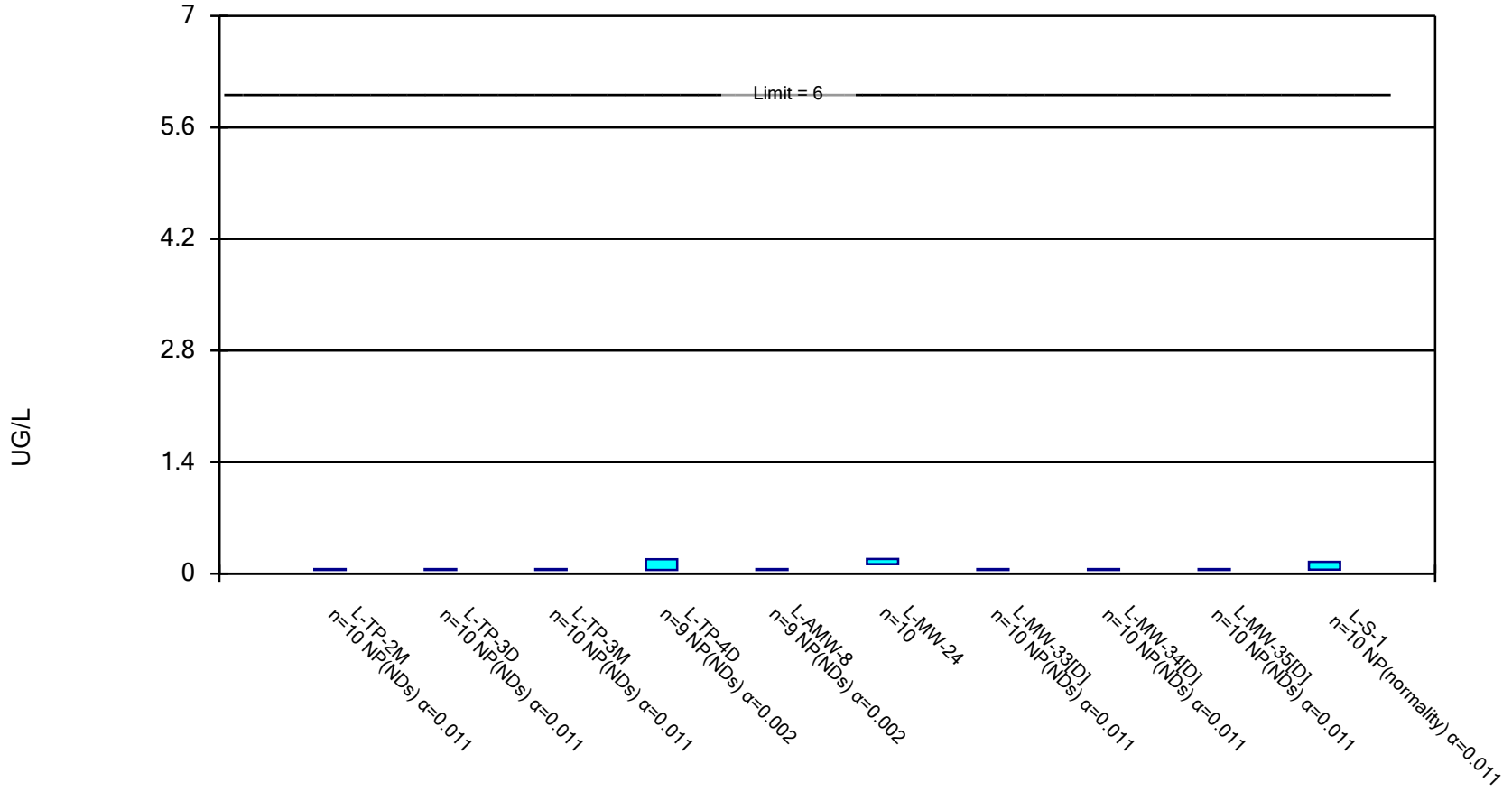


Constituent: ANTIMONY, TOTAL Analysis Run 8/14/2025 1:17 PM

Labadie E.C. Client: Ameren Data: LEC DATA

Parametric and Non-Parametric (NP) Confidence Interval, Corrective Action Mode

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



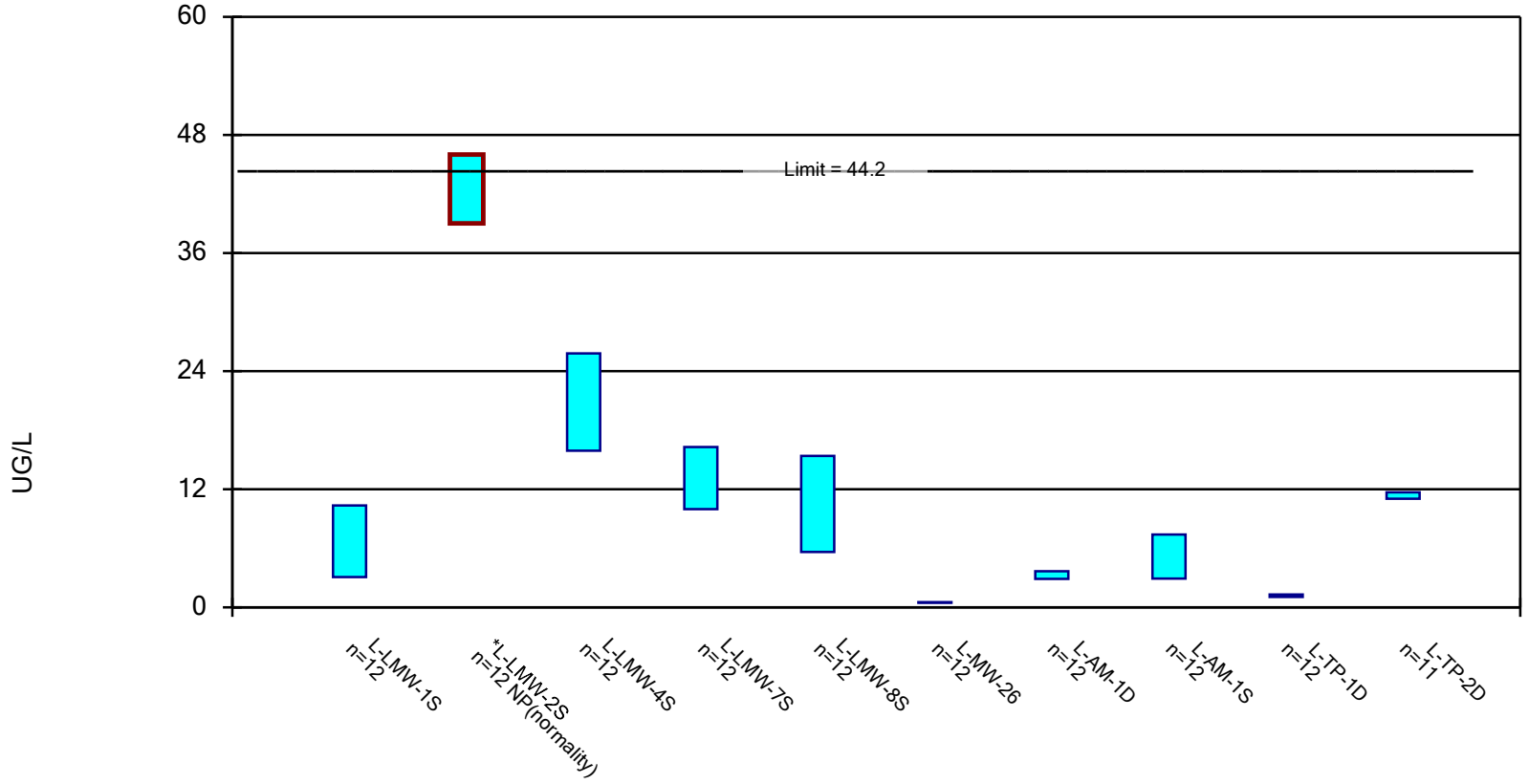
Constituent: ANTIMONY, TOTAL Analysis Run 8/14/2025 1:17 PM

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG

Parametric and Non-Parametric (NP) Confidence Interval, Corrective Action Mode

Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



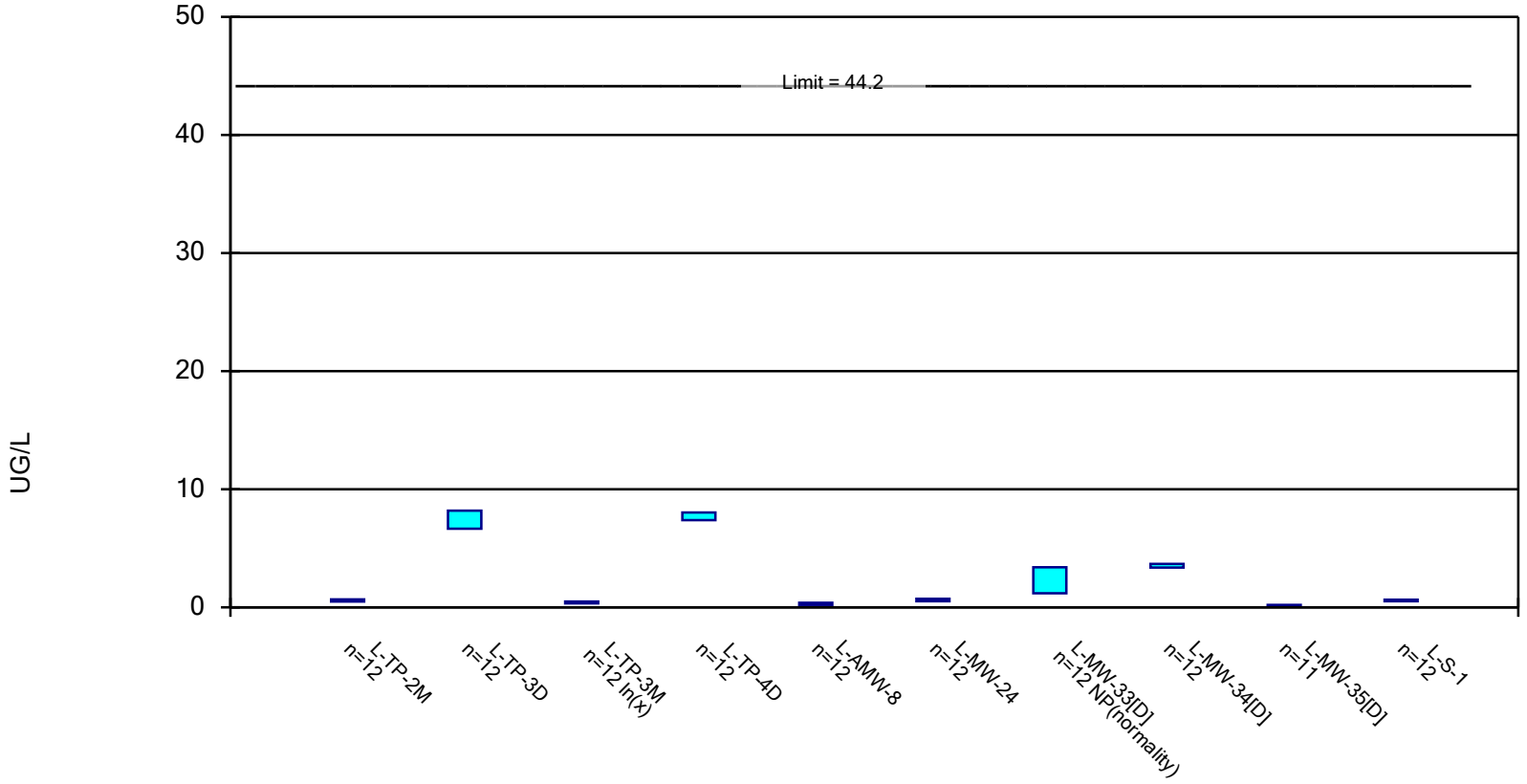
Constituent: ARSENIC, TOTAL Analysis Run 8/14/2025 1:17 PM

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG

Parametric and Non-Parametric (NP) Confidence Interval, Corrective Action Mode

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



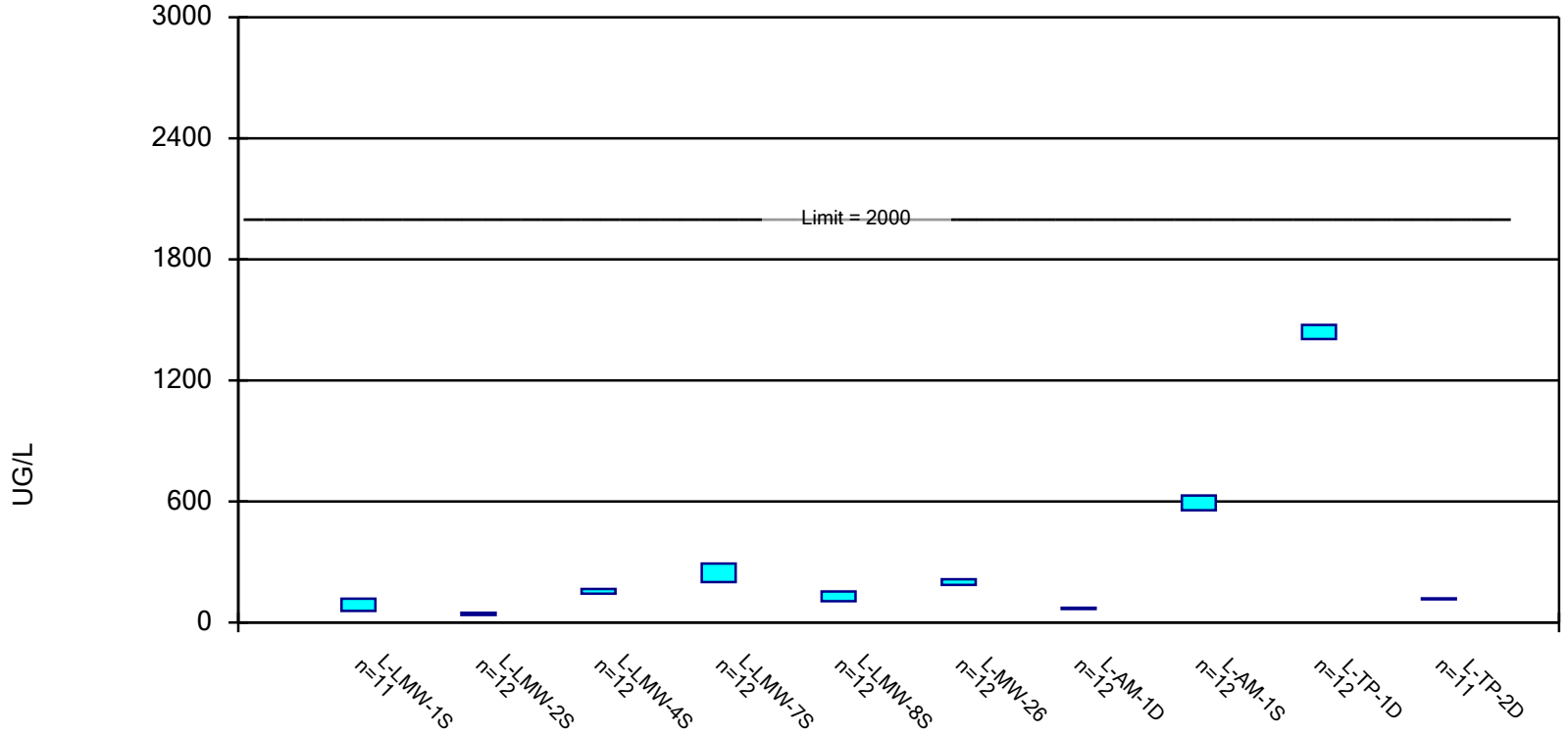
Constituent: ARSENIC, TOTAL Analysis Run 8/14/2025 1:17 PM

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG

Parametric Confidence Interval, Corrective Action Mode

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

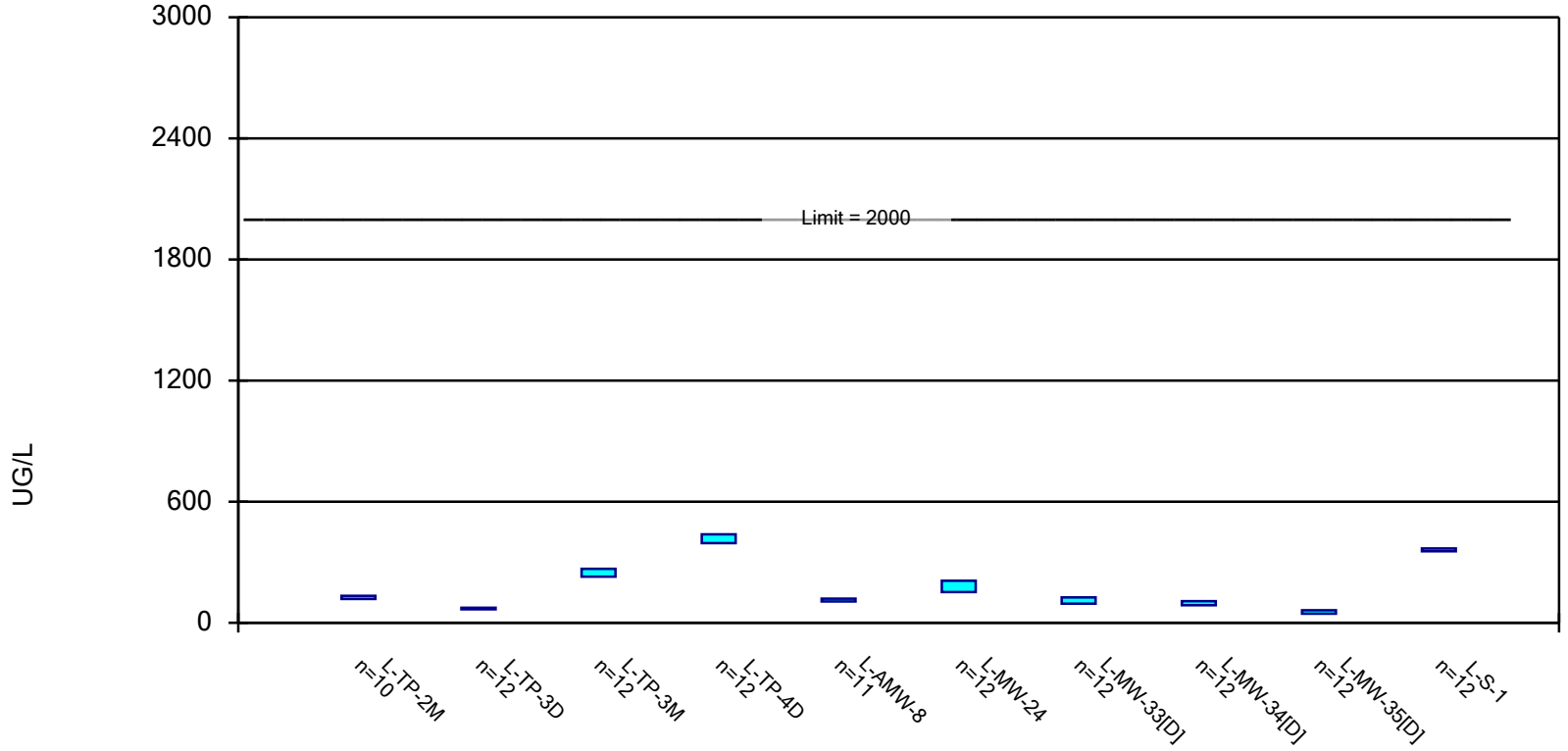


Constituent: BARIUM, TOTAL Analysis Run 8/14/2025 1:17 PM

Labadie E.C. Client: Ameren Data: LEC DATA

Parametric Confidence Interval, Corrective Action Mode

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

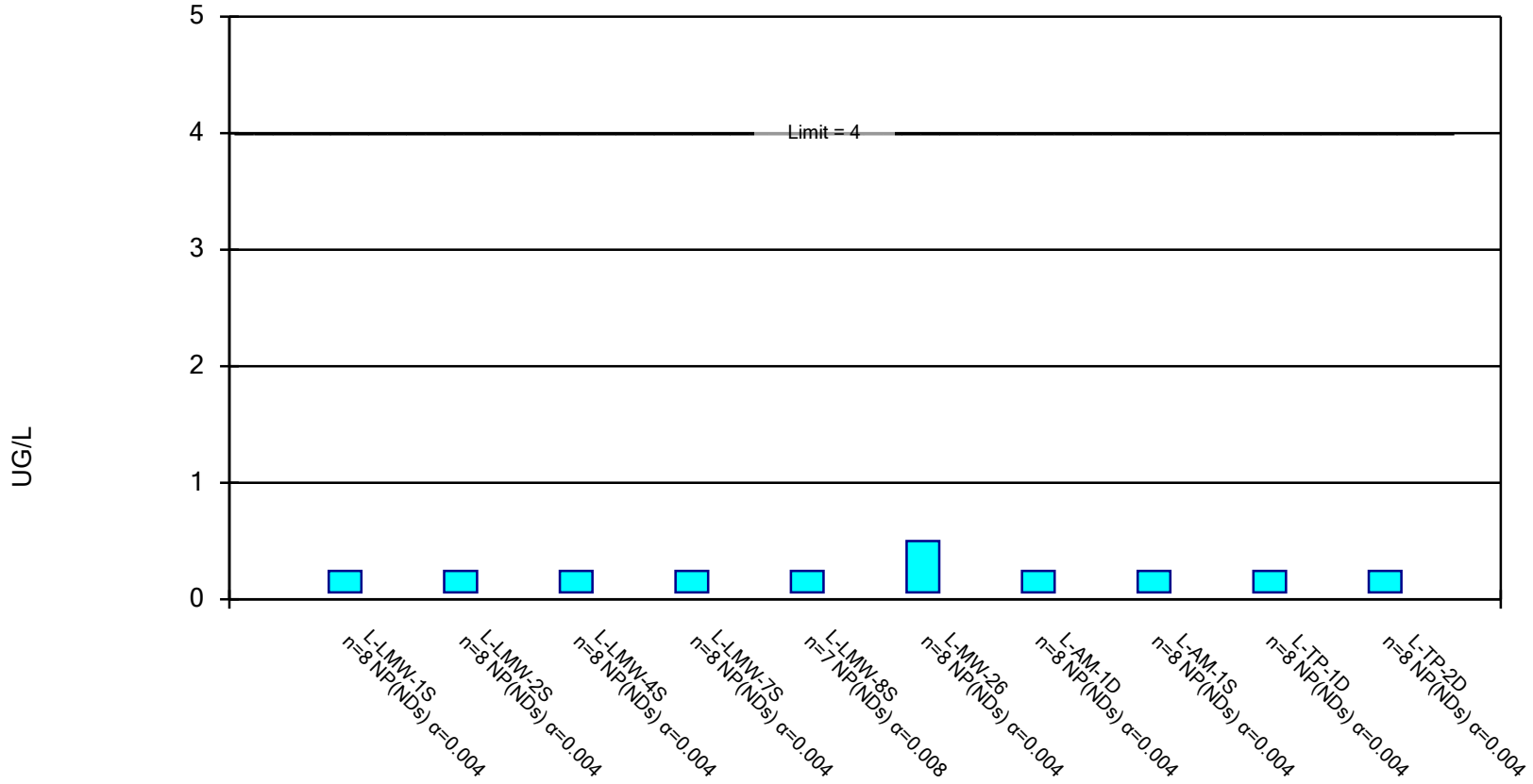


Constituent: BARIUM, TOTAL Analysis Run 8/14/2025 1:17 PM

Labadie E.C. Client: Ameren Data: LEC DATA

Non-Parametric Confidence Interval, Corrective Action Mode

Compliance Limit is not exceeded.



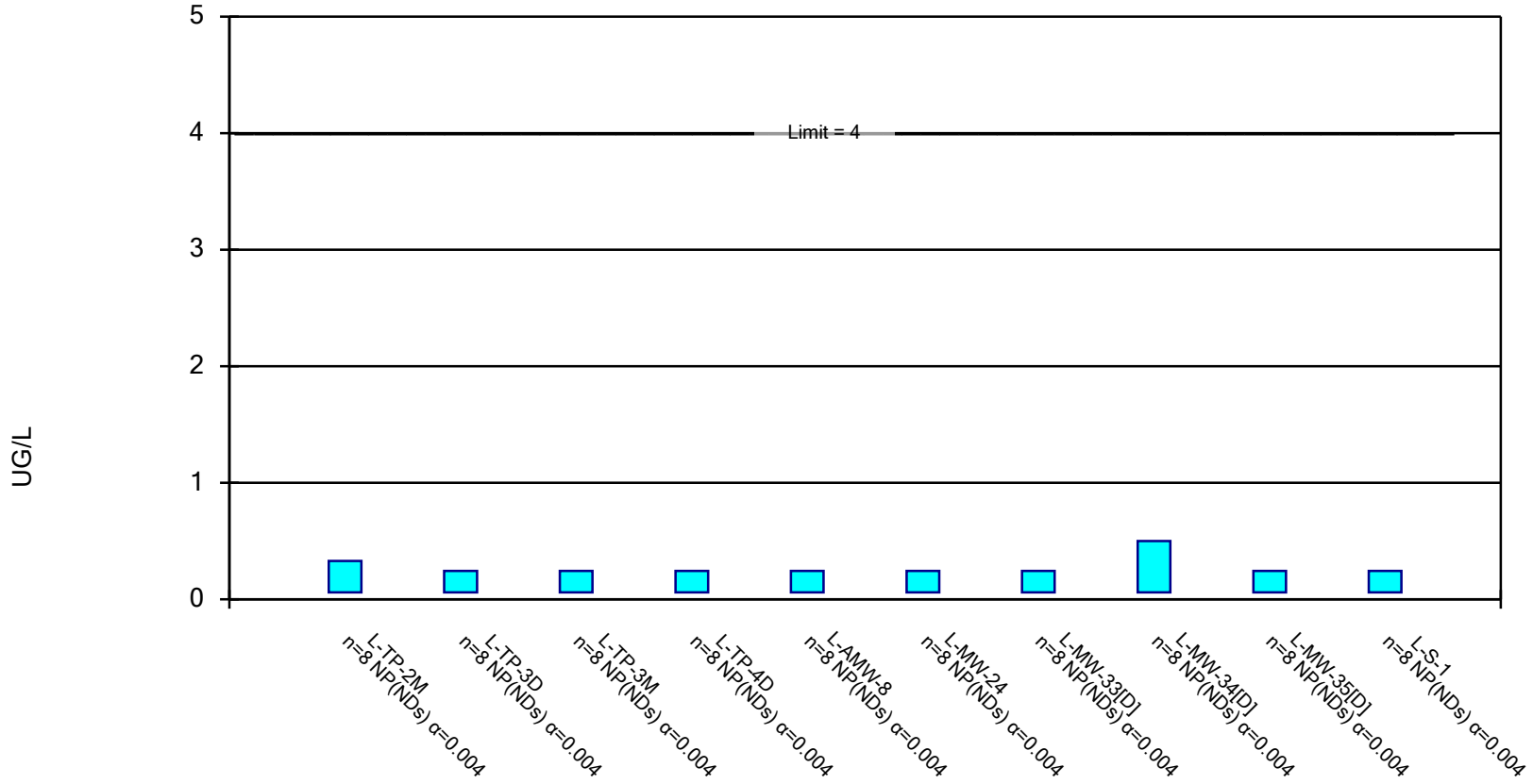
Constituent: BERYLLIUM, TOTAL Analysis Run 8/14/2025 1:17 PM

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG

Non-Parametric Confidence Interval, Corrective Action Mode

Compliance Limit is not exceeded.

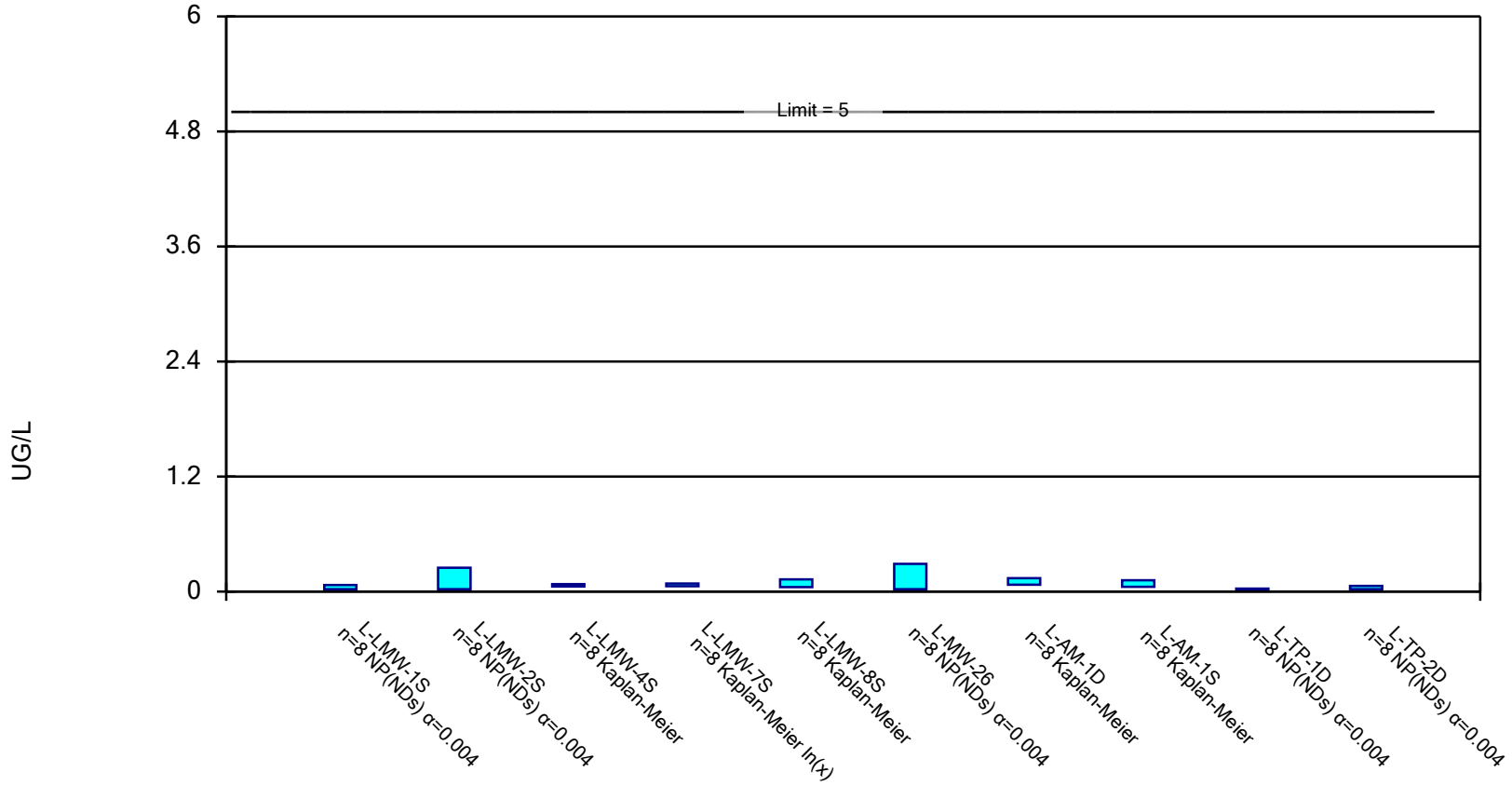


Constituent: BERYLLIUM, TOTAL Analysis Run 8/14/2025 1:18 PM

Labadie E.C. Client: Ameren Data: LEC DATA

Parametric and Non-Parametric (NP) Confidence Interval, Corrective Action Mode

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

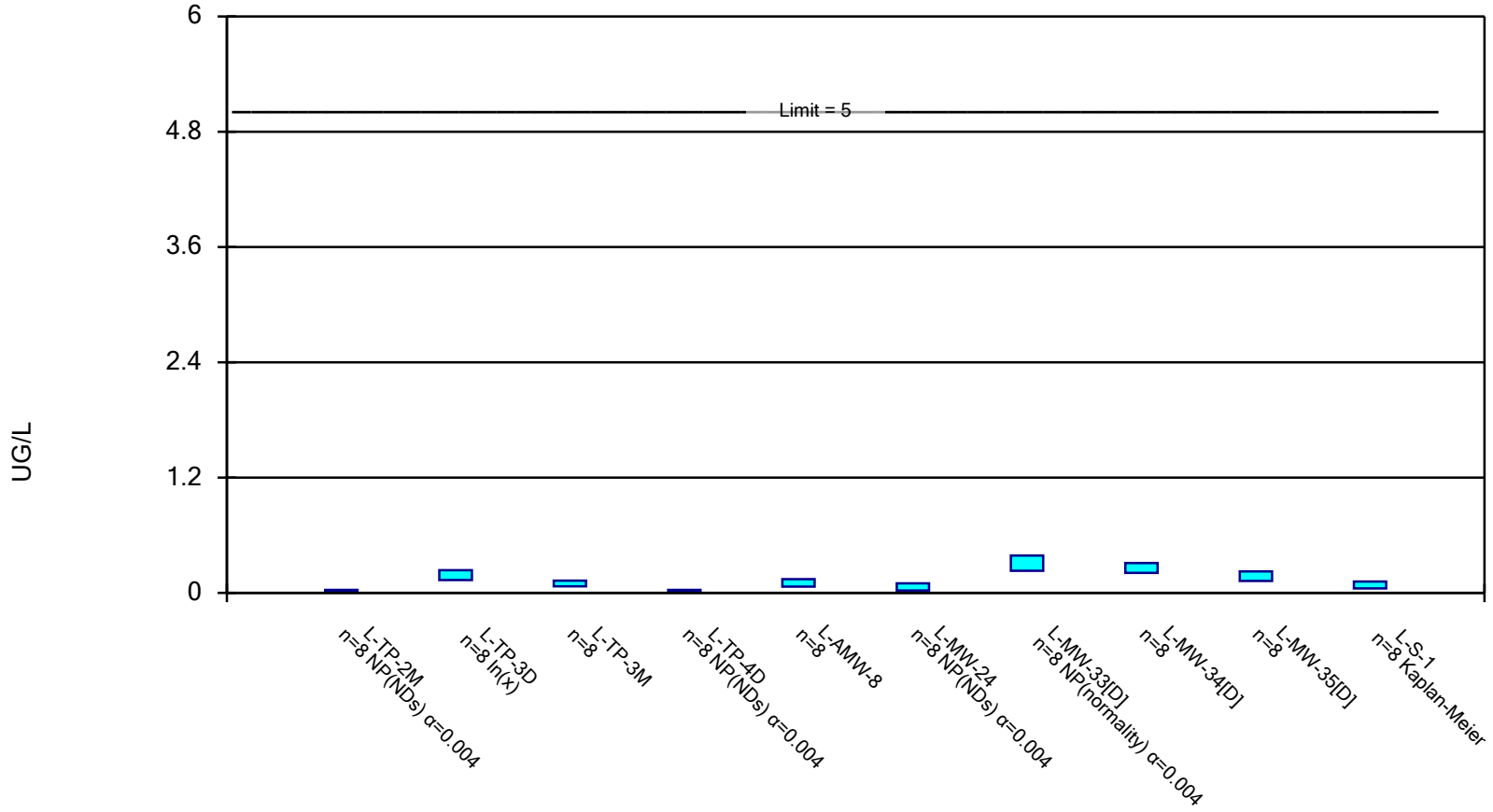


Constituent: CADMIUM, TOTAL Analysis Run 8/14/2025 1:18 PM

Labadie E.C. Client: Ameren Data: LEC DATA

Parametric and Non-Parametric (NP) Confidence Interval, Corrective Action Mode

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



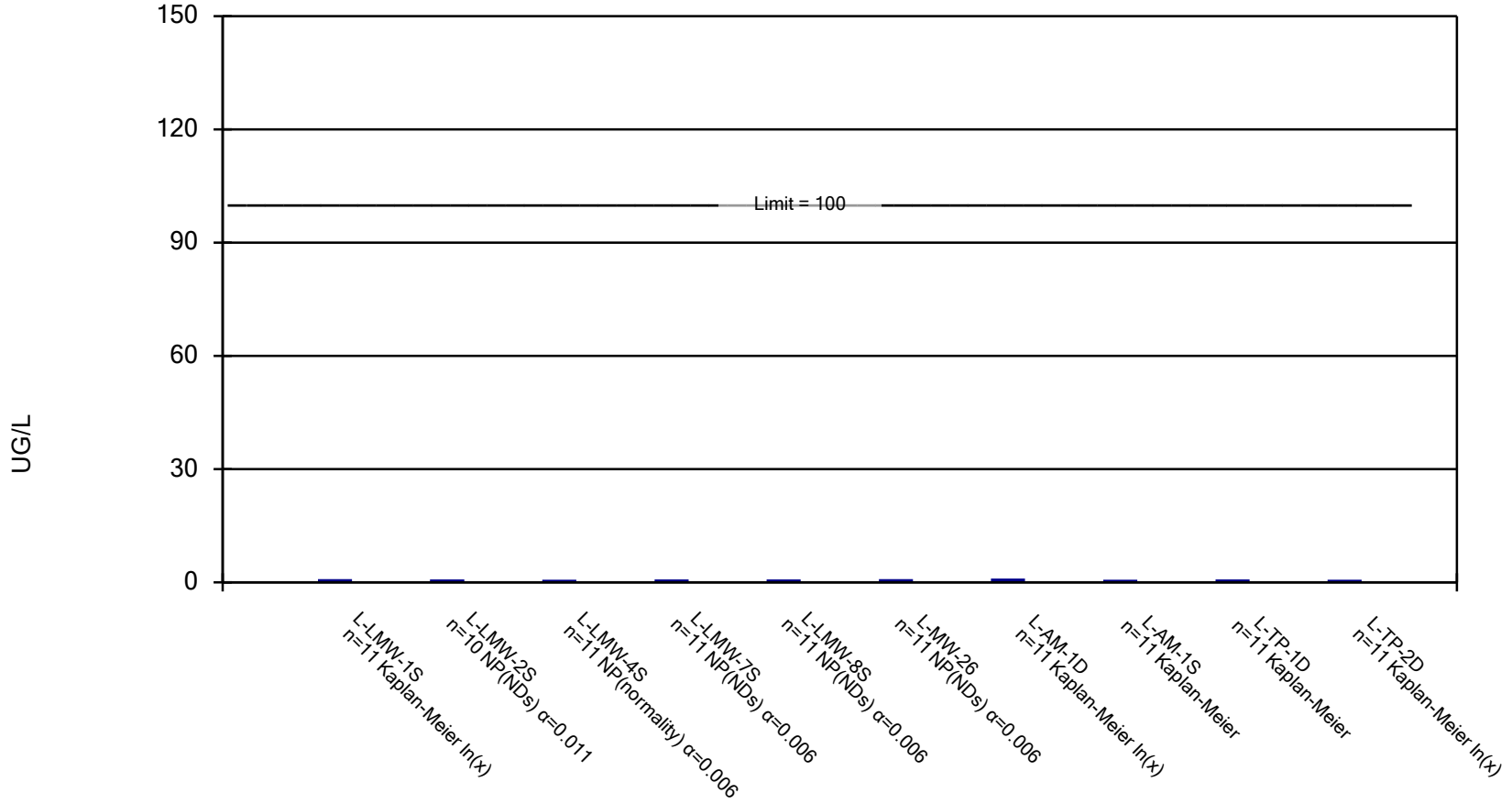
Constituent: CADMIUM, TOTAL Analysis Run 8/14/2025 1:18 PM

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG

Parametric and Non-Parametric (NP) Confidence Interval, Corrective Action Mode

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



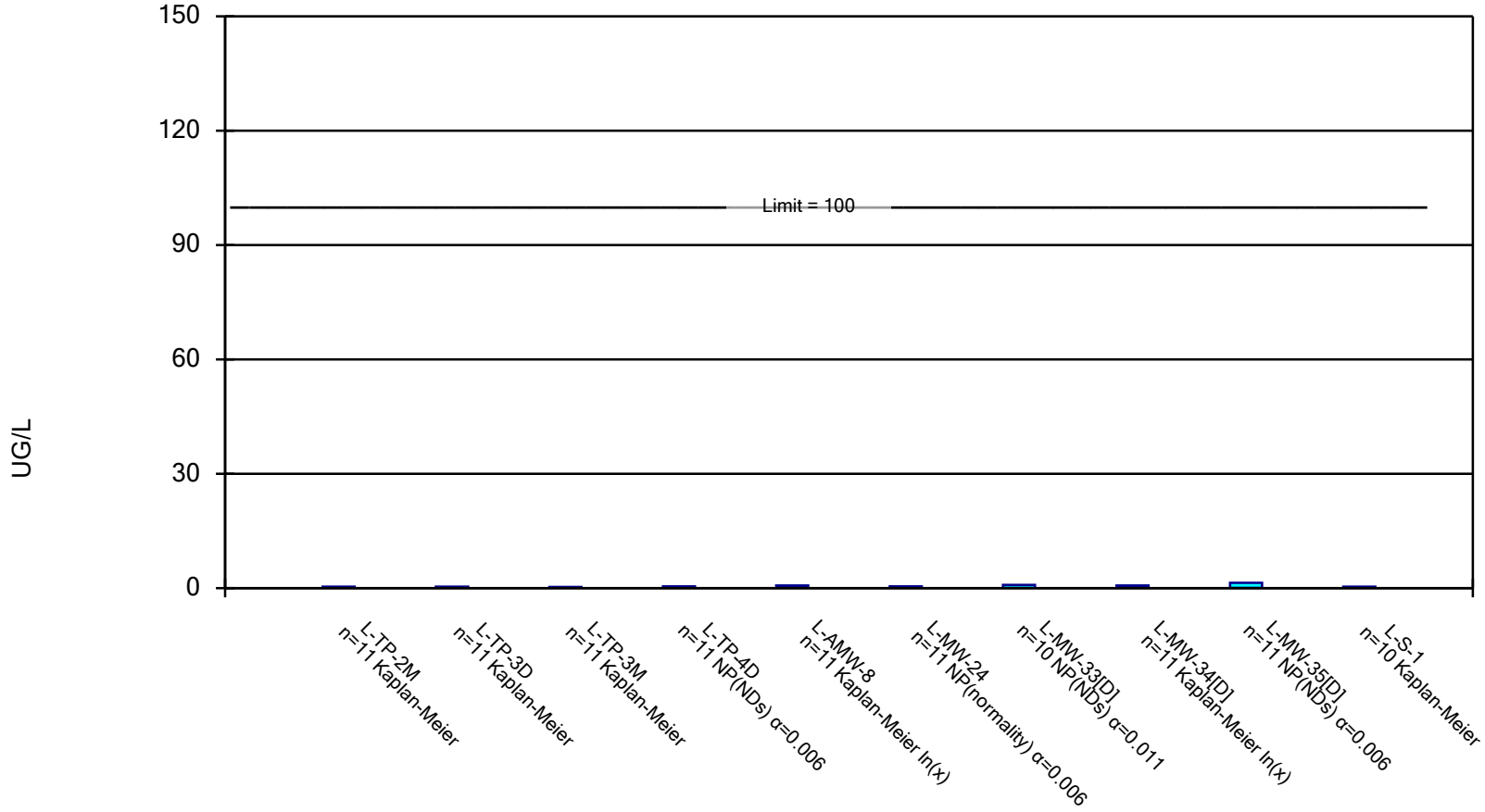
Constituent: CHROMIUM, TOTAL Analysis Run 8/14/2025 1:18 PM

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG

Parametric and Non-Parametric (NP) Confidence Interval, Corrective Action Mode

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



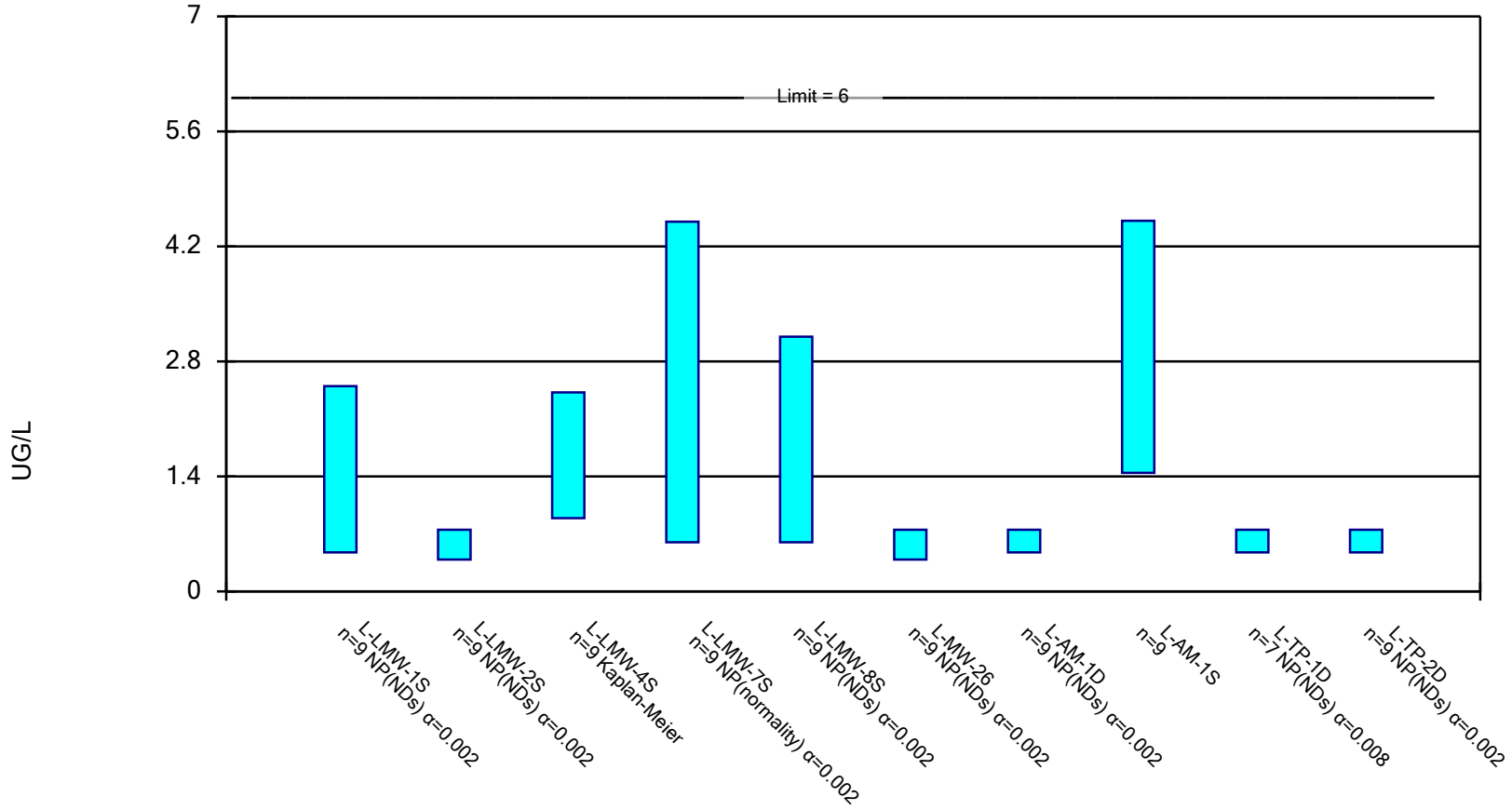
Constituent: CHROMIUM, TOTAL Analysis Run 8/14/2025 1:18 PM

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG

Parametric and Non-Parametric (NP) Confidence Interval, Corrective Action Mode

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

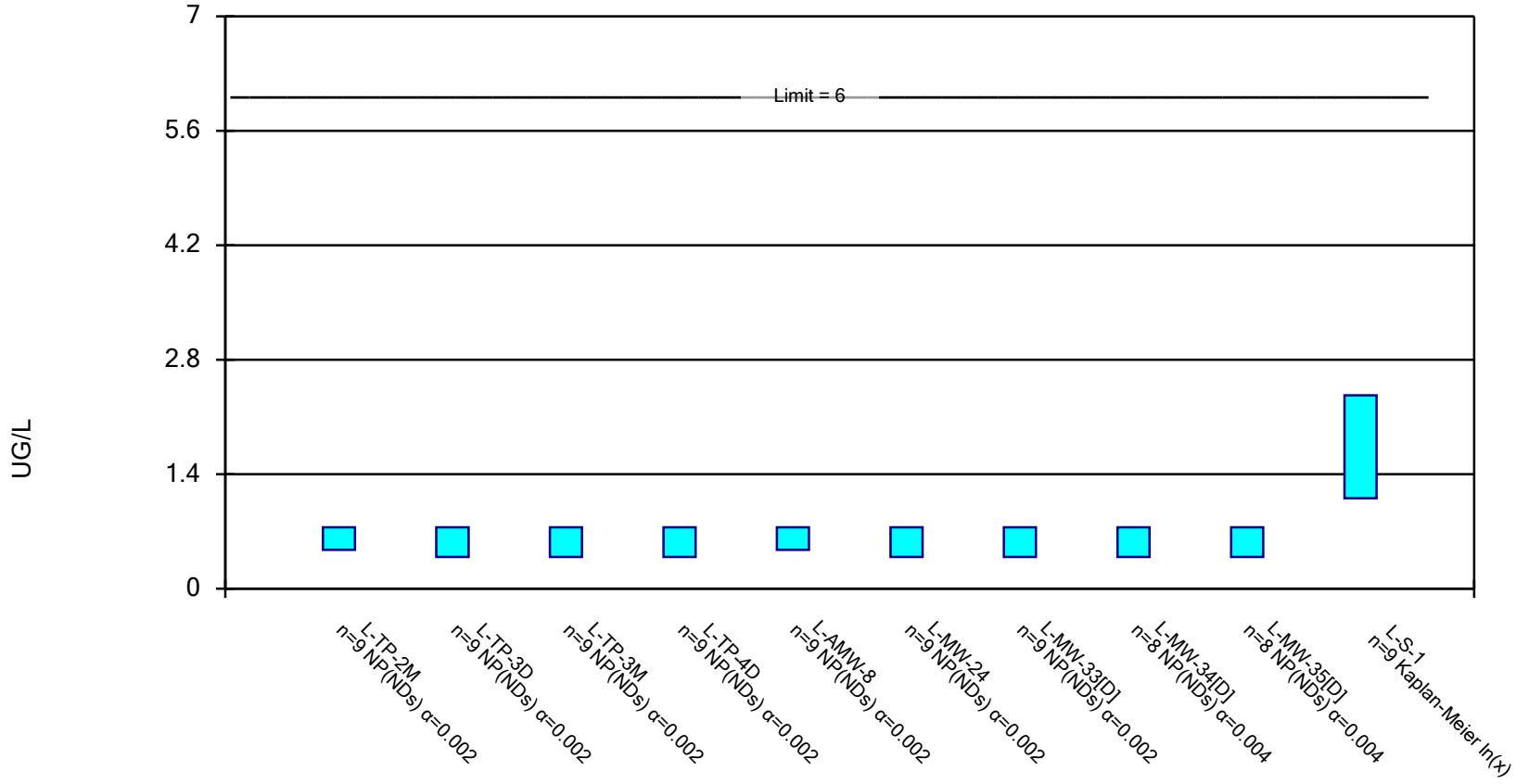


Constituent: COBALT, TOTAL Analysis Run 8/14/2025 1:18 PM

Labadie E.C. Client: Ameren Data: LEC DATA

Parametric and Non-Parametric (NP) Confidence Interval, Corrective Action Mode

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



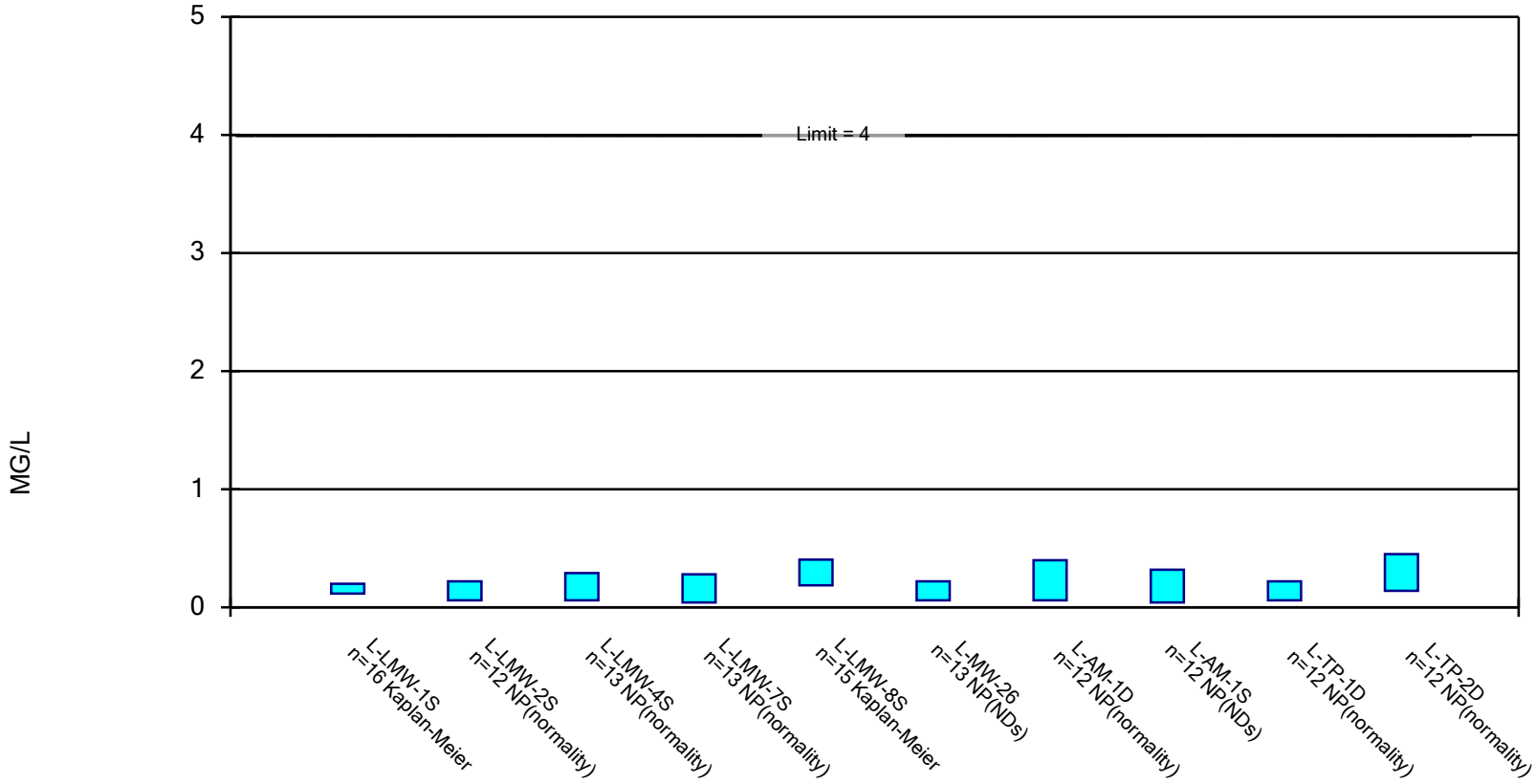
Constituent: COBALT, TOTAL Analysis Run 8/14/2025 1:18 PM

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG

Parametric and Non-Parametric (NP) Confidence Interval, Corrective Action Mode

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

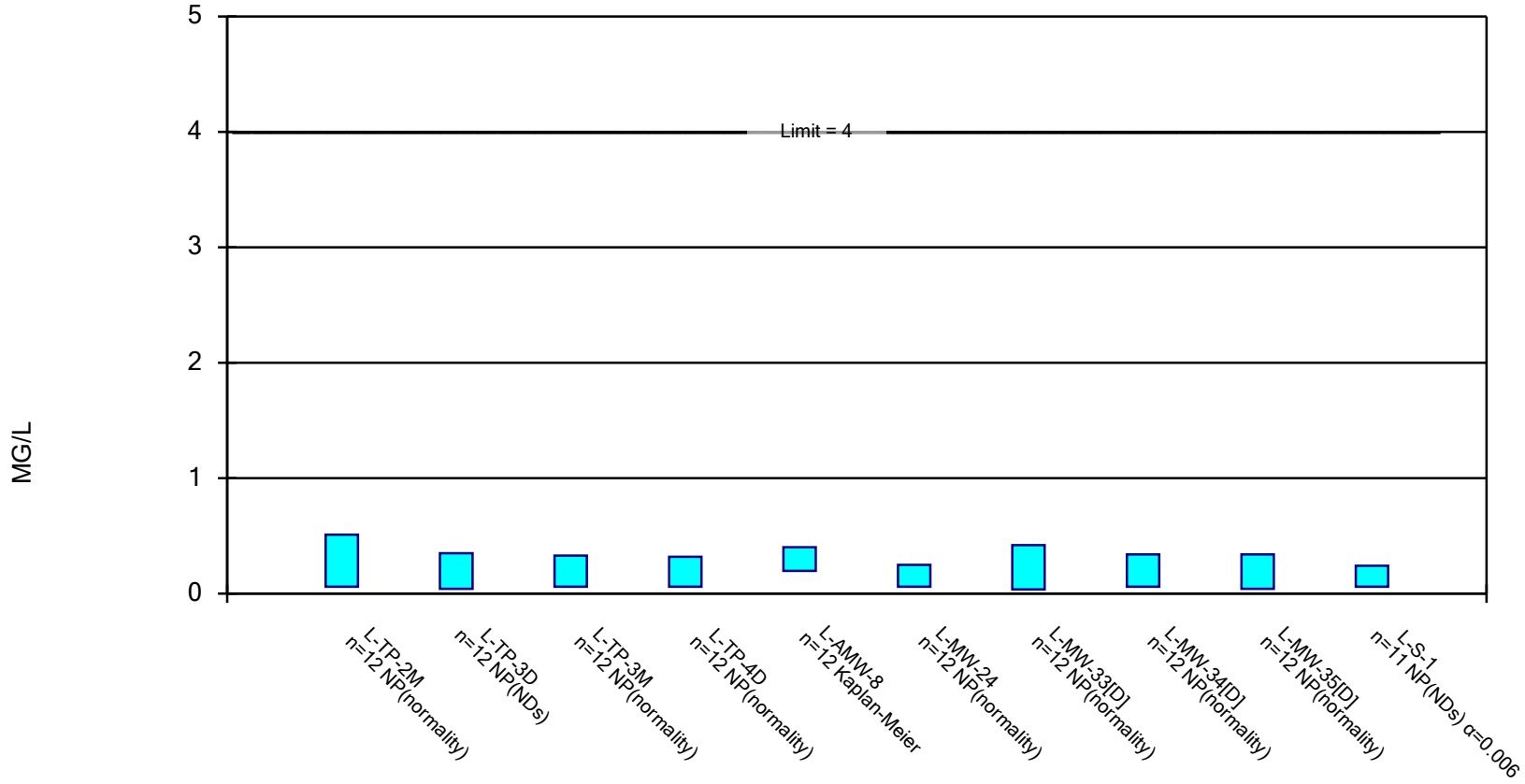


Constituent: FLUORIDE, TOTAL Analysis Run 8/14/2025 1:18 PM

Labadie E.C. Client: Ameren Data: LEC DATA

Parametric and Non-Parametric (NP) Confidence Interval, Corrective Action Mode

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



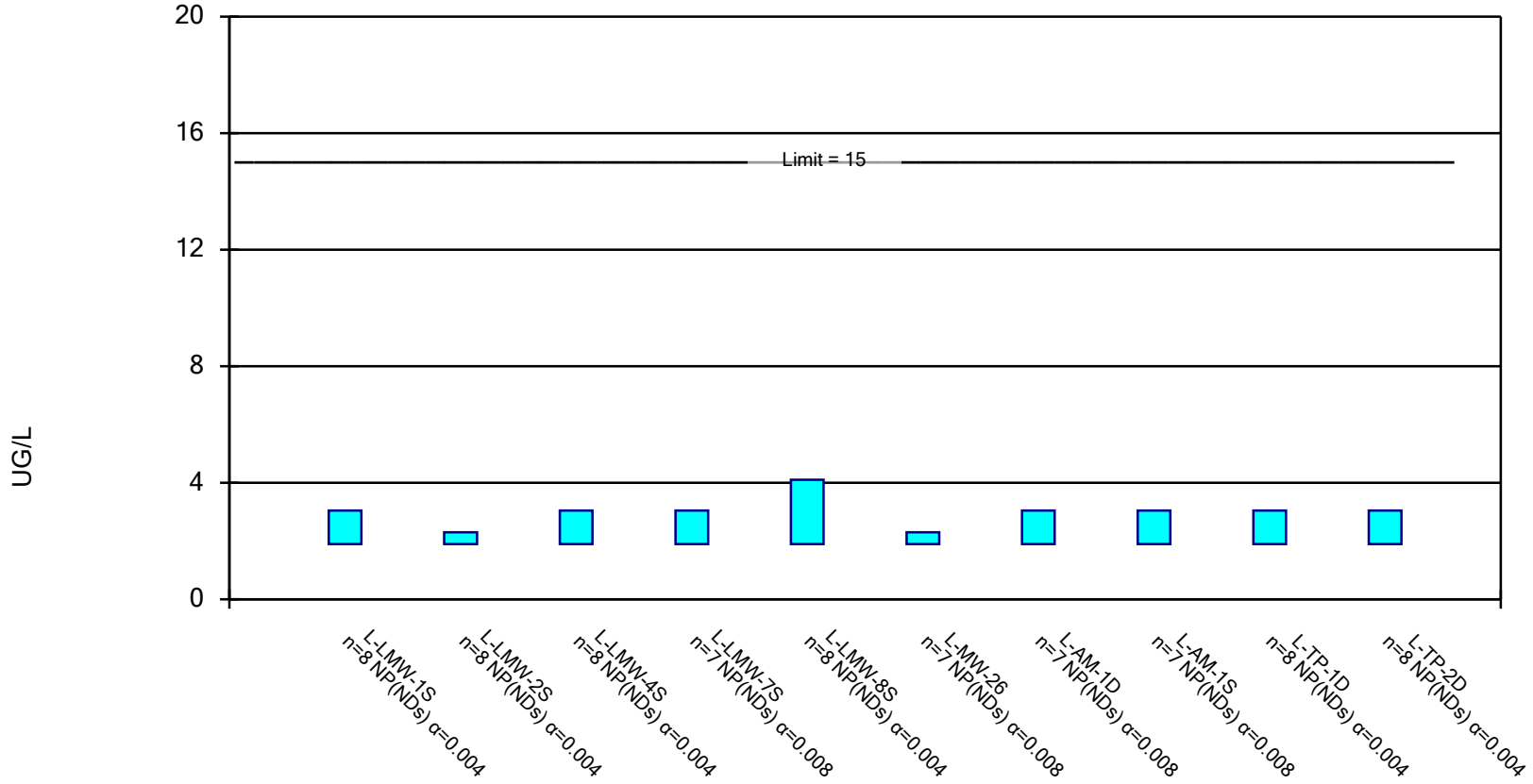
Constituent: FLUORIDE, TOTAL Analysis Run 8/14/2025 1:18 PM

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG

Non-Parametric Confidence Interval, Corrective Action Mode

Compliance Limit is not exceeded.

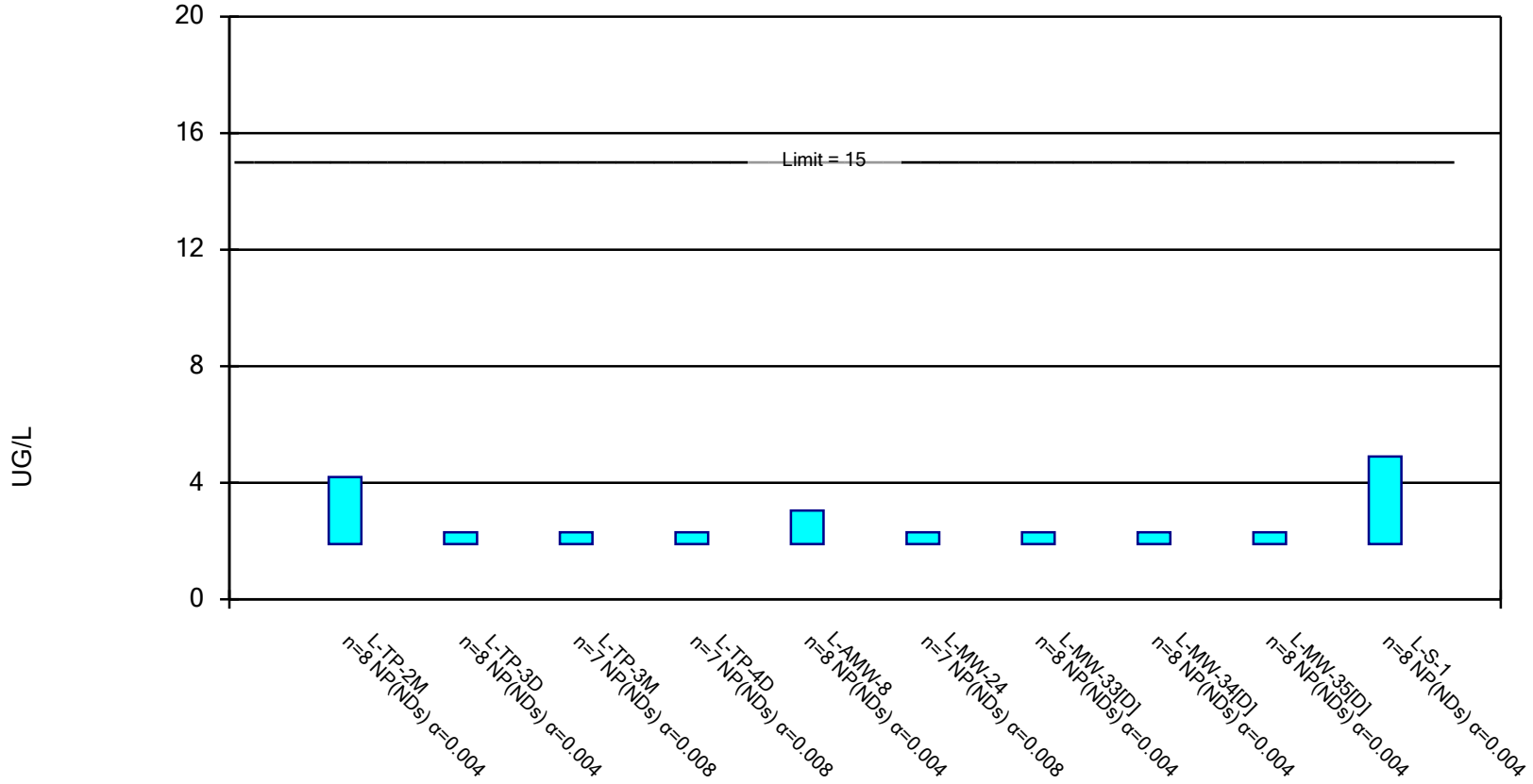


Constituent: LEAD, TOTAL Analysis Run 8/14/2025 1:18 PM

Labadie E.C. Client: Ameren Data: LEC DATA

Non-Parametric Confidence Interval, Corrective Action Mode

Compliance Limit is not exceeded.



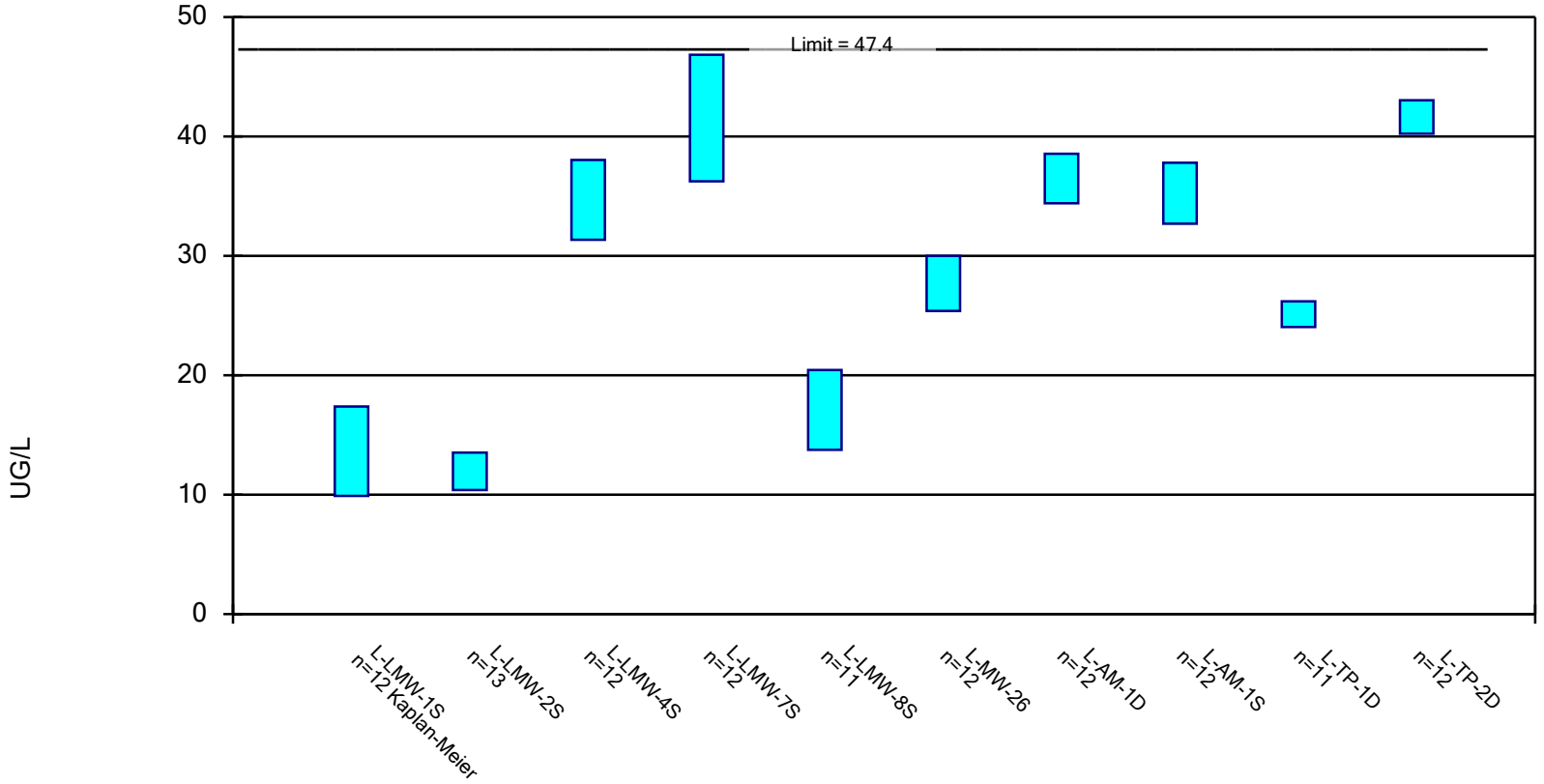
Constituent: LEAD, TOTAL Analysis Run 8/14/2025 1:18 PM

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG

Parametric Confidence Interval, Corrective Action Mode

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



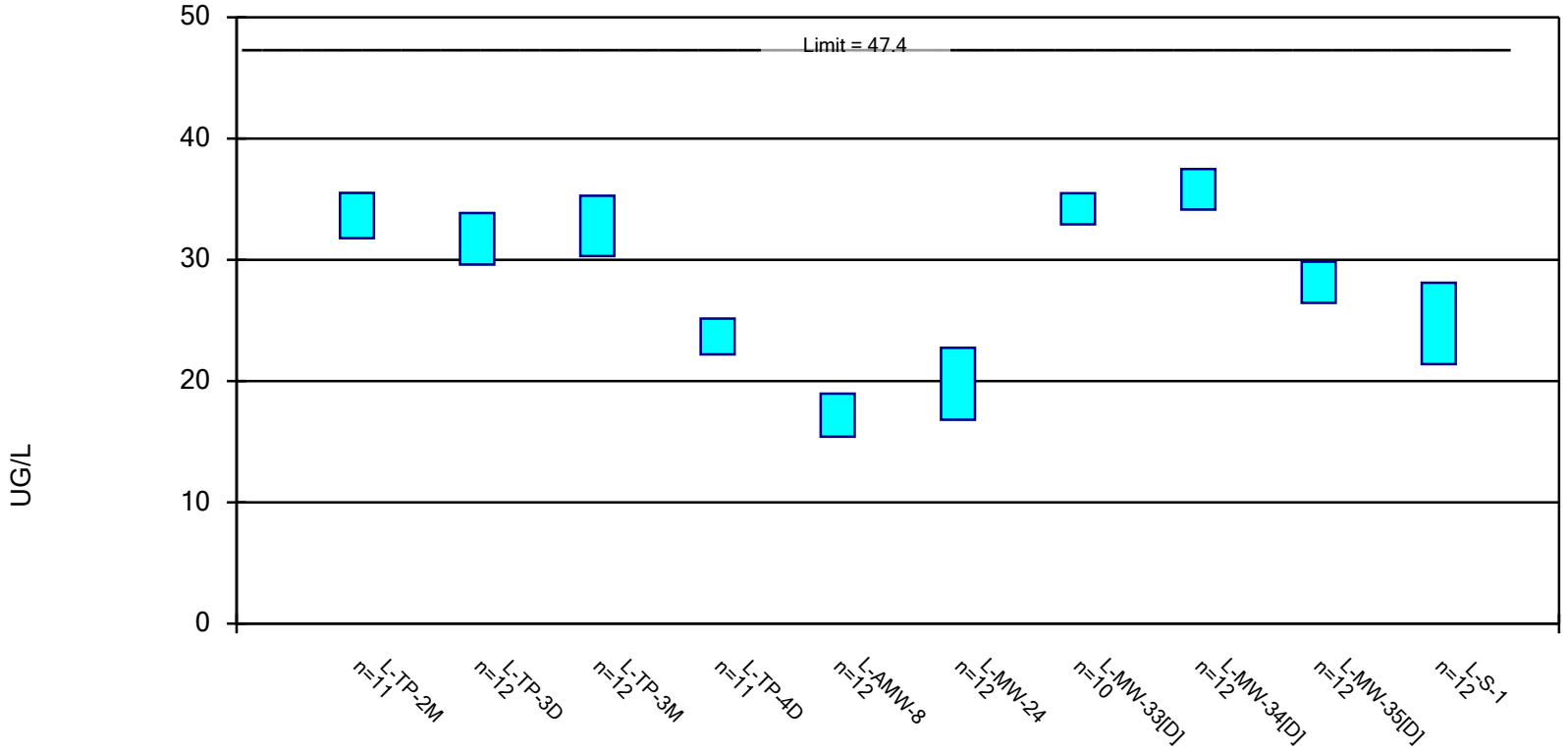
Constituent: LITHIUM, TOTAL Analysis Run 8/14/2025 1:18 PM

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG

Parametric Confidence Interval, Corrective Action Mode

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



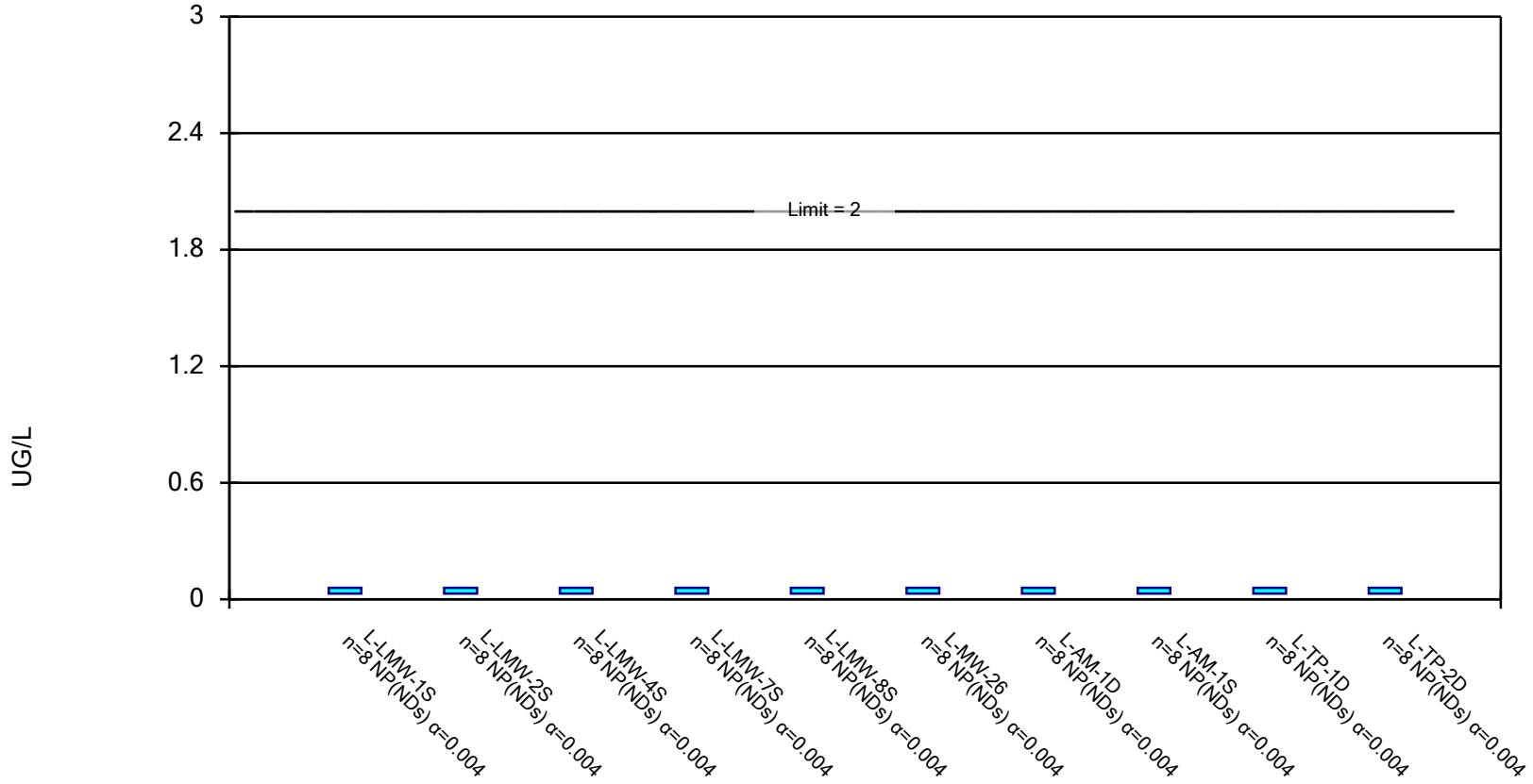
Constituent: LITHIUM, TOTAL Analysis Run 8/14/2025 1:18 PM

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG

Non-Parametric Confidence Interval, Corrective Action Mode

Compliance Limit is not exceeded.



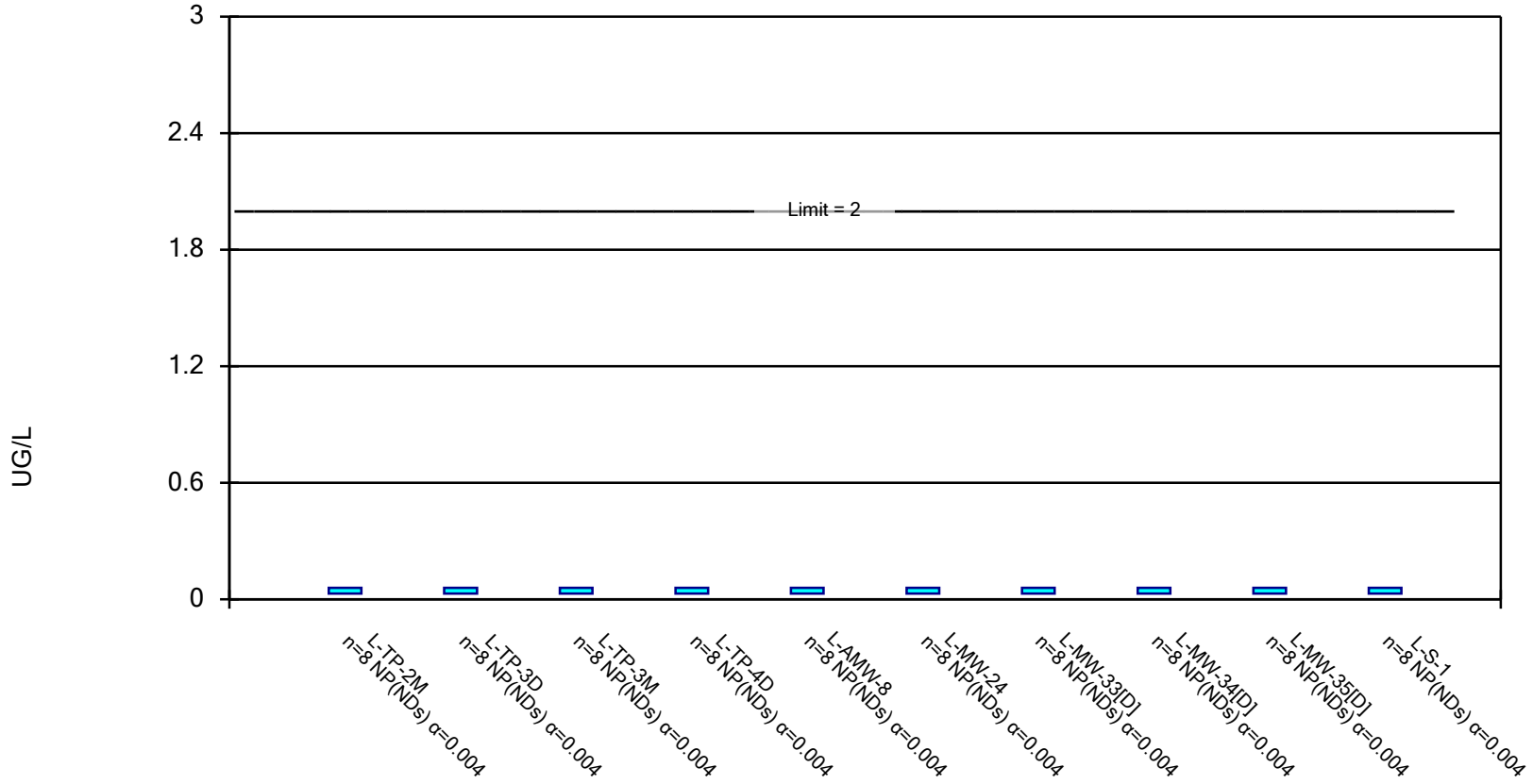
Constituent: MERCURY, TOTAL Analysis Run 8/14/2025 1:18 PM

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG

Non-Parametric Confidence Interval, Corrective Action Mode

Compliance Limit is not exceeded.



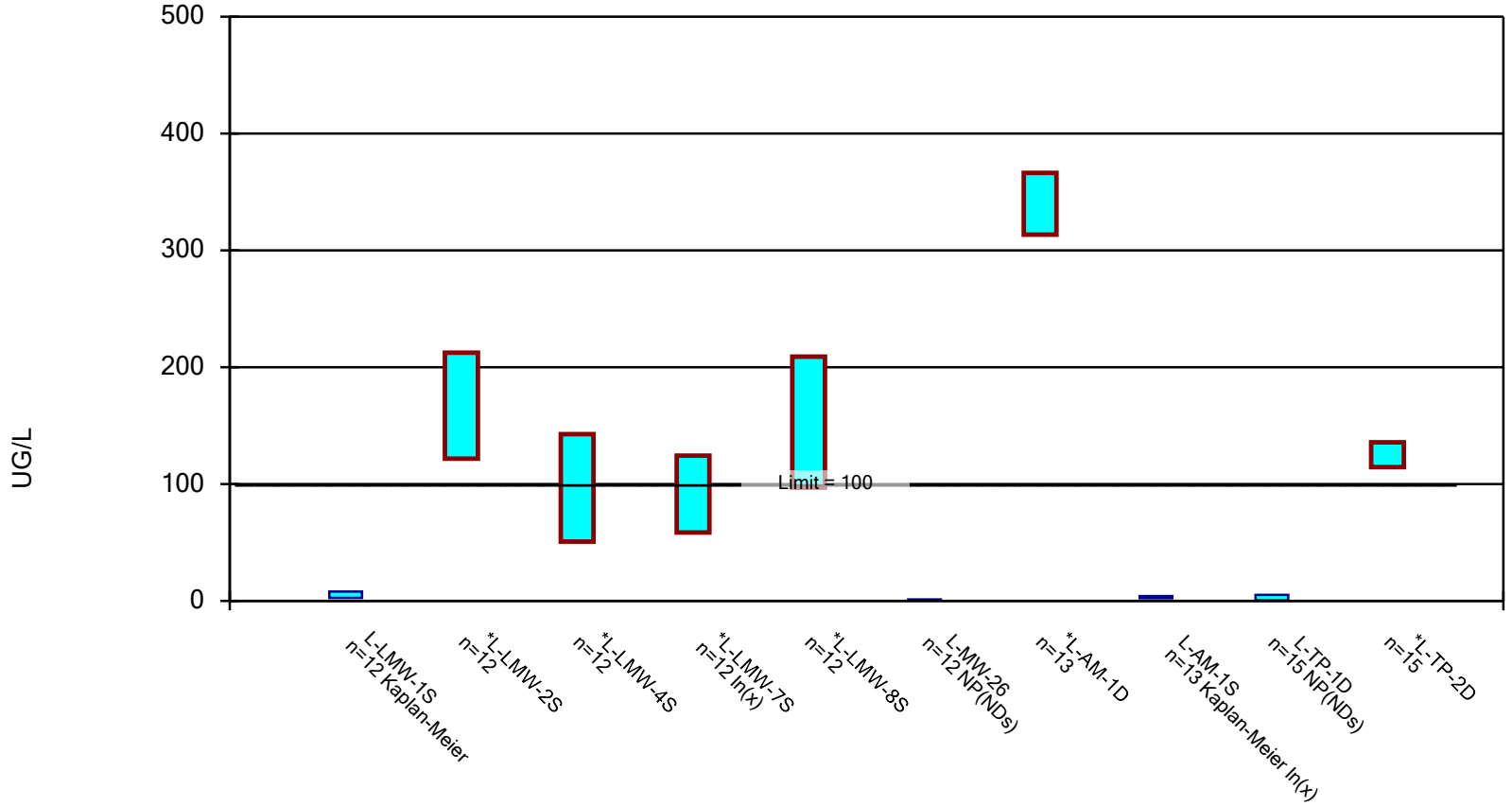
Constituent: MERCURY, TOTAL Analysis Run 8/14/2025 1:18 PM

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG

Parametric and Non-Parametric (NP) Confidence Interval, Corrective Action Mode

Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

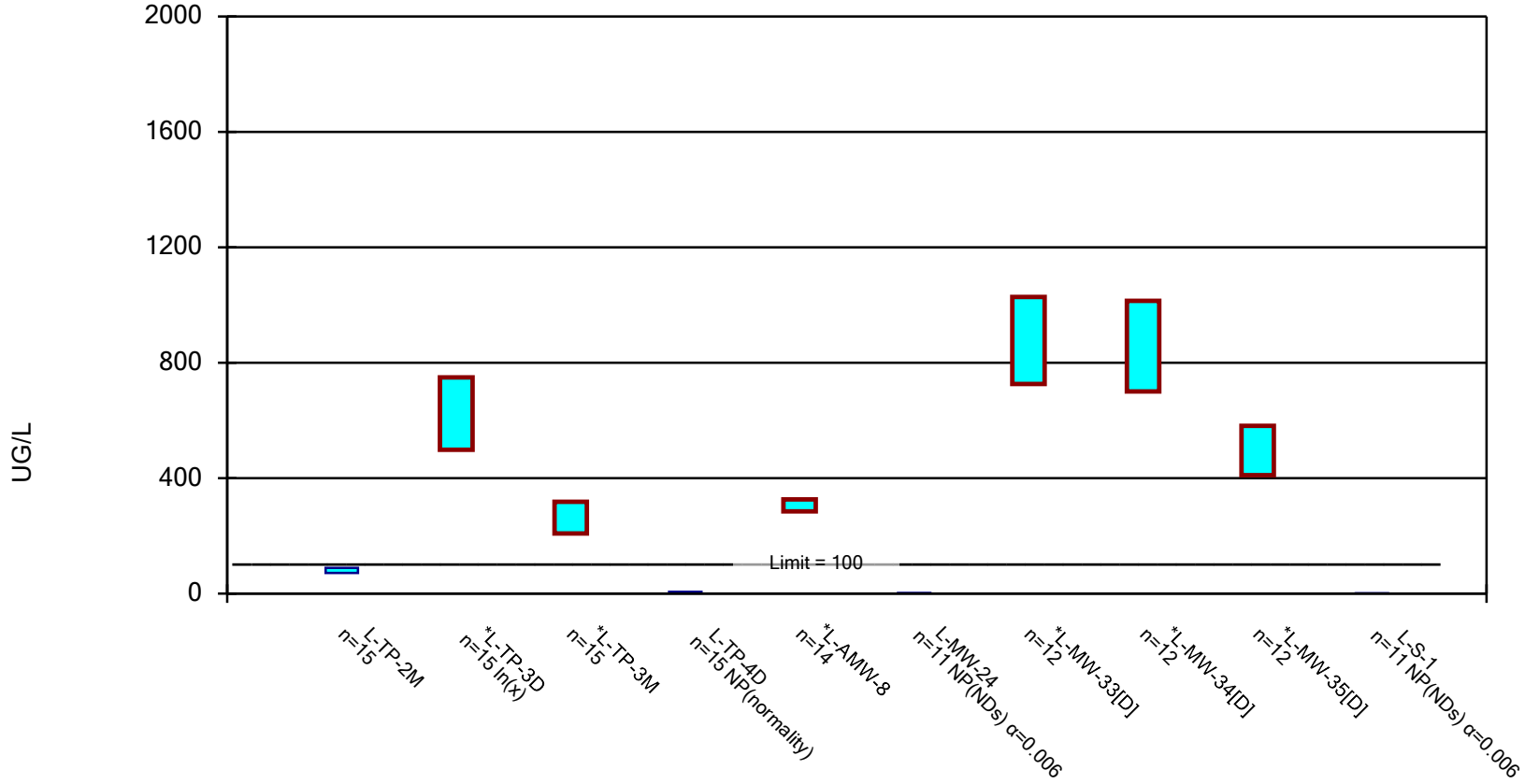


Constituent: MOLYBDENUM, TOTAL Analysis Run 8/14/2025 1:18 PM

Labadie E.C. Client: Ameren Data: LEC DATA

Parametric and Non-Parametric (NP) Confidence Interval, Corrective Action Mode

Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



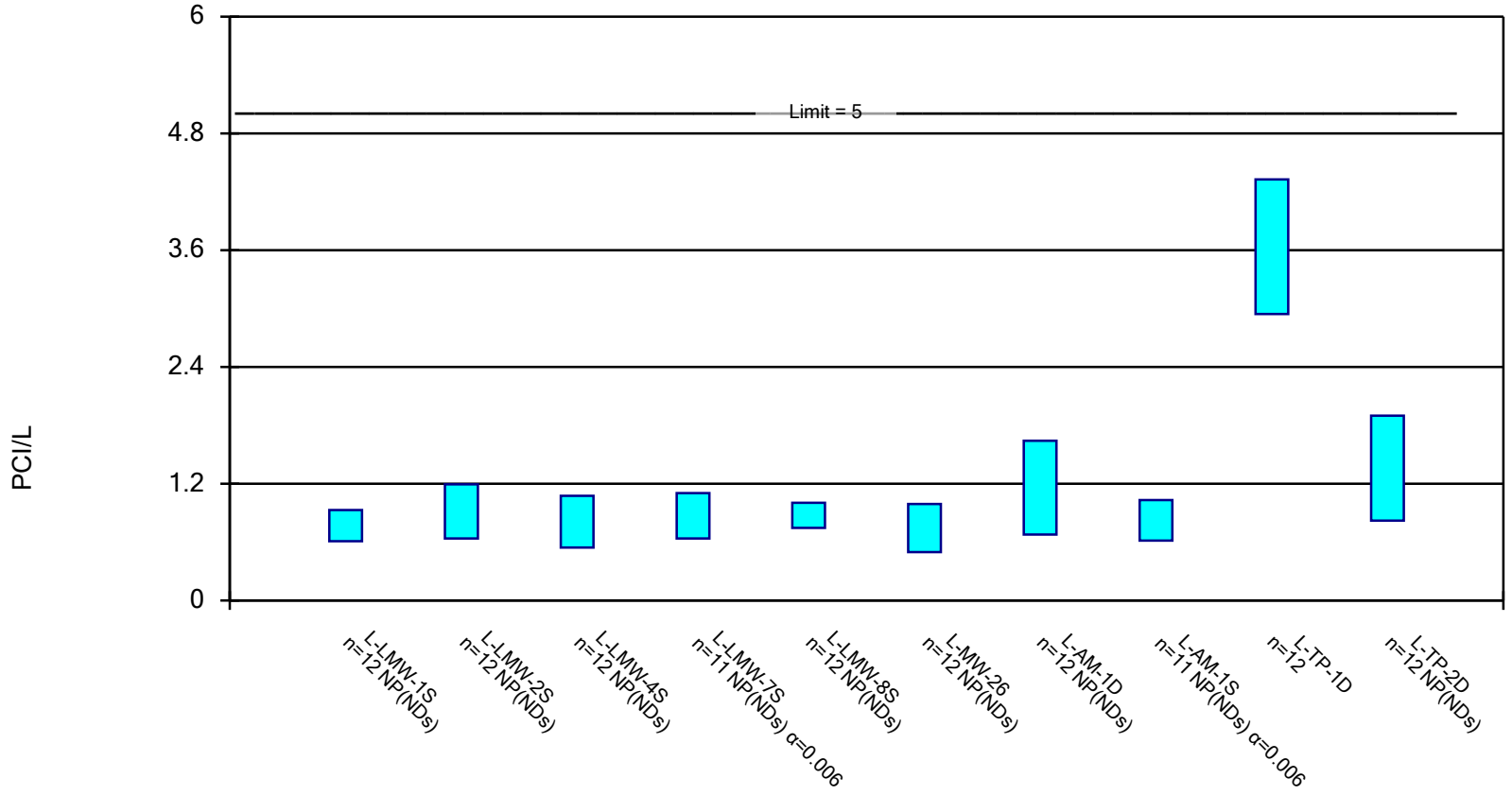
Constituent: MOLYBDENUM, TOTAL Analysis Run 8/14/2025 1:18 PM

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG

Parametric and Non-Parametric (NP) Confidence Interval, Corrective Action Mode

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



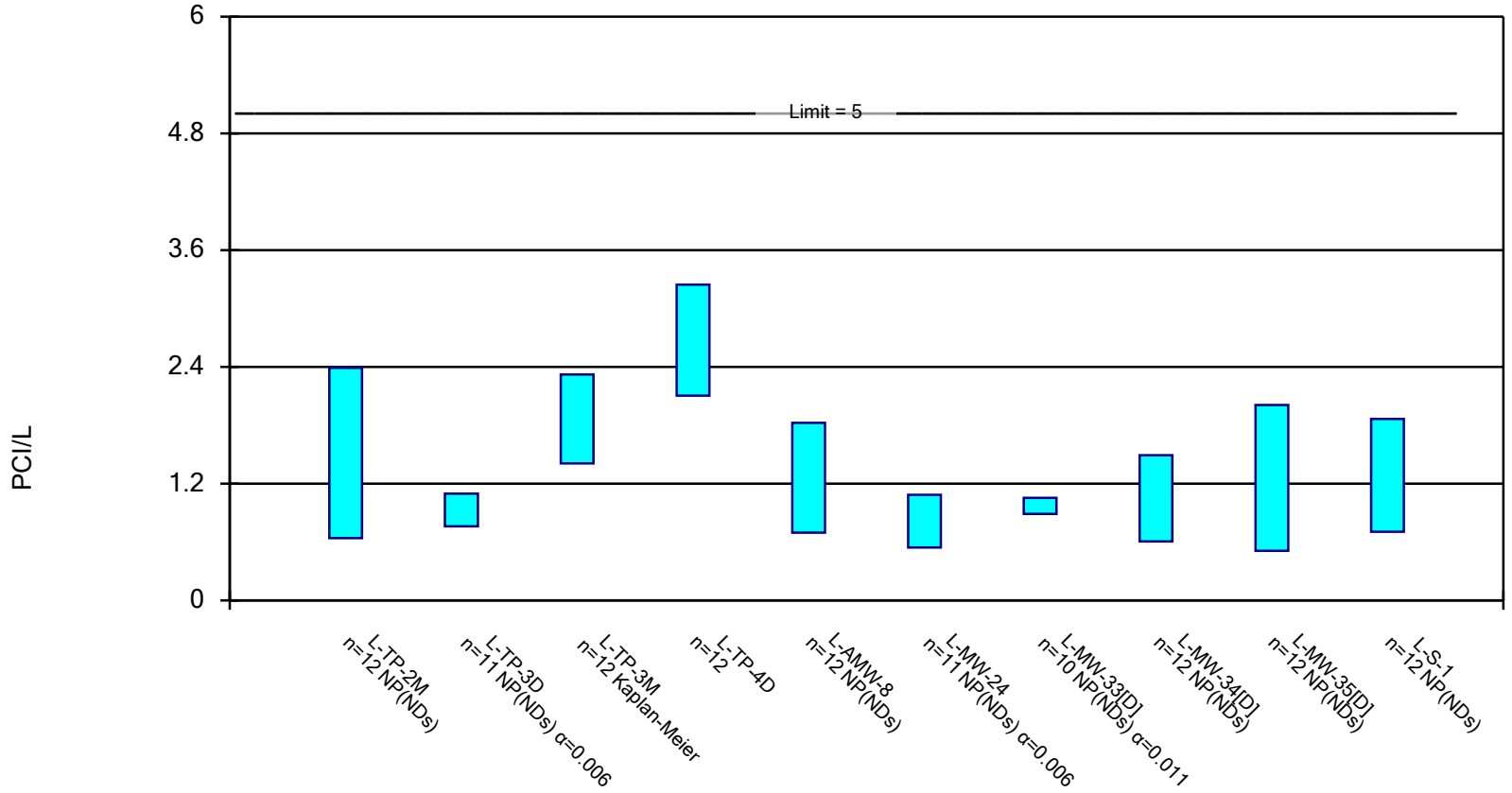
Constituent: Radium [226 + 228] Analysis Run 8/14/2025 1:18 PM

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG

Parametric and Non-Parametric (NP) Confidence Interval, Corrective Action Mode

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

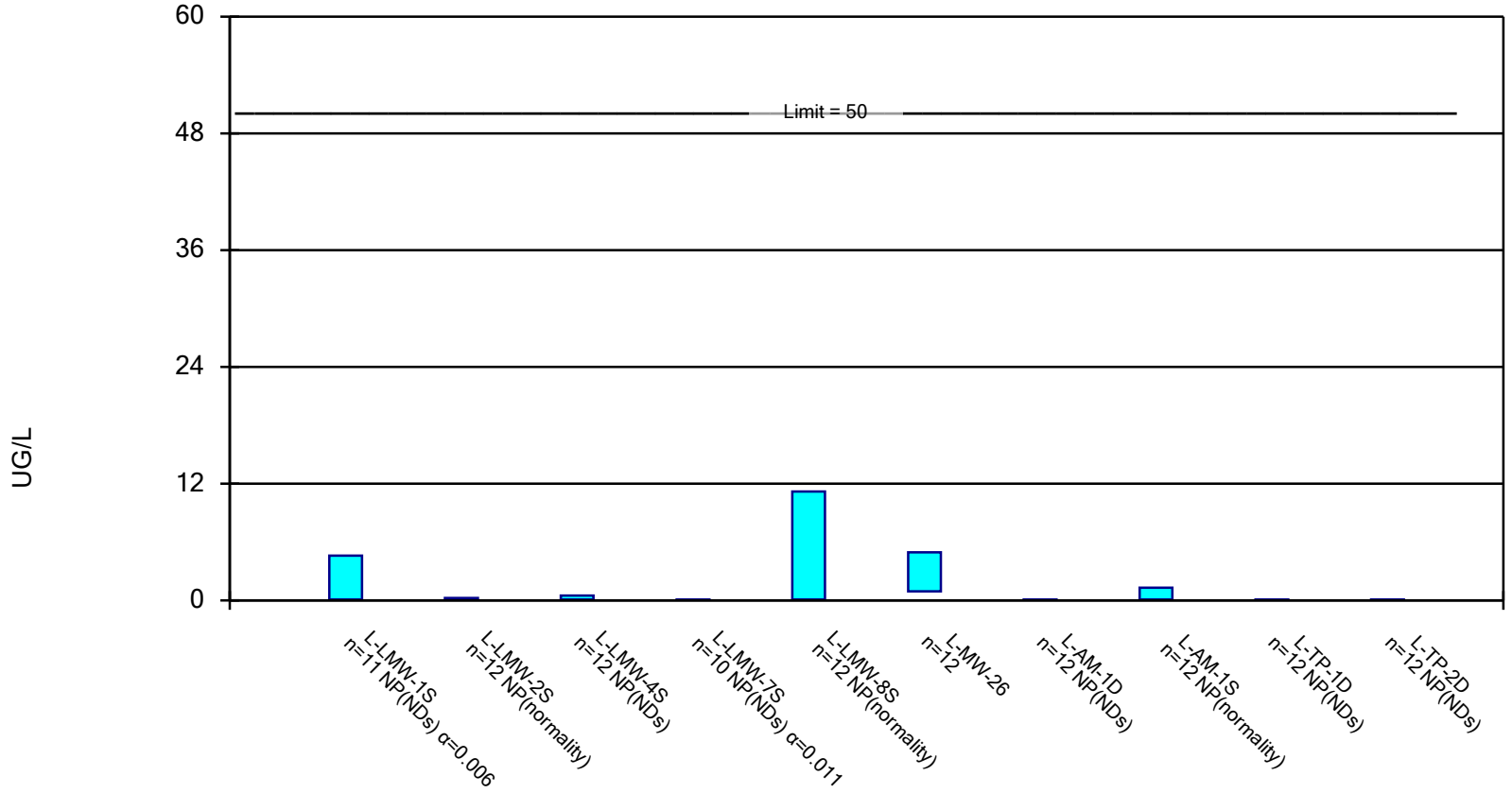


Constituent: Radium [226 + 228] Analysis Run 8/14/2025 1:18 PM

Labadie E.C. Client: Ameren Data: LEC DATA

Parametric and Non-Parametric (NP) Confidence Interval, Corrective Action Mode

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

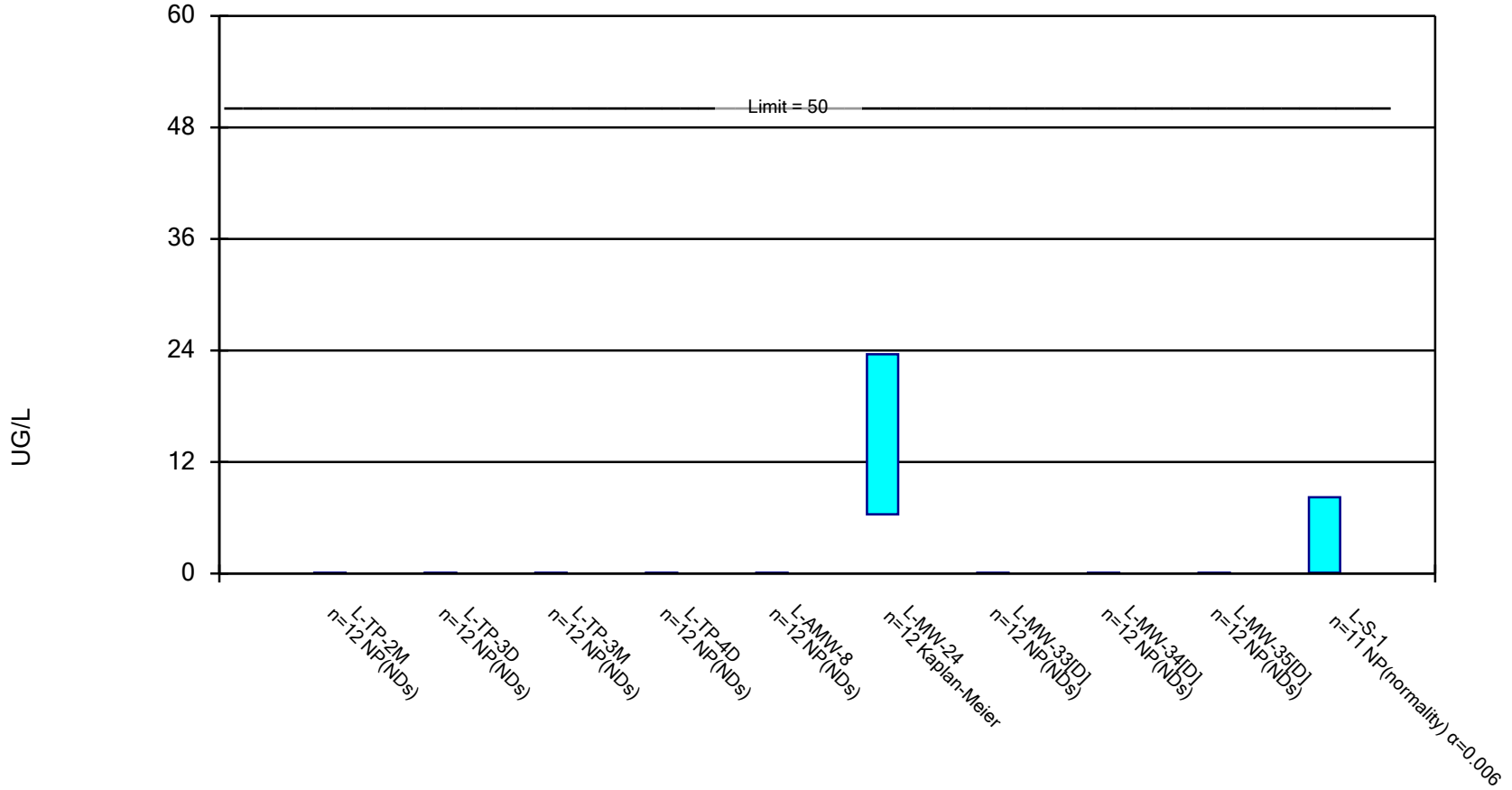


Constituent: SELENIUM, TOTAL Analysis Run 8/14/2025 1:18 PM

Labadie E.C. Client: Ameren Data: LEC DATA

Parametric and Non-Parametric (NP) Confidence Interval, Corrective Action Mode

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



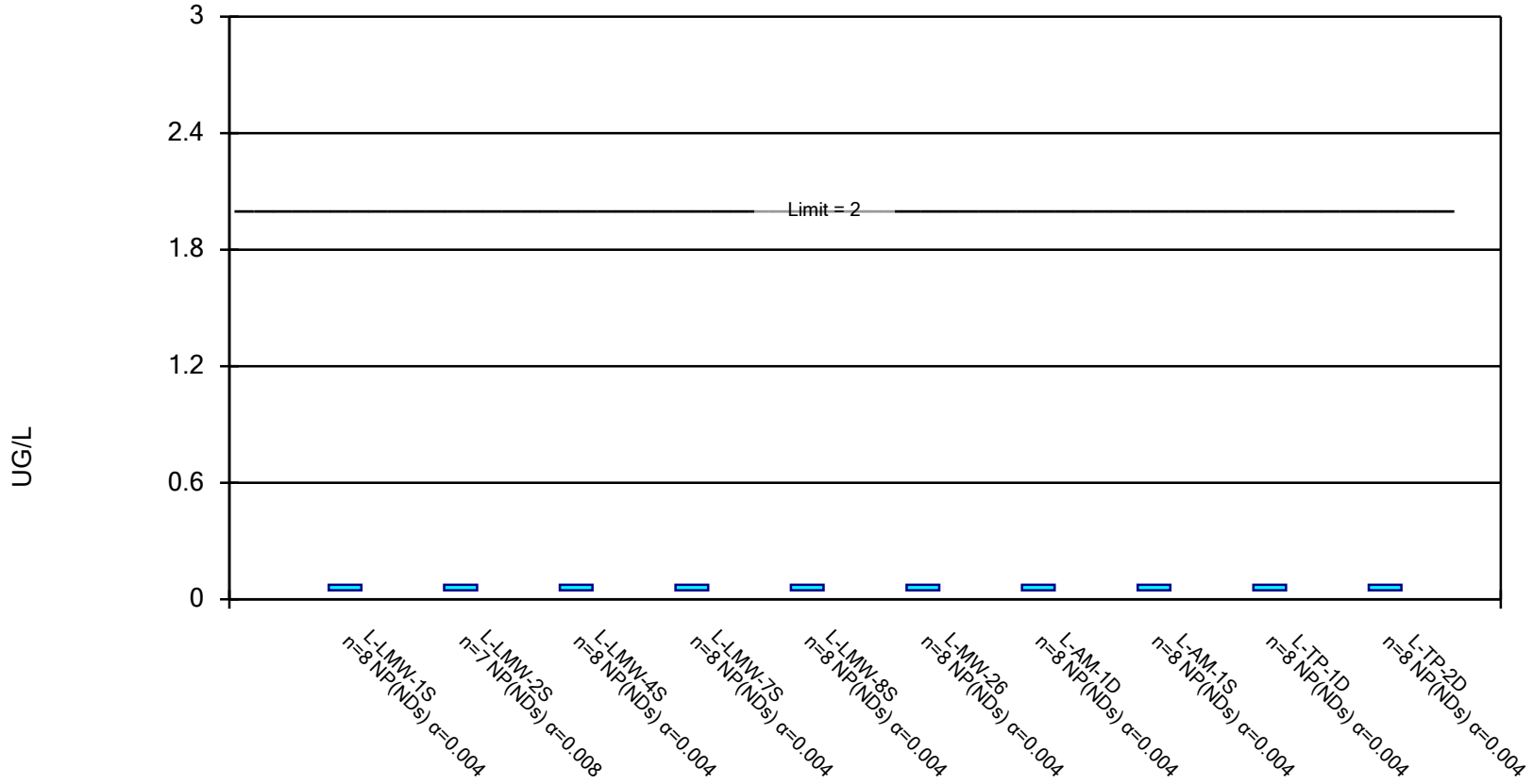
Constituent: SELENIUM, TOTAL Analysis Run 8/14/2025 1:18 PM

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG

Non-Parametric Confidence Interval, Corrective Action Mode

Compliance Limit is not exceeded.



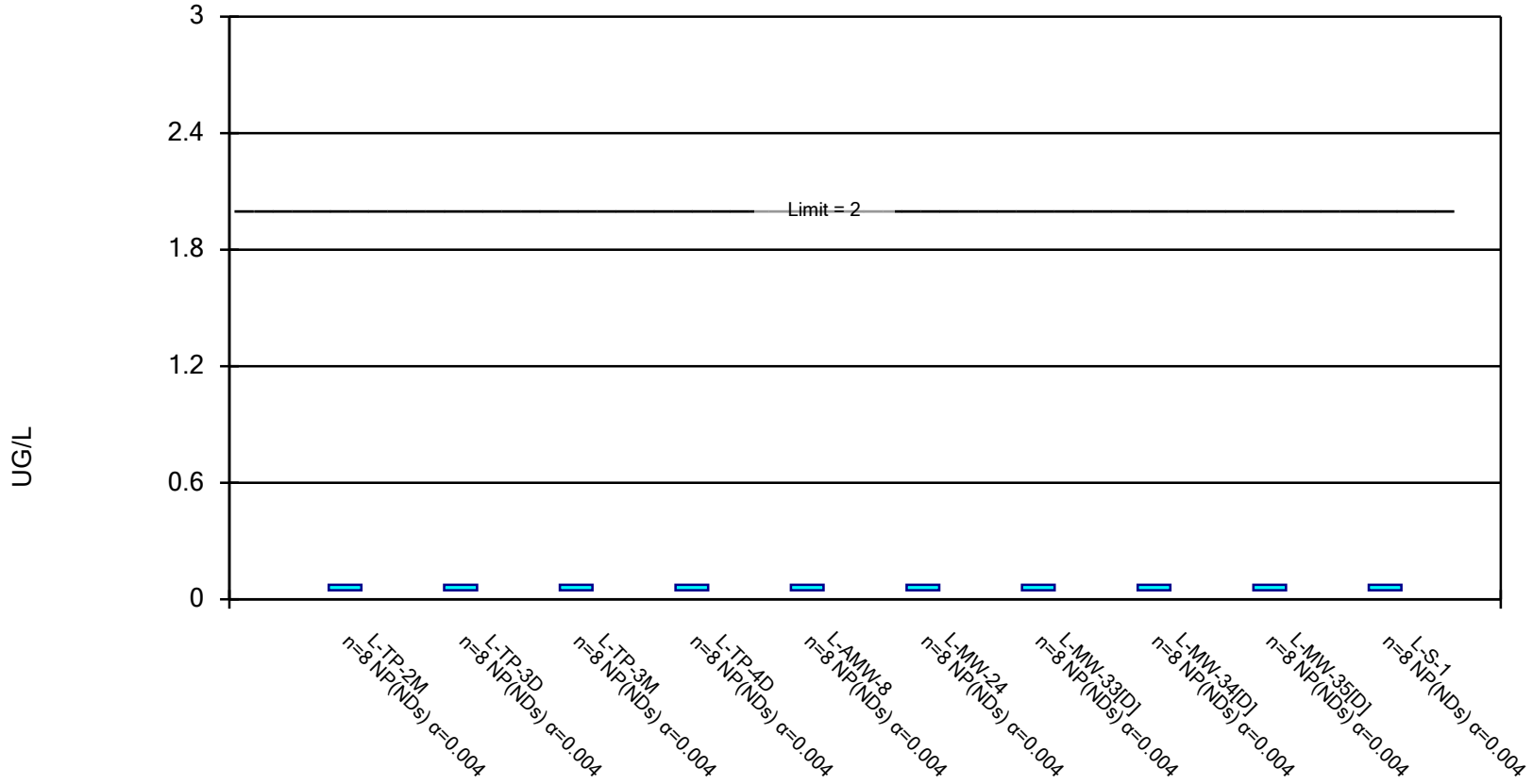
Constituent: THALLIUM, TOTAL Analysis Run 8/14/2025 1:18 PM

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG

Non-Parametric Confidence Interval, Corrective Action Mode

Compliance Limit is not exceeded.



Constituent: THALLIUM, TOTAL Analysis Run 8/14/2025 1:18 PM

Labadie E.C. Client: Ameren Data: LEC DATA

Confidence Interval

Labadie E.C. Client: Ameren Data: LEC DATA Printed 8/14/2025, 1:21 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
ANTIMONY, TOTAL (UG/L)	L-LMW-1S	0.06	0.0485	6	No	10	100	No	0.011	NP (NDs)
ANTIMONY, TOTAL (UG/L)	L-LMW-2S	0.11	0.05	6	No	10	70	No	0.011	NP (NDs)
ANTIMONY, TOTAL (UG/L)	L-LMW-4S	0.06	0.0485	6	No	10	100	No	0.011	NP (NDs)
ANTIMONY, TOTAL (UG/L)	L-LMW-7S	0.06	0.0485	6	No	10	100	No	0.011	NP (NDs)
ANTIMONY, TOTAL (UG/L)	L-LMW-8S	0.06	0.0485	6	No	10	100	No	0.011	NP (NDs)
ANTIMONY, TOTAL (UG/L)	L-MW-26	0.1396	0.09266	6	No	10	40	No	0.01	Param.
ANTIMONY, TOTAL (UG/L)	L-AM-1D	0.06	0.0485	6	No	10	100	No	0.011	NP (NDs)
ANTIMONY, TOTAL (UG/L)	L-AM-1S	0.06	0.0485	6	No	10	100	No	0.011	NP (NDs)
ANTIMONY, TOTAL (UG/L)	L-TP-1D	0.11	0.05	6	No	10	80	No	0.011	NP (NDs)
ANTIMONY, TOTAL (UG/L)	L-TP-2D	0.13	0.0485	6	No	10	80	No	0.011	NP (NDs)
ANTIMONY, TOTAL (UG/L)	L-TP-2M	0.06	0.0485	6	No	10	100	No	0.011	NP (NDs)
ANTIMONY, TOTAL (UG/L)	L-TP-3D	0.06	0.0485	6	No	10	100	No	0.011	NP (NDs)
ANTIMONY, TOTAL (UG/L)	L-TP-3M	0.06	0.0485	6	No	10	100	No	0.011	NP (NDs)
ANTIMONY, TOTAL (UG/L)	L-TP-4D	0.18	0.0485	6	No	9	88.89	No	0.002	NP (NDs)
ANTIMONY, TOTAL (UG/L)	L-AMW-8	0.06	0.0485	6	No	9	100	No	0.002	NP (NDs)
ANTIMONY, TOTAL (UG/L)	L-MW-24	0.1869	0.1211	6	No	10	0	No	0.01	Param.
ANTIMONY, TOTAL (UG/L)	L-MW-33[D]	0.06	0.0485	6	No	10	100	No	0.011	NP (NDs)
ANTIMONY, TOTAL (UG/L)	L-MW-34[D]	0.06	0.0485	6	No	10	100	No	0.011	NP (NDs)
ANTIMONY, TOTAL (UG/L)	L-MW-35[D]	0.06	0.0485	6	No	10	100	No	0.011	NP (NDs)
ANTIMONY, TOTAL (UG/L)	L-S-1	0.15	0.05	6	No	10	50	No	0.011	NP (normality)
ARSENIC, TOTAL (UG/L)	L-LMW-1S	10.36	3.078	44.2	No	12	0	No	0.01	Param.
ARSENIC, TOTAL (UG/L)	**L-LMW-2S**	**46**	**39**	**44.2**	**Yes**	**12**	**0**	**No**	**0.01**	**NP (normality)**
ARSENIC, TOTAL (UG/L)	L-LMW-4S	25.81	15.93	44.2	No	12	0	No	0.01	Param.
ARSENIC, TOTAL (UG/L)	L-LMW-7S	16.29	9.98	44.2	No	12	0	No	0.01	Param.
ARSENIC, TOTAL (UG/L)	L-LMW-8S	15.39	5.643	44.2	No	12	0	No	0.01	Param.
ARSENIC, TOTAL (UG/L)	L-MW-26	0.5244	0.4556	44.2	No	12	8.333	No	0.01	Param.
ARSENIC, TOTAL (UG/L)	L-AM-1D	3.665	2.885	44.2	No	12	0	No	0.01	Param.
ARSENIC, TOTAL (UG/L)	L-AM-1S	7.389	2.911	44.2	No	12	0	No	0.01	Param.
ARSENIC, TOTAL (UG/L)	L-TP-1D	1.3	1.062	44.2	No	12	0	No	0.01	Param.
ARSENIC, TOTAL (UG/L)	L-TP-2D	11.69	11.02	44.2	No	11	0	No	0.01	Param.
ARSENIC, TOTAL (UG/L)	L-TP-2M	0.6687	0.4963	44.2	No	12	0	No	0.01	Param.
ARSENIC, TOTAL (UG/L)	L-TP-3D	8.18	6.67	44.2	No	12	0	No	0.01	Param.
ARSENIC, TOTAL (UG/L)	L-TP-3M	0.506	0.343	44.2	No	12	0	ln(x)	0.01	Param.
ARSENIC, TOTAL (UG/L)	L-TP-4D	8.042	7.391	44.2	No	12	0	No	0.01	Param.
ARSENIC, TOTAL (UG/L)	L-AMW-8	0.3877	0.199	44.2	No	12	0	No	0.01	Param.
ARSENIC, TOTAL (UG/L)	L-MW-24	0.7212	0.5172	44.2	No	12	8.333	No	0.01	Param.
ARSENIC, TOTAL (UG/L)	L-MW-33[D]	3.4	1.2	44.2	No	12	0	No	0.01	NP (normality)
ARSENIC, TOTAL (UG/L)	L-MW-34[D]	3.691	3.375	44.2	No	12	0	No	0.01	Param.
ARSENIC, TOTAL (UG/L)	L-MW-35[D]	0.2056	0.1453	44.2	No	11	0	No	0.01	Param.
ARSENIC, TOTAL (UG/L)	L-S-1	0.6566	0.5118	44.2	No	12	0	No	0.01	Param.
BARIUM, TOTAL (UG/L)	L-LMW-1S	118.3	58.14	2000	No	11	9.091	No	0.01	Param.
BARIUM, TOTAL (UG/L)	L-LMW-2S	48.2	36.9	2000	No	12	0	No	0.01	Param.
BARIUM, TOTAL (UG/L)	L-LMW-4S	166.2	142.4	2000	No	12	0	No	0.01	Param.
BARIUM, TOTAL (UG/L)	L-LMW-7S	293	201.3	2000	No	12	0	No	0.01	Param.
BARIUM, TOTAL (UG/L)	L-LMW-8S	154.5	106.6	2000	No	12	0	No	0.01	Param.
BARIUM, TOTAL (UG/L)	L-MW-26	214.9	186.9	2000	No	12	0	No	0.01	Param.
BARIUM, TOTAL (UG/L)	L-AM-1D	73.42	66.49	2000	No	12	0	No	0.01	Param.
BARIUM, TOTAL (units)	L-AM-1S	629.2	557.3	2000	No	12	0	No	0.01	Param.
BARIUM, TOTAL (UG/L)	L-TP-1D	1475	1405	2000	No	12	0	No	0.01	Param.
BARIUM, TOTAL (UG/L)	L-TP-2D	119.3	114.7	2000	No	11	0	No	0.01	Param.

Confidence Interval

Labadie E.C. Client: Ameren Data: LEC DATA Printed 8/14/2025, 1:21 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
BARIUM, TOTAL (UG/L)	L-TP-2M	134.5	118.9	2000	No	10	0	No	0.01	Param.
BARIUM, TOTAL (UG/L)	L-TP-3D	74.84	67.52	2000	No	12	0	No	0.01	Param.
BARIUM, TOTAL (UG/L)	L-TP-3M	267.8	228.1	2000	No	12	0	No	0.01	Param.
BARIUM, TOTAL (UG/L)	L-TP-4D	438	394.2	2000	No	12	0	No	0.01	Param.
BARIUM, TOTAL (UG/L)	L-AMW-8	120.2	105.6	2000	No	11	0	No	0.01	Param.
BARIUM, TOTAL (UG/L)	L-MW-24	208.2	152	2000	No	12	0	No	0.01	Param.
BARIUM, TOTAL (UG/L)	L-MW-33[D]	126.6	95.59	2000	No	12	0	No	0.01	Param.
BARIUM, TOTAL (UG/L)	L-MW-34[D]	107.6	87.74	2000	No	12	0	No	0.01	Param.
BARIUM, TOTAL (UG/L)	L-MW-35[D]	62.29	45.76	2000	No	12	0	No	0.01	Param.
BARIUM, TOTAL (UG/L)	L-S-1	369	354.7	2000	No	12	0	No	0.01	Param.
BERYLLIUM, TOTAL (UG/L)	L-LMW-1S	0.245	0.06	4	No	8	100	No	0.004	NP (NDs)
BERYLLIUM, TOTAL (UG/L)	L-LMW-2S	0.245	0.06	4	No	8	100	No	0.004	NP (NDs)
BERYLLIUM, TOTAL (UG/L)	L-LMW-4S	0.245	0.06	4	No	8	100	No	0.004	NP (NDs)
BERYLLIUM, TOTAL (UG/L)	L-LMW-7S	0.245	0.06	4	No	8	100	No	0.004	NP (NDs)
BERYLLIUM, TOTAL (UG/L)	L-LMW-8S	0.245	0.06	4	No	7	100	No	0.008	NP (NDs)
BERYLLIUM, TOTAL (UG/L)	L-MW-26	0.5	0.06	4	No	8	100	No	0.004	NP (NDs)
BERYLLIUM, TOTAL (UG/L)	L-AM-1D	0.245	0.06	4	No	8	100	No	0.004	NP (NDs)
BERYLLIUM, TOTAL (UG/L)	L-AM-1S	0.245	0.06	4	No	8	87.5	No	0.004	NP (NDs)
BERYLLIUM, TOTAL (UG/L)	L-TP-1D	0.245	0.06	4	No	8	75	No	0.004	NP (NDs)
BERYLLIUM, TOTAL (UG/L)	L-TP-2D	0.245	0.06	4	No	8	87.5	No	0.004	NP (NDs)
BERYLLIUM, TOTAL (UG/L)	L-TP-2M	0.33	0.06	4	No	8	62.5	No	0.004	NP (NDs)
BERYLLIUM, TOTAL (UG/L)	L-TP-3D	0.245	0.06	4	No	8	100	No	0.004	NP (NDs)
BERYLLIUM, TOTAL (UG/L)	L-TP-3M	0.245	0.06	4	No	8	87.5	No	0.004	NP (NDs)
BERYLLIUM, TOTAL (UG/L)	L-TP-4D	0.245	0.06	4	No	8	100	No	0.004	NP (NDs)
BERYLLIUM, TOTAL (UG/L)	L-AMW-8	0.245	0.06	4	No	8	100	No	0.004	NP (NDs)
BERYLLIUM, TOTAL (UG/L)	L-MW-24	0.245	0.06	4	No	8	100	No	0.004	NP (NDs)
BERYLLIUM, TOTAL (UG/L)	L-MW-33[D]	0.245	0.06	4	No	8	100	No	0.004	NP (NDs)
BERYLLIUM, TOTAL (UG/L)	L-MW-34[D]	0.5	0.06	4	No	8	100	No	0.004	NP (NDs)
BERYLLIUM, TOTAL (UG/L)	L-MW-35[D]	0.245	0.06	4	No	8	87.5	No	0.004	NP (NDs)
BERYLLIUM, TOTAL (UG/L)	L-S-1	0.245	0.06	4	No	8	100	No	0.004	NP (NDs)
CADMIUM, TOTAL (UG/L)	L-LMW-1S	0.069	0.025	5	No	8	62.5	No	0.004	NP (NDs)
CADMIUM, TOTAL (UG/L)	L-LMW-2S	0.25	0.025	5	No	8	75	No	0.004	NP (NDs)
CADMIUM, TOTAL (UG/L)	L-LMW-4S	0.0778	0.05258	5	No	8	25	No	0.01	Param.
CADMIUM, TOTAL (UG/L)	L-LMW-7S	0.08407	0.05695	5	No	8	25	ln(x)	0.01	Param.
CADMIUM, TOTAL (UG/L)	L-LMW-8S	0.1264	0.04616	5	No	8	37.5	No	0.01	Param.
CADMIUM, TOTAL (UG/L)	L-MW-26	0.29	0.025	5	No	8	62.5	No	0.004	NP (NDs)
CADMIUM, TOTAL (UG/L)	L-AM-1D	0.1393	0.07098	5	No	8	25	No	0.01	Param.
CADMIUM, TOTAL (UG/L)	L-AM-1S	0.1183	0.04879	5	No	8	50	No	0.01	Param.
CADMIUM, TOTAL (UG/L)	L-TP-1D	0.031	0.025	5	No	8	100	No	0.004	NP (NDs)
CADMIUM, TOTAL (UG/L)	L-TP-2D	0.06	0.025	5	No	8	62.5	No	0.004	NP (NDs)
CADMIUM, TOTAL (UG/L)	L-TP-2M	0.031	0.025	5	No	8	100	No	0.004	NP (NDs)
CADMIUM, TOTAL (UG/L)	L-TP-3D	0.2367	0.1327	5	No	8	0	ln(x)	0.01	Param.
CADMIUM, TOTAL (UG/L)	L-TP-3M	0.1272	0.06876	5	No	8	0	No	0.01	Param.
CADMIUM, TOTAL (UG/L)	L-TP-4D	0.031	0.025	5	No	8	100	No	0.004	NP (NDs)
CADMIUM, TOTAL (UG/L)	L-AMW-8	0.1442	0.06707	5	No	8	12.5	No	0.01	Param.
CADMIUM, TOTAL (UG/L)	L-MW-24	0.1	0.025	5	No	8	75	No	0.004	NP (NDs)
CADMIUM, TOTAL (UG/L)	L-MW-33[D]	0.39	0.23	5	No	8	0	No	0.004	NP (normality)
CADMIUM, TOTAL (UG/L)	L-MW-34[D]	0.3107	0.2093	5	No	8	0	No	0.01	Param.
CADMIUM, TOTAL (UG/L)	L-MW-35[D]	0.2234	0.1241	5	No	8	12.5	No	0.01	Param.
CADMIUM, TOTAL (UG/L)	L-S-1	0.1196	0.04816	5	No	8	50	No	0.01	Param.

Confidence Interval

Labadie E.C. Client: Ameren Data: LEC DATA Printed 8/14/2025, 1:21 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
CHROMIUM, TOTAL (UG/L)	L-LMW-1S	0.5255	0.2078	100	No	11	45.45	ln(x)	0.01	Param.
CHROMIUM, TOTAL (UG/L)	L-LMW-2S	0.5	0.11	100	No	10	60	No	0.011	NP (NDs)
CHROMIUM, TOTAL (UG/L)	L-LMW-4S	0.41	0.11	100	No	11	36.36	No	0.006	NP (normality)
CHROMIUM, TOTAL (UG/L)	L-LMW-7S	0.5	0.11	100	No	11	54.55	No	0.006	NP (NDs)
CHROMIUM, TOTAL (UG/L)	L-LMW-8S	0.5	0.11	100	No	11	81.82	No	0.006	NP (NDs)
CHROMIUM, TOTAL (UG/L)	L-MW-26	0.53	0.11	100	No	11	63.64	No	0.006	NP (NDs)
CHROMIUM, TOTAL (UG/L)	L-AM-1D	0.6896	0.2508	100	No	11	18.18	ln(x)	0.01	Param.
CHROMIUM, TOTAL (UG/L)	L-AM-1S	0.4273	0.2683	100	No	11	36.36	No	0.01	Param.
CHROMIUM, TOTAL (UG/L)	L-TP-1D	0.4585	0.2125	100	No	11	36.36	No	0.01	Param.
CHROMIUM, TOTAL (UG/L)	L-TP-2D	0.4179	0.2204	100	No	11	45.45	ln(x)	0.01	Param.
CHROMIUM, TOTAL (UG/L)	L-TP-2M	0.4307	0.221	100	No	11	36.36	No	0.01	Param.
CHROMIUM, TOTAL (UG/L)	L-TP-3D	0.3703	0.2317	100	No	11	45.45	No	0.01	Param.
CHROMIUM, TOTAL (UG/L)	L-TP-3M	0.3544	0.2361	100	No	11	45.45	No	0.01	Param.
CHROMIUM, TOTAL (UG/L)	L-TP-4D	0.47	0.11	100	No	11	54.55	No	0.006	NP (NDs)
CHROMIUM, TOTAL (UG/L)	L-AMW-8	0.7028	0.2643	100	No	11	36.36	ln(x)	0.01	Param.
CHROMIUM, TOTAL (UG/L)	L-MW-24	0.5	0.11	100	No	11	45.45	No	0.006	NP (normality)
CHROMIUM, TOTAL (UG/L)	L-MW-33[D]	0.87	0.11	100	No	10	70	No	0.011	NP (NDs)
CHROMIUM, TOTAL (UG/L)	L-MW-34[D]	0.6747	0.2336	100	No	11	45.45	ln(x)	0.01	Param.
CHROMIUM, TOTAL (UG/L)	L-MW-35[D]	1.4	0.11	100	No	11	54.55	No	0.006	NP (NDs)
CHROMIUM, TOTAL (UG/L)	L-S-1	0.3732	0.2443	100	No	10	40	No	0.01	Param.
COBALT, TOTAL (UG/L)	L-LMW-1S	2.5	0.475	6	No	9	77.78	No	0.002	NP (NDs)
COBALT, TOTAL (UG/L)	L-LMW-2S	0.75	0.39	6	No	9	100	No	0.002	NP (NDs)
COBALT, TOTAL (UG/L)	L-LMW-4S	2.424	0.8924	6	No	9	33.33	No	0.01	Param.
COBALT, TOTAL (UG/L)	L-LMW-7S	4.5	0.6	6	No	9	11.11	No	0.002	NP (normality)
COBALT, TOTAL (UG/L)	L-LMW-8S	3.1	0.6	6	No	9	77.78	No	0.002	NP (NDs)
COBALT, TOTAL (UG/L)	L-MW-26	0.75	0.39	6	No	9	100	No	0.002	NP (NDs)
COBALT, TOTAL (UG/L)	L-AM-1D	0.75	0.475	6	No	9	100	No	0.002	NP (NDs)
COBALT, TOTAL (UG/L)	L-AM-1S	4.511	1.445	6	No	9	11.11	No	0.01	Param.
COBALT, TOTAL (UG/L)	L-TP-1D	0.75	0.475	6	No	7	100	No	0.008	NP (NDs)
COBALT, TOTAL (UG/L)	L-TP-2D	0.75	0.475	6	No	9	100	No	0.002	NP (NDs)
COBALT, TOTAL (UG/L)	L-TP-2M	0.75	0.475	6	No	9	100	No	0.002	NP (NDs)
COBALT, TOTAL (UG/L)	L-TP-3D	0.75	0.39	6	No	9	100	No	0.002	NP (NDs)
COBALT, TOTAL (UG/L)	L-TP-3M	0.75	0.39	6	No	9	100	No	0.002	NP (NDs)
COBALT, TOTAL (UG/L)	L-TP-4D	0.75	0.39	6	No	9	100	No	0.002	NP (NDs)
COBALT, TOTAL (UG/L)	L-AMW-8	0.75	0.475	6	No	9	100	No	0.002	NP (NDs)
COBALT, TOTAL (UG/L)	L-MW-24	0.75	0.39	6	No	9	100	No	0.002	NP (NDs)
COBALT, TOTAL (UG/L)	L-MW-33[D]	0.75	0.39	6	No	9	100	No	0.002	NP (NDs)
COBALT, TOTAL (UG/L)	L-MW-34[D]	0.75	0.39	6	No	8	100	No	0.004	NP (NDs)
COBALT, TOTAL (UG/L)	L-MW-35[D]	0.75	0.39	6	No	8	100	No	0.004	NP (NDs)
COBALT, TOTAL (UG/L)	L-S-1	2.364	1.108	6	No	9	44.44	ln(x)	0.01	Param.
FLUORIDE, TOTAL (MG/L)	L-LMW-1S	0.1993	0.1172	4	No	16	31.25	No	0.01	Param.
FLUORIDE, TOTAL (MG/L)	L-LMW-2S	0.22	0.06	4	No	12	50	No	0.01	NP (normality)
FLUORIDE, TOTAL (MG/L)	L-LMW-4S	0.29	0.06	4	No	13	46.15	No	0.01	NP (normality)
FLUORIDE, TOTAL (MG/L)	L-LMW-7S	0.28	0.043	4	No	13	46.15	No	0.01	NP (normality)
FLUORIDE, TOTAL (MG/L)	L-LMW-8S	0.4032	0.1863	4	No	15	26.67	No	0.01	Param.
FLUORIDE, TOTAL (MG/L)	L-MW-26	0.22	0.06	4	No	13	61.54	No	0.01	NP (NDs)
FLUORIDE, TOTAL (MG/L)	L-AM-1D	0.4	0.06	4	No	12	33.33	No	0.01	NP (normality)
FLUORIDE, TOTAL (MG/L)	L-AM-1S	0.32	0.043	4	No	12	58.33	No	0.01	NP (NDs)
FLUORIDE, TOTAL (MG/L)	L-TP-1D	0.22	0.06	4	No	12	50	No	0.01	NP (normality)
FLUORIDE, TOTAL (MG/L)	L-TP-2D	0.45	0.14	4	No	12	8.333	No	0.01	NP (normality)

Confidence Interval

Labadie E.C. Client: Ameren Data: LEC DATA Printed 8/14/2025, 1:21 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
FLUORIDE, TOTAL (MG/L)	L-TP-2M	0.51	0.06	4	No	12	25	No	0.01	NP (normality)
FLUORIDE, TOTAL (MG/L)	L-TP-3D	0.35	0.043	4	No	12	58.33	No	0.01	NP (NDs)
FLUORIDE, TOTAL (MG/L)	L-TP-3M	0.33	0.06	4	No	12	50	No	0.01	NP (normality)
FLUORIDE, TOTAL (MG/L)	L-TP-4D	0.32	0.06	4	No	12	50	No	0.01	NP (normality)
FLUORIDE, TOTAL (MG/L)	L-AMW-8	0.4007	0.196	4	No	12	25	No	0.01	Param.
FLUORIDE, TOTAL (MG/L)	L-MW-24	0.25	0.06	4	No	12	41.67	No	0.01	NP (normality)
FLUORIDE, TOTAL (MG/L)	L-MW-33[D]	0.42	0.0375	4	No	12	50	No	0.01	NP (normality)
FLUORIDE, TOTAL (MG/L)	L-MW-34[D]	0.34	0.06	4	No	12	50	No	0.01	NP (normality)
FLUORIDE, TOTAL (MG/L)	L-MW-35[D]	0.34	0.043	4	No	12	50	No	0.01	NP (normality)
FLUORIDE, TOTAL (MG/L)	L-S-1	0.24	0.06	4	No	11	54.55	No	0.006	NP (NDs)
LEAD, TOTAL (UG/L)	L-LMW-1S	3.05	1.9	15	No	8	100	No	0.004	NP (NDs)
LEAD, TOTAL (UG/L)	L-LMW-2S	2.3	1.9	15	No	8	100	No	0.004	NP (NDs)
LEAD, TOTAL (UG/L)	L-LMW-4S	3.05	1.9	15	No	8	100	No	0.004	NP (NDs)
LEAD, TOTAL (UG/L)	L-LMW-7S	3.05	1.9	15	No	7	100	No	0.008	NP (NDs)
LEAD, TOTAL (UG/L)	L-LMW-8S	4.1	1.9	15	No	8	87.5	No	0.004	NP (NDs)
LEAD, TOTAL (UG/L)	L-MW-26	2.3	1.9	15	No	7	100	No	0.008	NP (NDs)
LEAD, TOTAL (UG/L)	L-AM-1D	3.05	1.9	15	No	7	100	No	0.008	NP (NDs)
LEAD, TOTAL (UG/L)	L-AM-1S	3.05	1.9	15	No	7	100	No	0.008	NP (NDs)
LEAD, TOTAL (UG/L)	L-TP-1D	3.05	1.9	15	No	8	100	No	0.004	NP (NDs)
LEAD, TOTAL (UG/L)	L-TP-2D	3.05	1.9	15	No	8	100	No	0.004	NP (NDs)
LEAD, TOTAL (UG/L)	L-TP-2M	4.2	1.9	15	No	8	87.5	No	0.004	NP (NDs)
LEAD, TOTAL (UG/L)	L-TP-3D	2.3	1.9	15	No	8	100	No	0.004	NP (NDs)
LEAD, TOTAL (UG/L)	L-TP-3M	2.3	1.9	15	No	7	100	No	0.008	NP (NDs)
LEAD, TOTAL (UG/L)	L-TP-4D	2.3	1.9	15	No	7	100	No	0.008	NP (NDs)
LEAD, TOTAL (UG/L)	L-AMW-8	3.05	1.9	15	No	8	100	No	0.004	NP (NDs)
LEAD, TOTAL (UG/L)	L-MW-24	2.3	1.9	15	No	7	100	No	0.008	NP (NDs)
LEAD, TOTAL (UG/L)	L-MW-33[D]	2.3	1.9	15	No	8	100	No	0.004	NP (NDs)
LEAD, TOTAL (UG/L)	L-MW-34[D]	2.3	1.9	15	No	8	100	No	0.004	NP (NDs)
LEAD, TOTAL (UG/L)	L-MW-35[D]	2.3	1.9	15	No	8	100	No	0.004	NP (NDs)
LEAD, TOTAL (UG/L)	L-S-1	4.9	1.9	15	No	8	87.5	No	0.004	NP (NDs)
LITHIUM, TOTAL (UG/L)	L-LMW-1S	17.38	9.891	47.4	No	12	16.67	No	0.01	Param.
LITHIUM, TOTAL (UG/L)	L-LMW-2S	13.53	10.38	47.4	No	13	0	No	0.01	Param.
LITHIUM, TOTAL (UG/L)	L-LMW-4S	38.02	31.35	47.4	No	12	0	No	0.01	Param.
LITHIUM, TOTAL (UG/L)	L-LMW-7S	46.83	36.25	47.4	No	12	0	No	0.01	Param.
LITHIUM, TOTAL (UG/L)	L-LMW-8S	20.43	13.75	47.4	No	11	9.091	No	0.01	Param.
LITHIUM, TOTAL (UG/L)	L-MW-26	30	25.38	47.4	No	12	0	No	0.01	Param.
LITHIUM, TOTAL (UG/L)	L-AM-1D	38.54	34.4	47.4	No	12	0	No	0.01	Param.
LITHIUM, TOTAL (UG/L)	L-AM-1S	37.79	32.69	47.4	No	12	0	No	0.01	Param.
LITHIUM, TOTAL (UG/L)	L-TP-1D	26.18	24.04	47.4	No	11	0	No	0.01	Param.
LITHIUM, TOTAL (UG/L)	L-TP-2D	43.03	40.22	47.4	No	12	0	No	0.01	Param.
LITHIUM, TOTAL (UG/L)	L-TP-2M	35.5	31.77	47.4	No	11	0	No	0.01	Param.
LITHIUM, TOTAL (UG/L)	L-TP-3D	33.85	29.62	47.4	No	12	0	No	0.01	Param.
LITHIUM, TOTAL (UG/L)	L-TP-3M	35.27	30.3	47.4	No	12	0	No	0.01	Param.
LITHIUM, TOTAL (UG/L)	L-TP-4D	25.14	22.2	47.4	No	11	0	No	0.01	Param.
LITHIUM, TOTAL (UG/L)	L-AMW-8	18.97	15.4	47.4	No	12	0	No	0.01	Param.
LITHIUM, TOTAL (UG/L)	L-MW-24	22.74	16.81	47.4	No	12	0	No	0.01	Param.
LITHIUM, TOTAL (UG/L)	L-MW-33[D]	35.48	32.92	47.4	No	10	0	No	0.01	Param.
LITHIUM, TOTAL (UG/L)	L-MW-34[D]	37.48	34.14	47.4	No	12	0	No	0.01	Param.
LITHIUM, TOTAL (UG/L)	L-MW-35[D]	29.83	26.45	47.4	No	12	0	No	0.01	Param.
LITHIUM, TOTAL (UG/L)	L-S-1	28.09	21.39	47.4	No	12	0	No	0.01	Param.

Confidence Interval

Labadie E.C. Client: Ameren Data: LEC DATA Printed 8/14/2025, 1:22 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
MERCURY, TOTAL (UG/L)	L-LMW-1S	0.06	0.029	2	No	8	100	No	0.004	NP (NDs)
MERCURY, TOTAL (UG/L)	L-LMW-2S	0.06	0.029	2	No	8	100	No	0.004	NP (NDs)
MERCURY, TOTAL (UG/L)	L-LMW-4S	0.06	0.029	2	No	8	100	No	0.004	NP (NDs)
MERCURY, TOTAL (UG/L)	L-LMW-7S	0.06	0.029	2	No	8	100	No	0.004	NP (NDs)
MERCURY, TOTAL (UG/L)	L-LMW-8S	0.06	0.029	2	No	8	100	No	0.004	NP (NDs)
MERCURY, TOTAL (UG/L)	L-MW-26	0.06	0.029	2	No	8	100	No	0.004	NP (NDs)
MERCURY, TOTAL (UG/L)	L-AM-1D	0.06	0.029	2	No	8	100	No	0.004	NP (NDs)
MERCURY, TOTAL (UG/L)	L-AM-1S	0.06	0.029	2	No	8	100	No	0.004	NP (NDs)
MERCURY, TOTAL (UG/L)	L-TP-1D	0.06	0.029	2	No	8	100	No	0.004	NP (NDs)
MERCURY, TOTAL (UG/L)	L-TP-2D	0.06	0.029	2	No	8	100	No	0.004	NP (NDs)
MERCURY, TOTAL (UG/L)	L-TP-2M	0.06	0.029	2	No	8	100	No	0.004	NP (NDs)
MERCURY, TOTAL (UG/L)	L-TP-3D	0.06	0.029	2	No	8	100	No	0.004	NP (NDs)
MERCURY, TOTAL (UG/L)	L-TP-3M	0.06	0.029	2	No	8	100	No	0.004	NP (NDs)
MERCURY, TOTAL (UG/L)	L-TP-4D	0.06	0.029	2	No	8	100	No	0.004	NP (NDs)
MERCURY, TOTAL (UG/L)	L-AMW-8	0.06	0.029	2	No	8	100	No	0.004	NP (NDs)
MERCURY, TOTAL (UG/L)	L-MW-24	0.06	0.029	2	No	8	100	No	0.004	NP (NDs)
MERCURY, TOTAL (UG/L)	L-MW-33[D]	0.06	0.029	2	No	8	100	No	0.004	NP (NDs)
MERCURY, TOTAL (UG/L)	L-MW-34[D]	0.06	0.029	2	No	8	100	No	0.004	NP (NDs)
MERCURY, TOTAL (UG/L)	L-MW-35[D]	0.06	0.029	2	No	8	100	No	0.004	NP (NDs)
MERCURY, TOTAL (UG/L)	L-S-1	0.06	0.029	2	No	8	100	No	0.004	NP (NDs)
MOLYBDENUM, TOTAL (UG/L)	L-LMW-1S	8.165	2.637	100	No	12	16.67	No	0.01	Param.
MOLYBDENUM, TOTAL (UG/L)	**L-LMW-2S**	**212.5**	**121.7**	**100**	**Yes**	**12**	**0**	**No**	**0.01**	**Param.**
MOLYBDENUM, TOTAL (UG/L)	**L-LMW-4S**	**142.8**	**50.73**	**100**	**Yes**	**12**	**0**	**No**	**0.01**	**Param.**
MOLYBDENUM, TOTAL (UG/L)	**L-LMW-7S**	**124.4**	**58.54**	**100**	**Yes**	**12**	**0**	**ln(x)**	**0.01**	**Param.**
MOLYBDENUM, TOTAL (UG/L)	**L-LMW-8S**	**209.1**	**96.89**	**100**	**Yes**	**12**	**0**	**No**	**0.01**	**Param.**
MOLYBDENUM, TOTAL (UG/L)	L-MW-26	1.3	0.455	100	No	12	83.33	No	0.01	NP (NDs)
MOLYBDENUM, TOTAL (UG/L)	**L-AM-1D**	**366.2**	**313.5**	**100**	**Yes**	**13**	**0**	**No**	**0.01**	**Param.**
MOLYBDENUM, TOTAL (UG/L)	L-AM-1S	4.262	2.387	100	No	13	23.08	ln(x)	0.01	Param.
MOLYBDENUM, TOTAL (UG/L)	L-TP-1D	5.1	0.5	100	No	15	80	No	0.01	NP (NDs)
MOLYBDENUM, TOTAL (UG/L)	**L-TP-2D**	**135.7**	**114.4**	**100**	**Yes**	**15**	**0**	**No**	**0.01**	**Param.**
MOLYBDENUM, TOTAL (UG/L)	L-TP-2M	89.71	71.73	100	No	15	0	No	0.01	Param.
MOLYBDENUM, TOTAL (UG/L)	**L-TP-3D**	**749.6**	**498.7**	**100**	**Yes**	**15**	**0**	**ln(x)**	**0.01**	**Param.**
MOLYBDENUM, TOTAL (UG/L)	**L-TP-3M**	**317.7**	**208.7**	**100**	**Yes**	**15**	**0**	**No**	**0.01**	**Param.**
MOLYBDENUM, TOTAL (UG/L)	L-TP-4D	6.1	2.4	100	No	15	13.33	No	0.01	NP (normality)
MOLYBDENUM, TOTAL (UG/L)	**L-AMW-8**	**326.6**	**285.1**	**100**	**Yes**	**14**	**0**	**No**	**0.01**	**Param.**
MOLYBDENUM, TOTAL (UG/L)	L-MW-24	2.1	0.5	100	No	11	63.64	No	0.006	NP (NDs)
MOLYBDENUM, TOTAL (UG/L)	**L-MW-33[D]**	**1027**	**726.8**	**100**	**Yes**	**12**	**0**	**No**	**0.01**	**Param.**
MOLYBDENUM, TOTAL (UG/L)	**L-MW-34[D]**	**1014**	**700.8**	**100**	**Yes**	**12**	**0**	**No**	**0.01**	**Param.**
MOLYBDENUM, TOTAL (UG/L)	**L-MW-35[D]**	**581.6**	**410.2**	**100**	**Yes**	**12**	**0**	**No**	**0.01**	**Param.**
MOLYBDENUM, TOTAL (UG/L)	L-S-1	1.1	0.5	100	No	11	90.91	No	0.006	NP (NDs)
Radium [226 + 228] (PCI/L)	L-LMW-1S	0.9305	0.608	5	No	12	100	No	0.01	NP (NDs)
Radium [226 + 228] (PCI/L)	L-LMW-2S	1.193	0.6365	5	No	12	100	No	0.01	NP (NDs)
Radium [226 + 228] (PCI/L)	L-LMW-4S	1.077	0.5448	5	No	12	100	No	0.01	NP (NDs)
Radium [226 + 228] (PCI/L)	L-LMW-7S	1.105	0.6365	5	No	11	100	No	0.006	NP (NDs)
Radium [226 + 228] (PCI/L)	L-LMW-8S	1.004	0.746	5	No	12	100	No	0.01	NP (NDs)
Radium [226 + 228] (PCI/L)	L-MW-26	0.9925	0.498	5	No	12	100	No	0.01	NP (NDs)
Radium [226 + 228] (PCI/L)	L-AM-1D	1.641	0.6775	5	No	12	83.33	No	0.01	NP (NDs)
Radium [226 + 228] (PCI/L)	L-AM-1S	1.031	0.6165	5	No	11	100	No	0.006	NP (NDs)
Radium [226 + 228] (PCI/L)	L-TP-1D	4.326	2.944	5	No	12	0	No	0.01	Param.
Radium [226 + 228] (PCI/L)	L-TP-2D	1.899	0.8205	5	No	12	75	No	0.01	NP (NDs)

Confidence Interval

Labadie E.C. Client: Ameren Data: LEC DATA Printed 8/14/2025, 1:22 PM

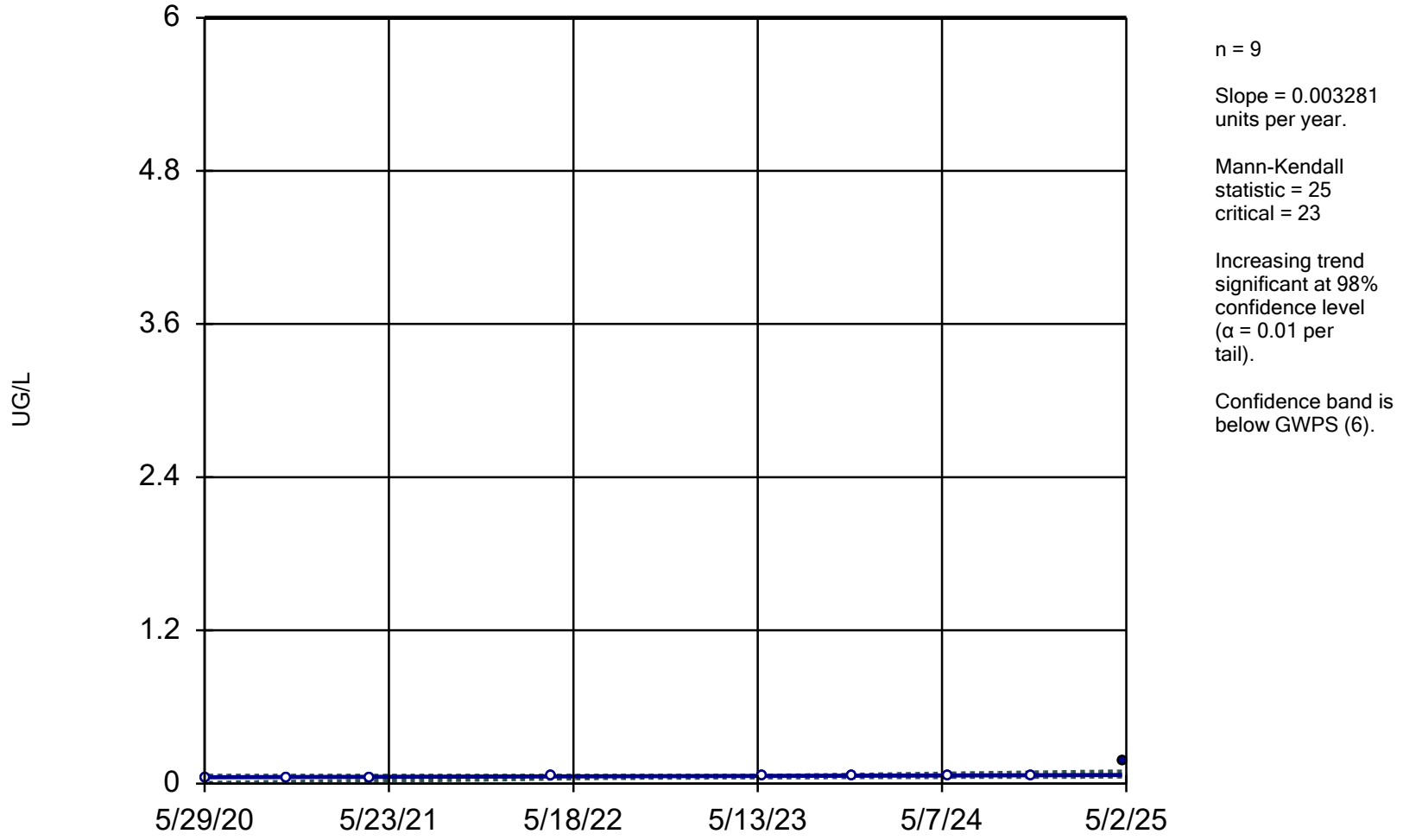
Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Radium [226 + 228] (PCI/L)	L-TP-2M	2.391	0.64	5	No	12	58.33	No	0.01	NP (NDs)
Radium [226 + 228] (PCI/L)	L-TP-3D	1.098	0.762	5	No	11	100	No	0.006	NP (NDs)
Radium [226 + 228] (PCI/L)	L-TP-3M	2.324	1.408	5	No	12	41.67	No	0.01	Param.
Radium [226 + 228] (PCI/L)	L-TP-4D	3.246	2.104	5	No	12	8.333	No	0.01	Param.
Radium [226 + 228] (PCI/L)	L-AMW-8	1.824	0.6975	5	No	12	75	No	0.01	NP (NDs)
Radium [226 + 228] (PCI/L)	L-MW-24	1.086	0.5455	5	No	11	90.91	No	0.006	NP (NDs)
Radium [226 + 228] (PCI/L)	L-MW-33[D]	1.056	0.89	5	No	10	90	No	0.011	NP (NDs)
Radium [226 + 228] (PCI/L)	L-MW-34[D]	1.491	0.606	5	No	12	75	No	0.01	NP (NDs)
Radium [226 + 228] (PCI/L)	L-MW-35[D]	2.007	0.509	5	No	12	75	No	0.01	NP (NDs)
Radium [226 + 228] (PCI/L)	L-S-1	1.865	0.706	5	No	12	75	No	0.01	NP (NDs)
SELENIUM, TOTAL (UG/L)	L-LMW-1S	4.6	0.09	50	No	11	54.55	No	0.006	NP (NDs)
SELENIUM, TOTAL (UG/L)	L-LMW-2S	0.24	0.09	50	No	12	41.67	No	0.01	NP (normality)
SELENIUM, TOTAL (UG/L)	L-LMW-4S	0.49	0.09	50	No	12	66.67	No	0.01	NP (NDs)
SELENIUM, TOTAL (UG/L)	L-LMW-7S	0.09	0.09	50	No	10	90	No	0.011	NP (NDs)
SELENIUM, TOTAL (UG/L)	L-LMW-8S	11.2	0.09	50	No	12	50	No	0.01	NP (normality)
SELENIUM, TOTAL (UG/L)	L-MW-26	4.948	0.9321	50	No	12	0	No	0.01	Param.
SELENIUM, TOTAL (UG/L)	L-AM-1D	0.09	0.09	50	No	12	100	No	0.01	NP (NDs)
SELENIUM, TOTAL (UG/L)	L-AM-1S	1.3	0.09	50	No	12	41.67	No	0.01	NP (normality)
SELENIUM, TOTAL (UG/L)	L-TP-1D	0.09	0.09	50	No	12	100	No	0.01	NP (NDs)
SELENIUM, TOTAL (UG/L)	L-TP-2D	0.09	0.09	50	No	12	100	No	0.01	NP (NDs)
SELENIUM, TOTAL (UG/L)	L-TP-2M	0.09	0.09	50	No	12	100	No	0.01	NP (NDs)
SELENIUM, TOTAL (UG/L)	L-TP-3D	0.09	0.09	50	No	12	100	No	0.01	NP (NDs)
SELENIUM, TOTAL (UG/L)	L-TP-3M	0.09	0.09	50	No	12	100	No	0.01	NP (NDs)
SELENIUM, TOTAL (UG/L)	L-TP-4D	0.09	0.09	50	No	12	100	No	0.01	NP (NDs)
SELENIUM, TOTAL (UG/L)	L-AMW-8	0.09	0.09	50	No	12	100	No	0.01	NP (NDs)
SELENIUM, TOTAL (UG/L)	L-MW-24	23.59	6.367	50	No	12	16.67	No	0.01	Param.
SELENIUM, TOTAL (UG/L)	L-MW-33[D]	0.09	0.09	50	No	12	100	No	0.01	NP (NDs)
SELENIUM, TOTAL (UG/L)	L-MW-34[D]	0.09	0.09	50	No	12	100	No	0.01	NP (NDs)
SELENIUM, TOTAL (UG/L)	L-MW-35[D]	0.09	0.09	50	No	12	100	No	0.01	NP (NDs)
SELENIUM, TOTAL (UG/L)	L-S-1	8.2	0.09	50	No	11	36.36	No	0.006	NP (normality)
THALLIUM, TOTAL (UG/L)	L-LMW-1S	0.075	0.0465	2	No	8	100	No	0.004	NP (NDs)
THALLIUM, TOTAL (UG/L)	L-LMW-2S	0.075	0.0465	2	No	7	100	No	0.008	NP (NDs)
THALLIUM, TOTAL (UG/L)	L-LMW-4S	0.075	0.0465	2	No	8	100	No	0.004	NP (NDs)
THALLIUM, TOTAL (UG/L)	L-LMW-7S	0.075	0.0465	2	No	8	100	No	0.004	NP (NDs)
THALLIUM, TOTAL (UG/L)	L-LMW-8S	0.075	0.0465	2	No	8	100	No	0.004	NP (NDs)
THALLIUM, TOTAL (UG/L)	L-MW-26	0.075	0.0465	2	No	8	100	No	0.004	NP (NDs)
THALLIUM, TOTAL (UG/L)	L-AM-1D	0.075	0.0465	2	No	8	100	No	0.004	NP (NDs)
THALLIUM, TOTAL (UG/L)	L-AM-1S	0.075	0.0465	2	No	8	100	No	0.004	NP (NDs)
THALLIUM, TOTAL (UG/L)	L-TP-1D	0.075	0.0465	2	No	8	100	No	0.004	NP (NDs)
THALLIUM, TOTAL (UG/L)	L-TP-2D	0.075	0.0465	2	No	8	100	No	0.004	NP (NDs)
THALLIUM, TOTAL (UG/L)	L-TP-2M	0.075	0.0465	2	No	8	100	No	0.004	NP (NDs)
THALLIUM, TOTAL (UG/L)	L-TP-3D	0.075	0.0465	2	No	8	100	No	0.004	NP (NDs)
THALLIUM, TOTAL (UG/L)	L-TP-3M	0.075	0.0465	2	No	8	100	No	0.004	NP (NDs)
THALLIUM, TOTAL (UG/L)	L-TP-4D	0.075	0.0465	2	No	8	100	No	0.004	NP (NDs)
THALLIUM, TOTAL (UG/L)	L-AMW-8	0.075	0.0465	2	No	8	100	No	0.004	NP (NDs)
THALLIUM, TOTAL (UG/L)	L-MW-24	0.075	0.0465	2	No	8	100	No	0.004	NP (NDs)
THALLIUM, TOTAL (UG/L)	L-MW-33[D]	0.075	0.0465	2	No	8	100	No	0.004	NP (NDs)
THALLIUM, TOTAL (UG/L)	L-MW-34[D]	0.075	0.0465	2	No	8	100	No	0.004	NP (NDs)
THALLIUM, TOTAL (UG/L)	L-MW-35[D]	0.075	0.0465	2	No	8	100	No	0.004	NP (NDs)
THALLIUM, TOTAL (UG/L)	L-S-1	0.075	0.0465	2	No	8	100	No	0.004	NP (NDs)

Appendix B
Sanitas Trending Confidence Bands Statistical Output

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Sen's Slope and 95% Confidence Band

L-TP-4D



n = 9

Slope = 0.003281 units per year.

Mann-Kendall statistic = 25
critical = 23

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Confidence band is below GWPS (6).

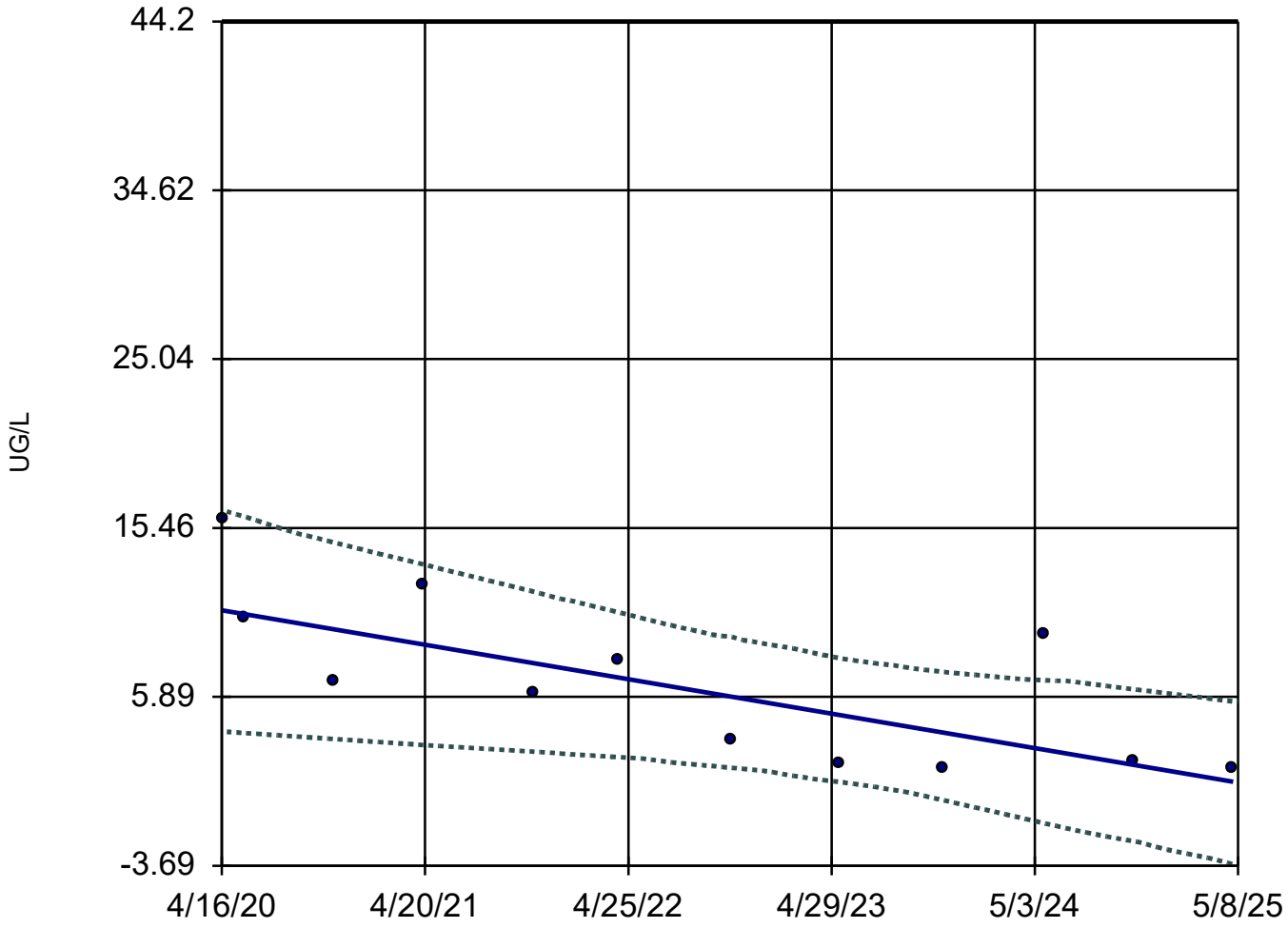
Constituent: ANTIMONY, TOTAL Analysis Run 8/14/2025 1:22 PM

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG

Sen's Slope and 95% Confidence Band

L-LMW-1S



n = 12

Slope = -1.931 units per year.

Mann-Kendall statistic = -41
critical = -35

Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

Confidence band is below GWPS (44.2).

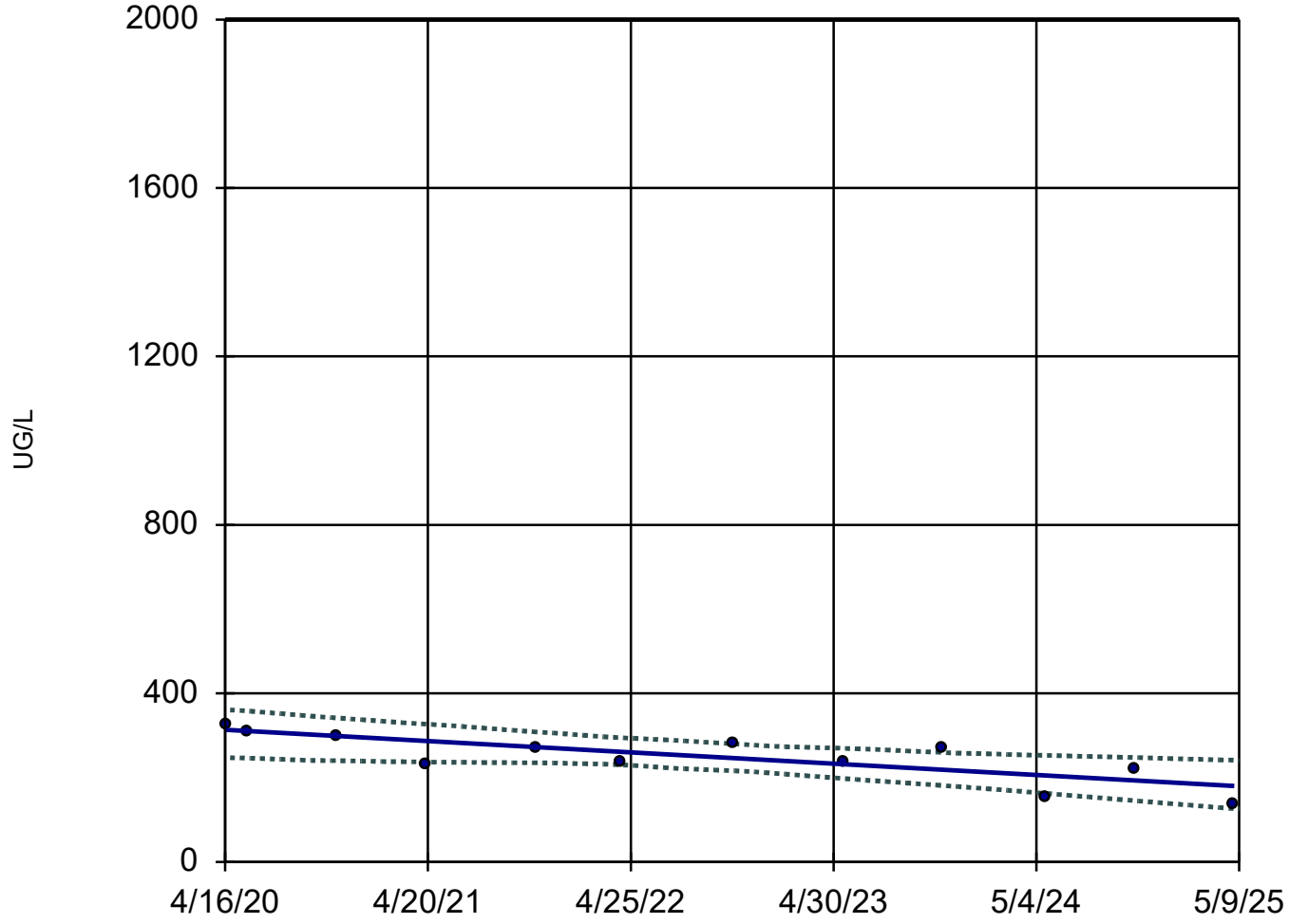
Constituent: ARSENIC, TOTAL Analysis Run 8/14/2025 1:22 PM

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG

Sen's Slope and 95% Confidence Band

L-LMW-7S



n = 12

Slope = -26.58 units per year.

Mann-Kendall statistic = -44
critical = -35

Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

Confidence band is below GWPS (2000).

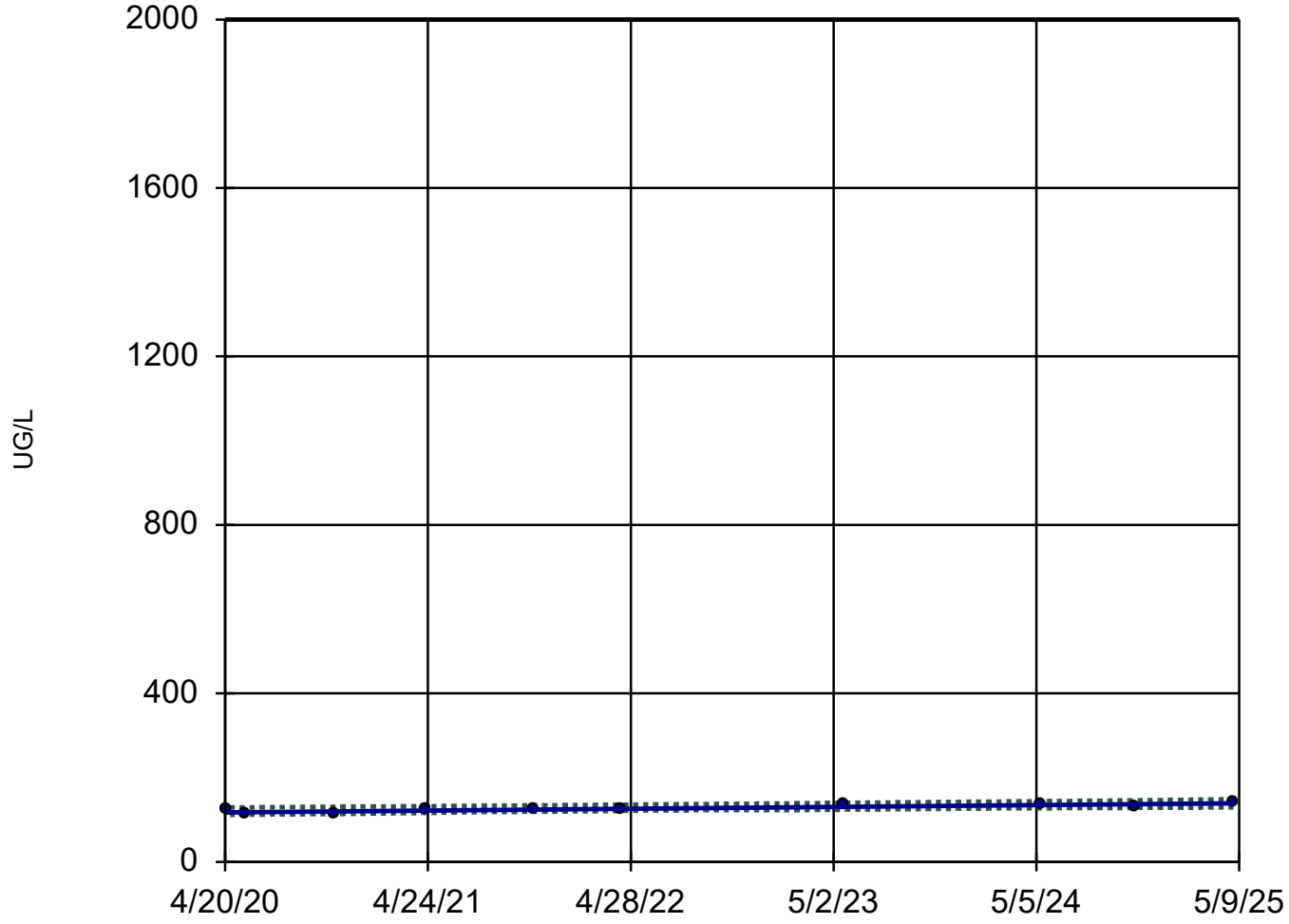
Constituent: BARIUM, TOTAL Analysis Run 8/14/2025 1:22 PM

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG

Sen's Slope and 95% Confidence Band

L-TP-2M



n = 10

Slope = 4.218 units per year.

Mann-Kendall statistic = 31 critical = 27

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Confidence band is below GWPS (2000).

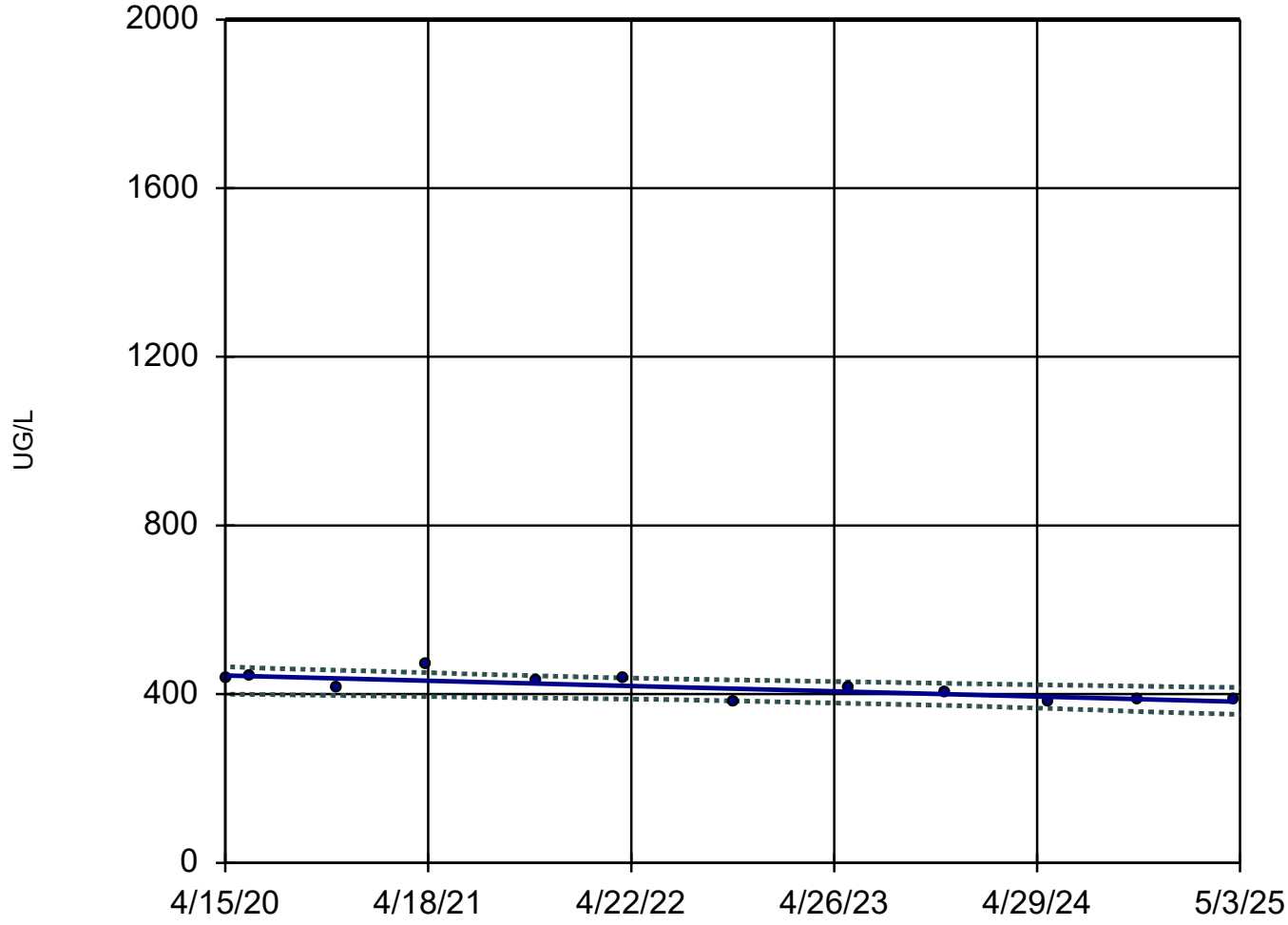
Constituent: BARIUM, TOTAL Analysis Run 8/14/2025 1:23 PM

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG

Sen's Slope and 95% Confidence Band

L-TP-4D



n = 12

Slope = -12.35 units per year.

Mann-Kendall statistic = -37
critical = -35

Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

Confidence band is below GWPS (2000).

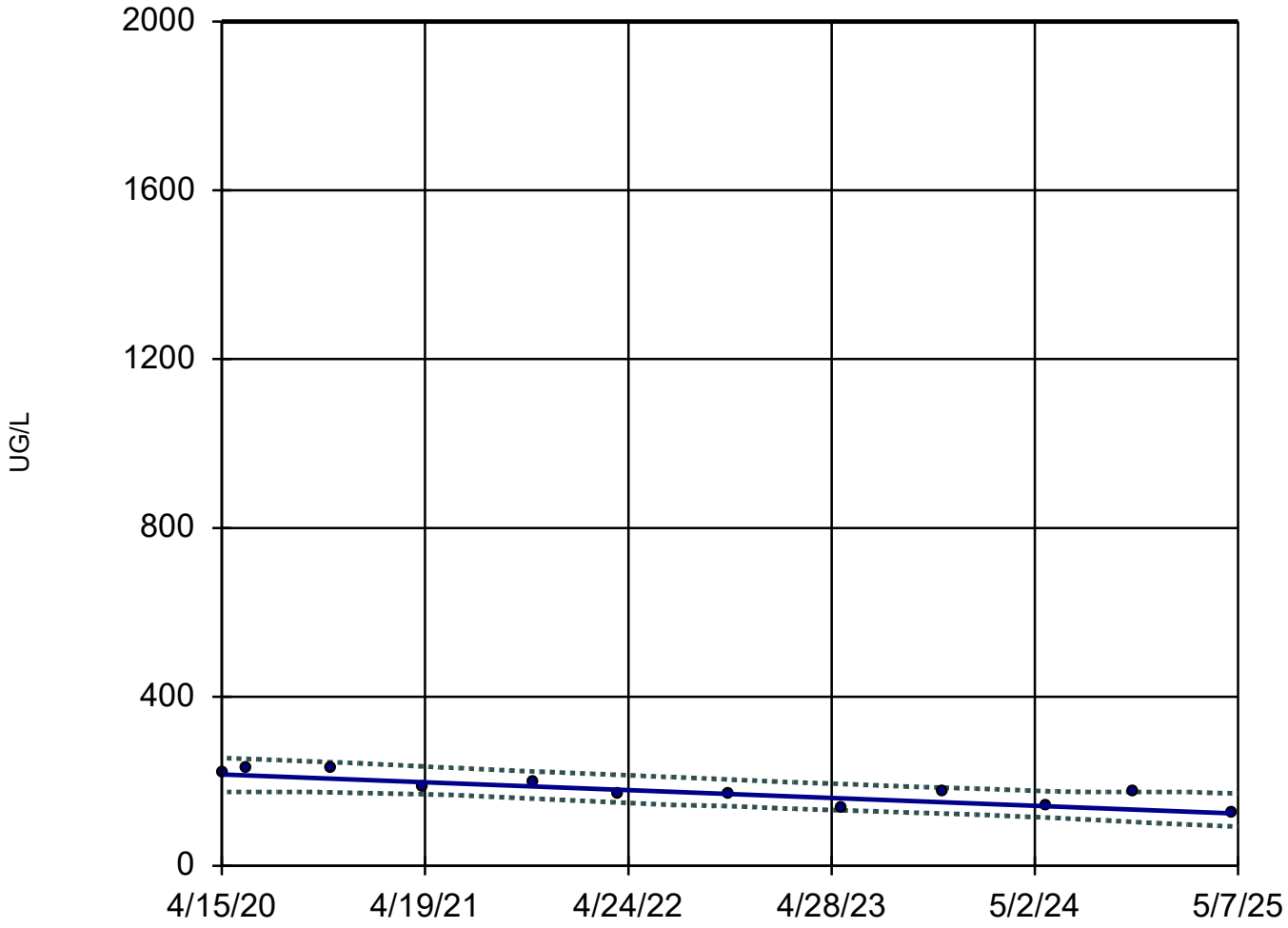
Constituent: BARIUM, TOTAL Analysis Run 8/14/2025 1:23 PM

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG

Sen's Slope and 95% Confidence Band

L-MW-24



n = 12

Slope = -18.42 units per year.

Mann-Kendall statistic = -41 critical = -35

Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

Confidence band is below GWPS (2000).

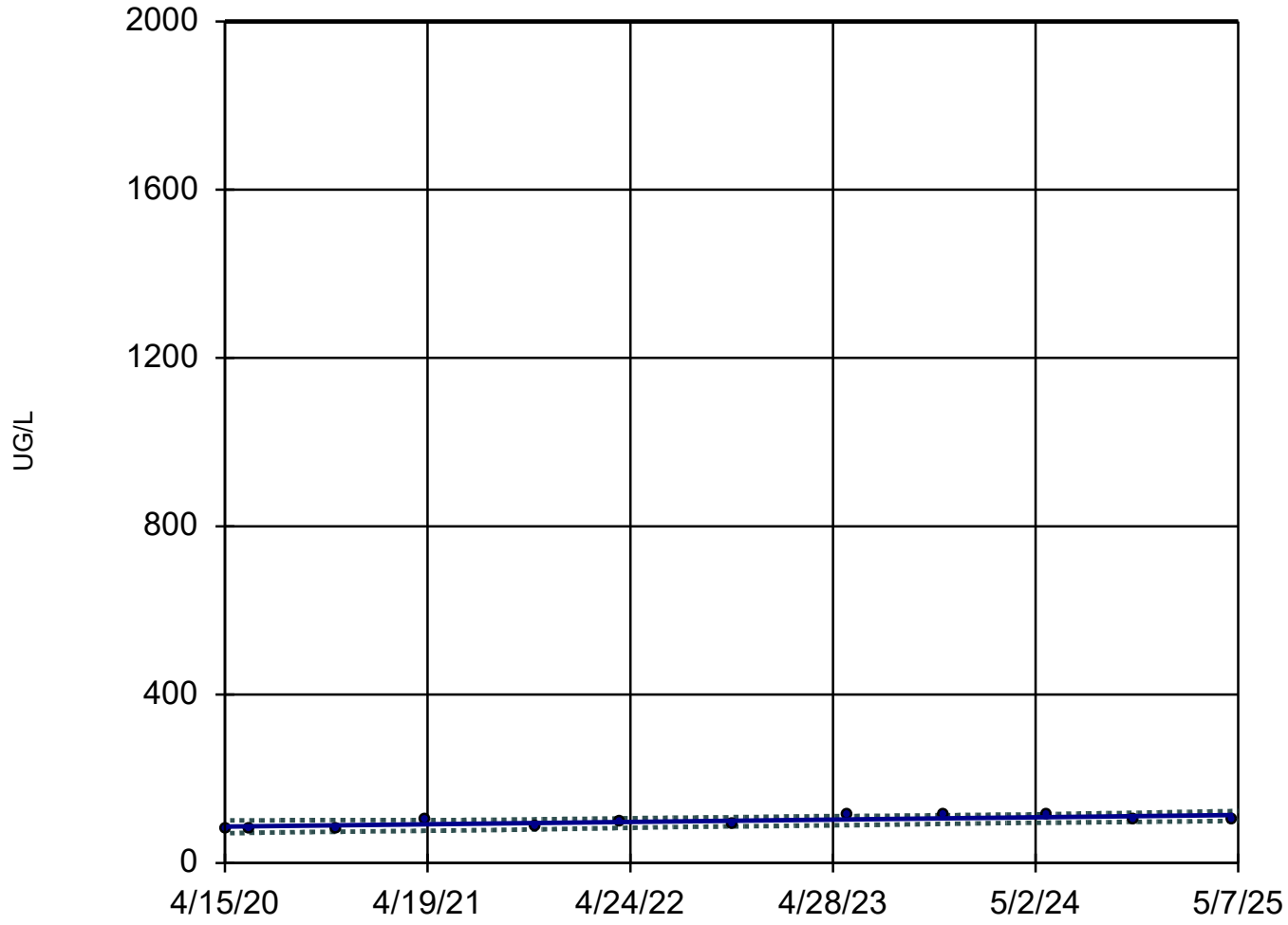
Constituent: BARIUM, TOTAL Analysis Run 8/14/2025 1:23 PM

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG

Sen's Slope and 95% Confidence Band

L-MW-34[D]



n = 12

Slope = 5.483 units per year.

Mann-Kendall statistic = 43 critical = 35

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

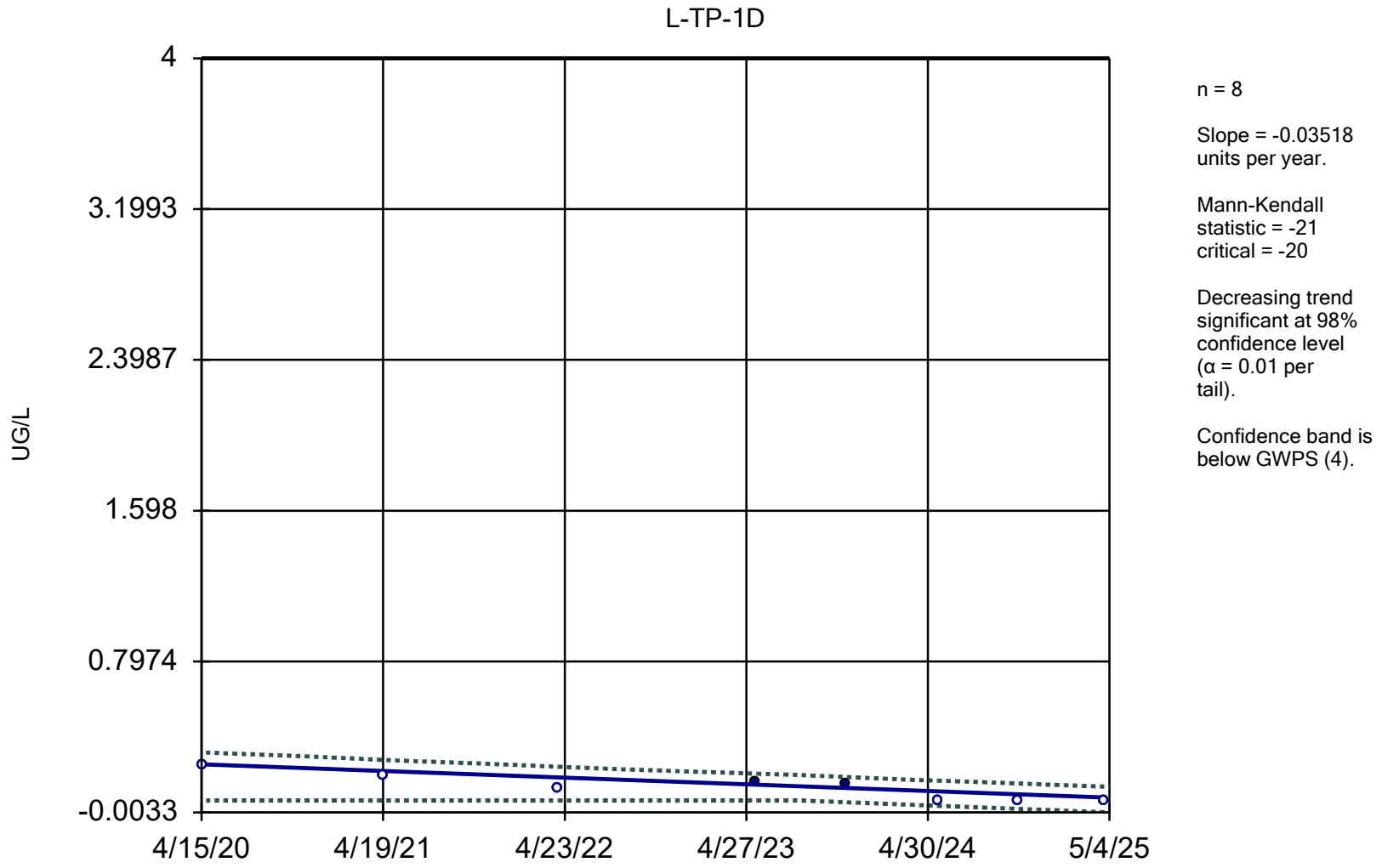
Confidence band is below GWPS (2000).

Constituent: BARIUM, TOTAL Analysis Run 8/14/2025 1:23 PM

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Sen's Slope and 95% Confidence Band



n = 8

Slope = -0.03518 units per year.

Mann-Kendall statistic = -21
critical = -20

Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

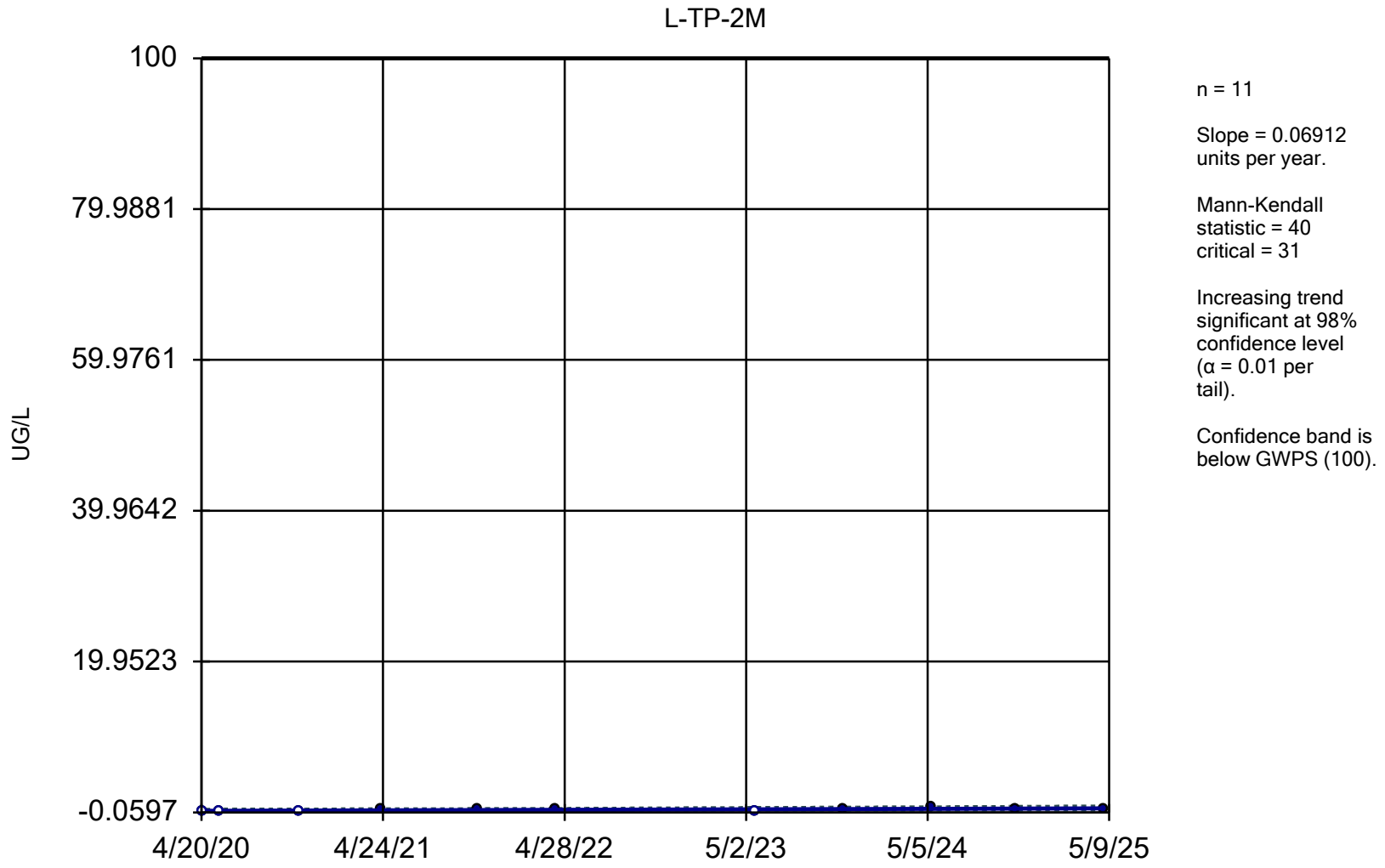
Confidence band is below GWPS (4).

Constituent: BERYLLIUM, TOTAL Analysis Run 8/14/2025 1:23 PM

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Sen's Slope and 95% Confidence Band



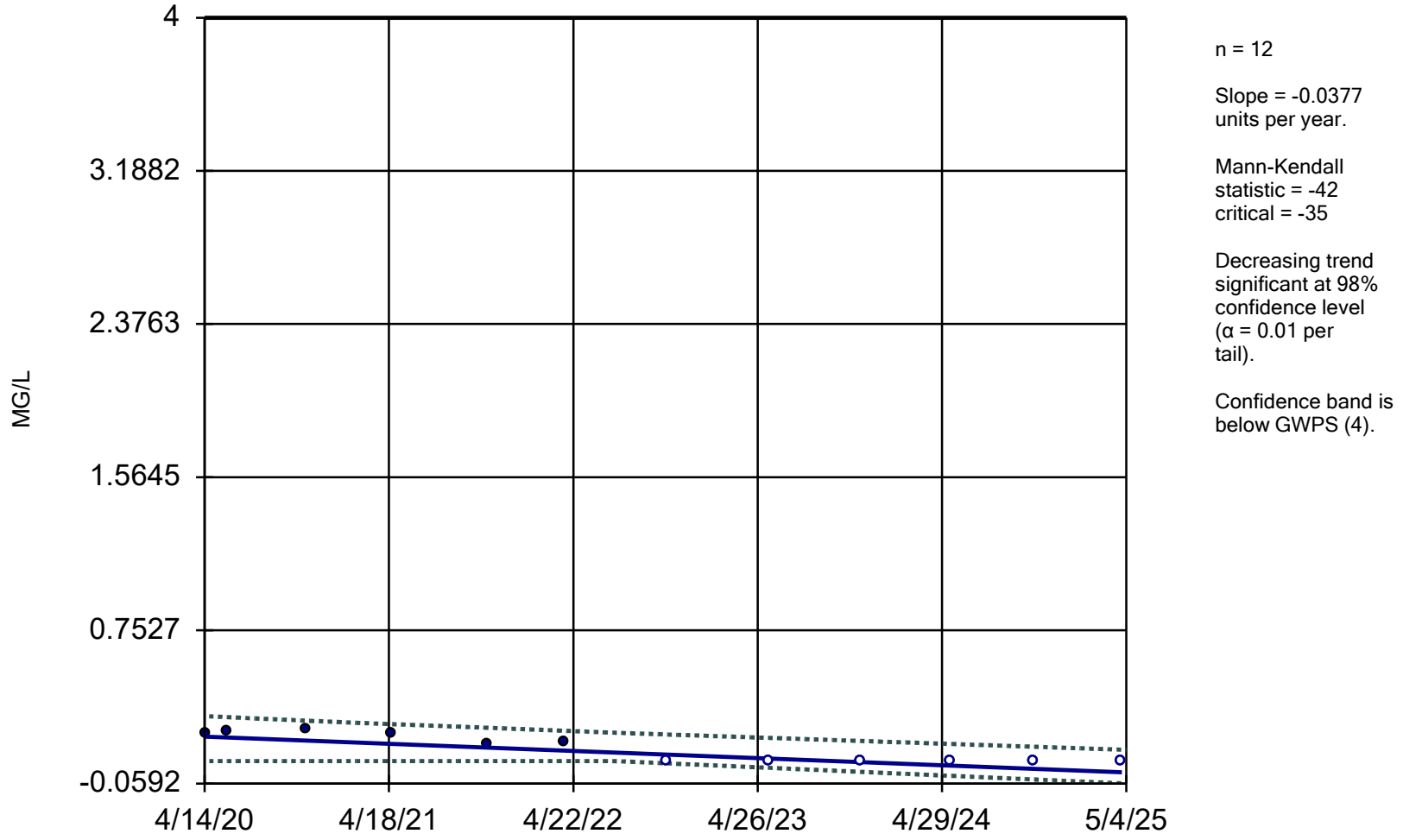
Constituent: CHROMIUM, TOTAL Analysis Run 8/14/2025 1:23 PM

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Sen's Slope and 95% Confidence Band

L-LMW-2S



n = 12

Slope = -0.0377 units per year.

Mann-Kendall statistic = -42
critical = -35

Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

Confidence band is below GWPS (4).

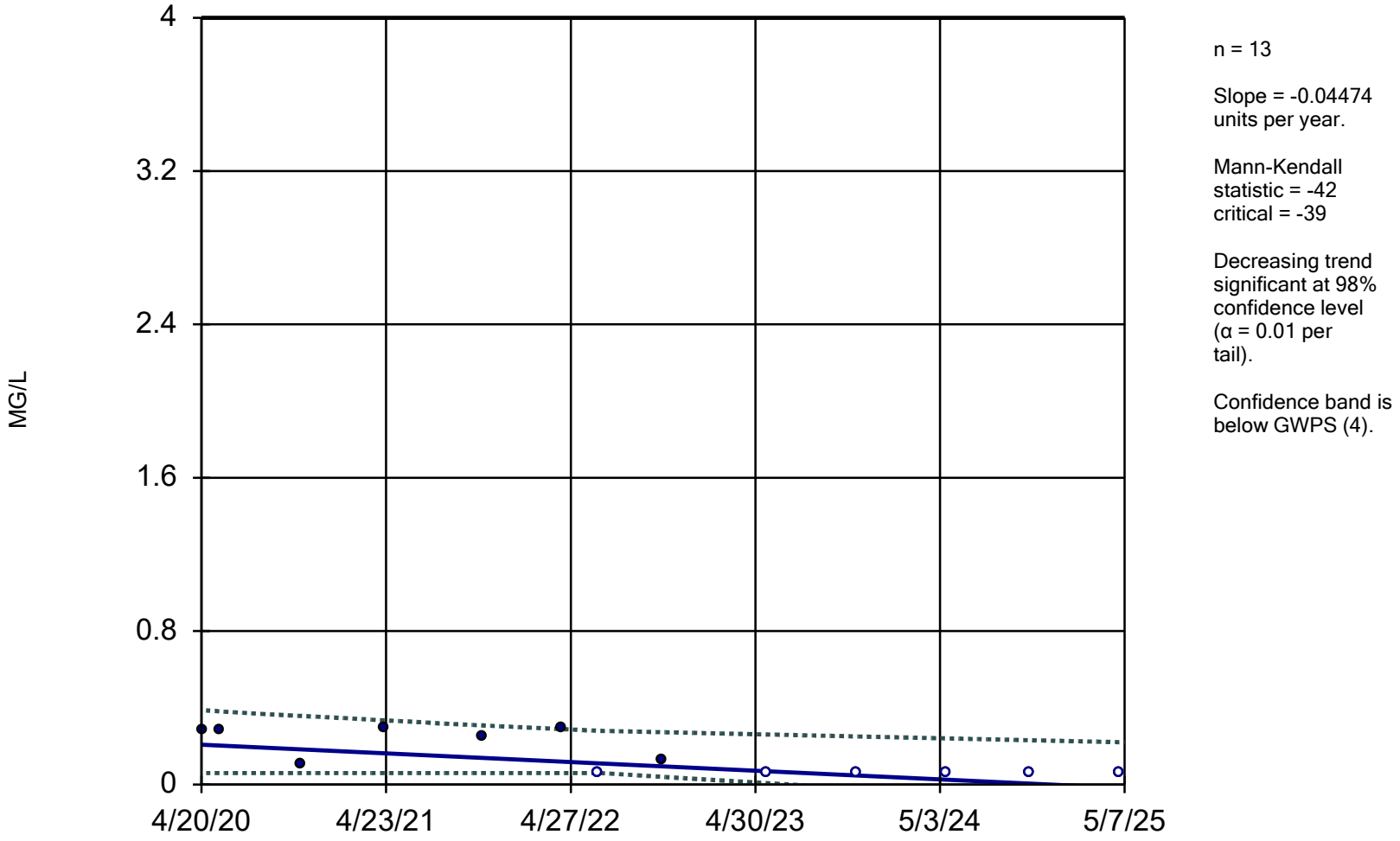
Constituent: FLUORIDE, TOTAL Analysis Run 8/14/2025 1:24 PM

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Sen's Slope and 95% Confidence Band

L-LMW-4S



n = 13

Slope = -0.04474 units per year.

Mann-Kendall statistic = -42
critical = -39

Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

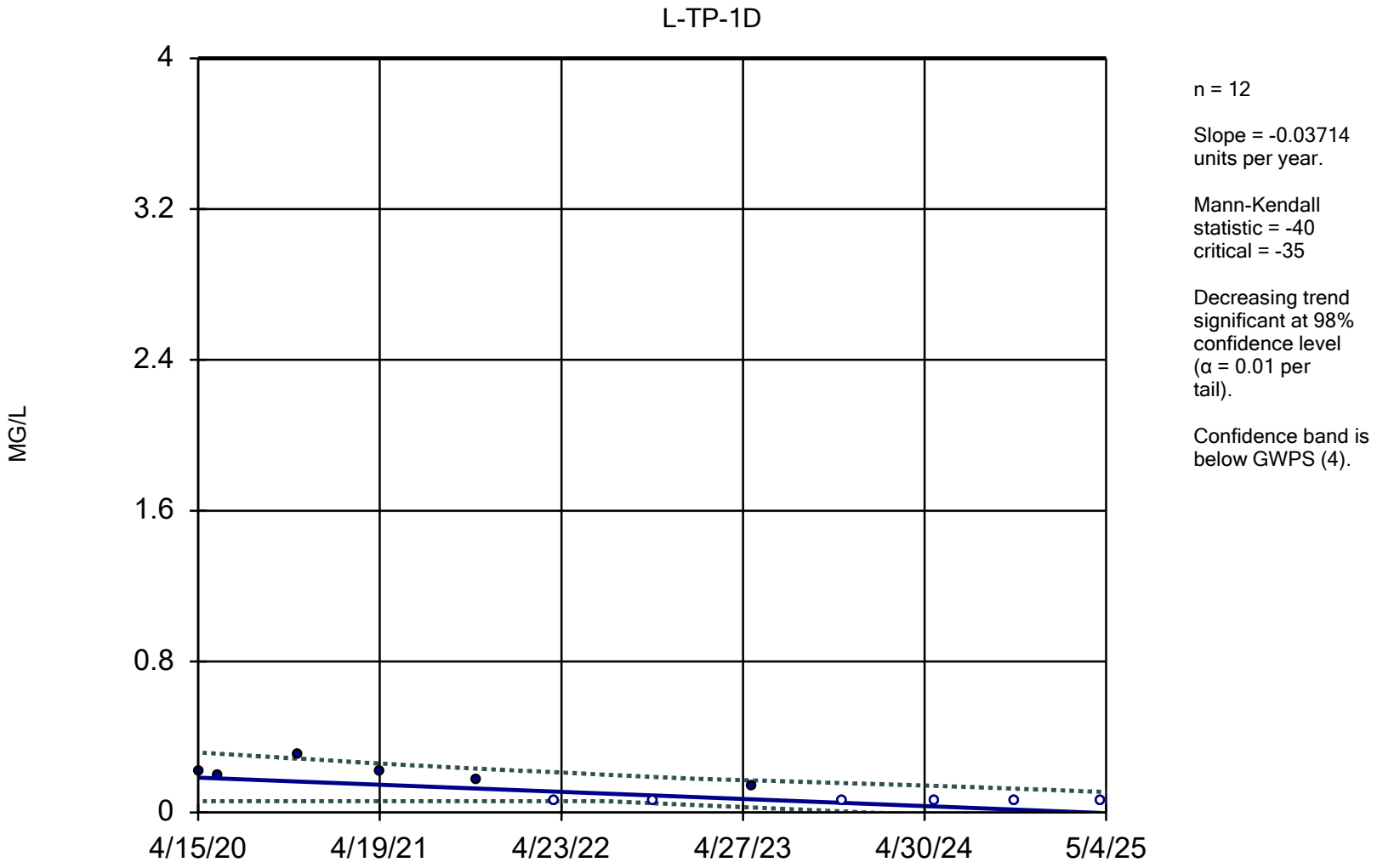
Confidence band is below GWPS (4).

Constituent: FLUORIDE, TOTAL Analysis Run 8/14/2025 1:24 PM

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Sen's Slope and 95% Confidence Band

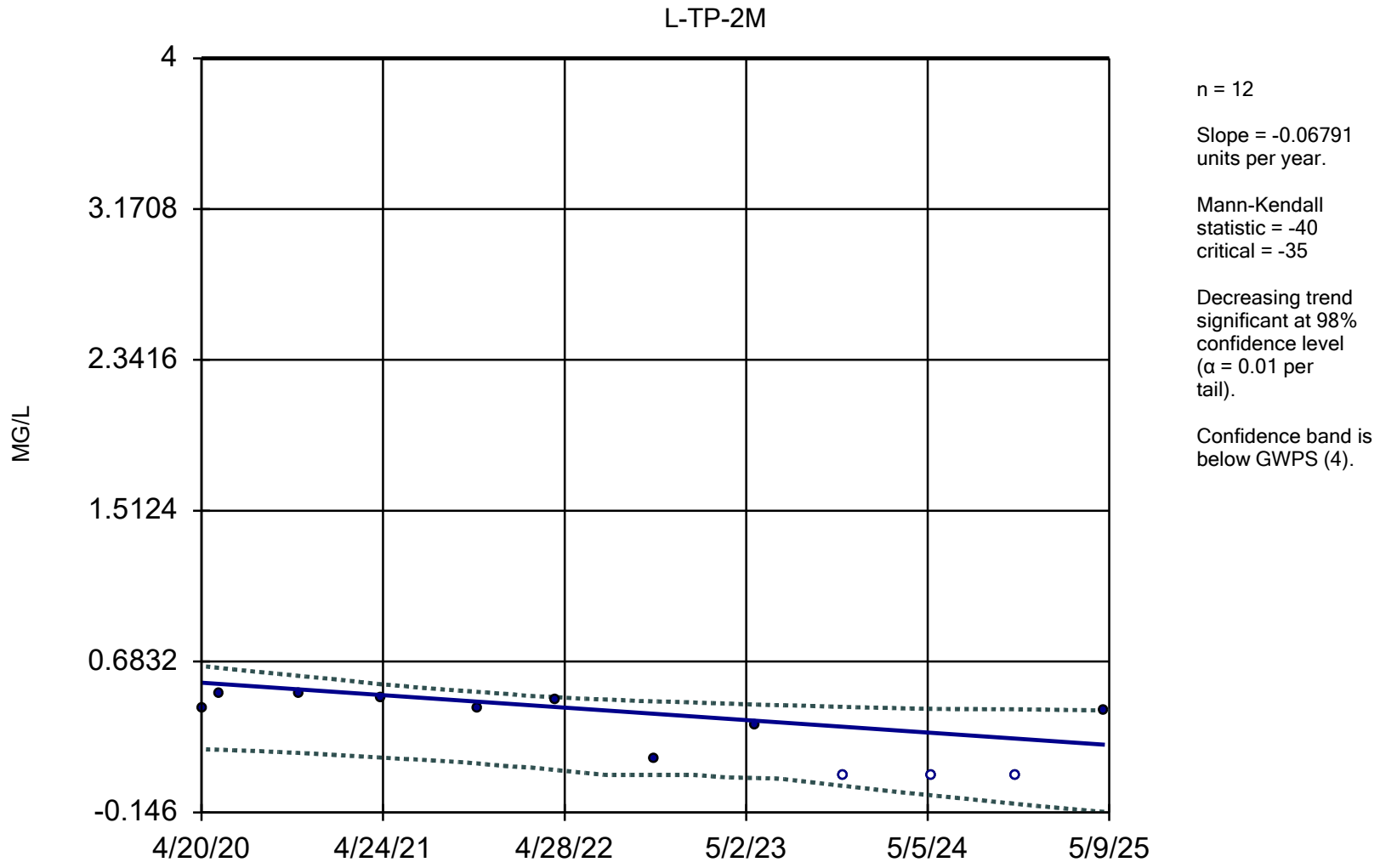


Constituent: FLUORIDE, TOTAL Analysis Run 8/14/2025 1:24 PM

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Sen's Slope and 95% Confidence Band



n = 12

Slope = -0.06791 units per year.

Mann-Kendall statistic = -40
critical = -35

Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

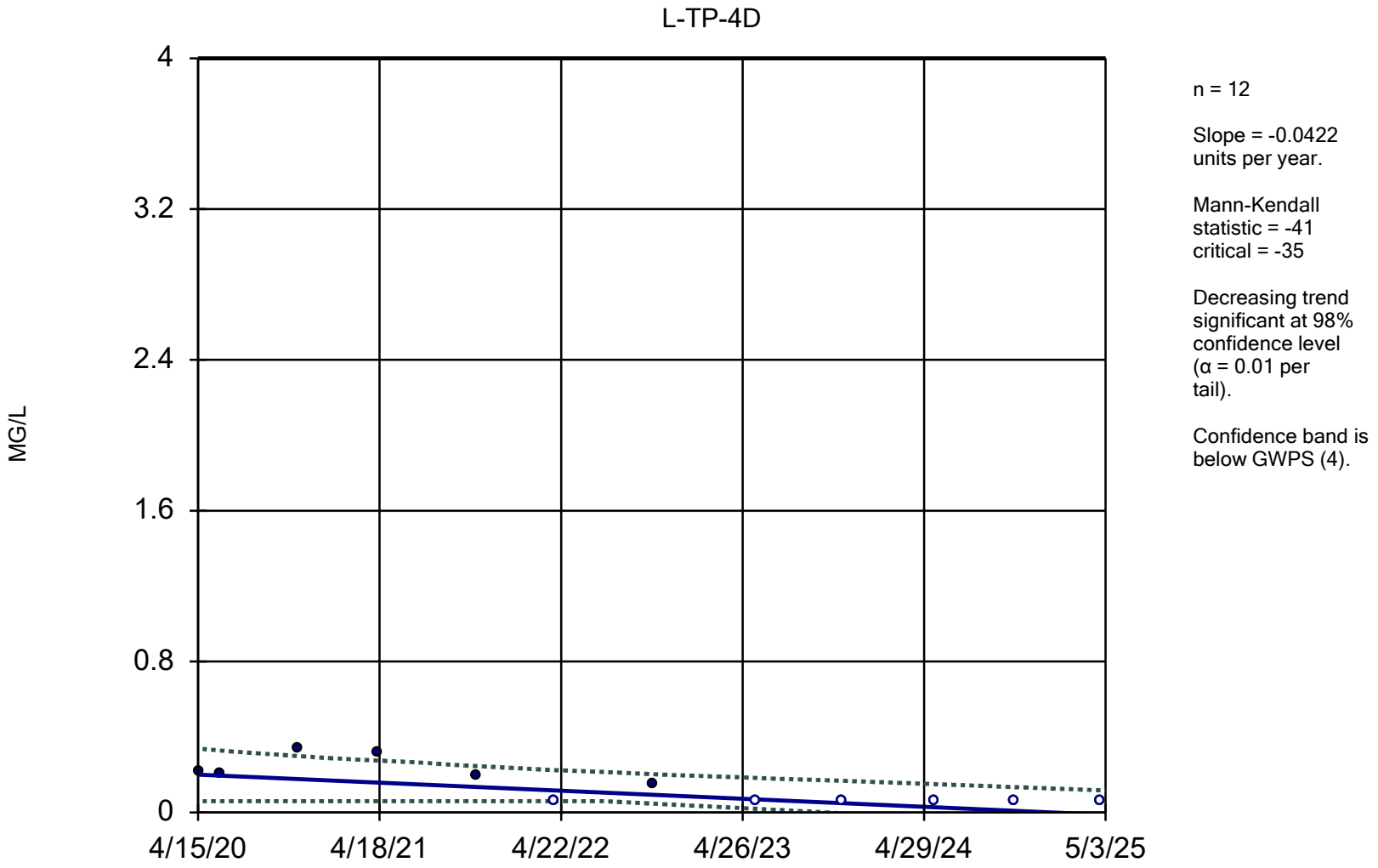
Confidence band is below GWPS (4).

Constituent: FLUORIDE, TOTAL Analysis Run 8/14/2025 1:24 PM

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Sen's Slope and 95% Confidence Band

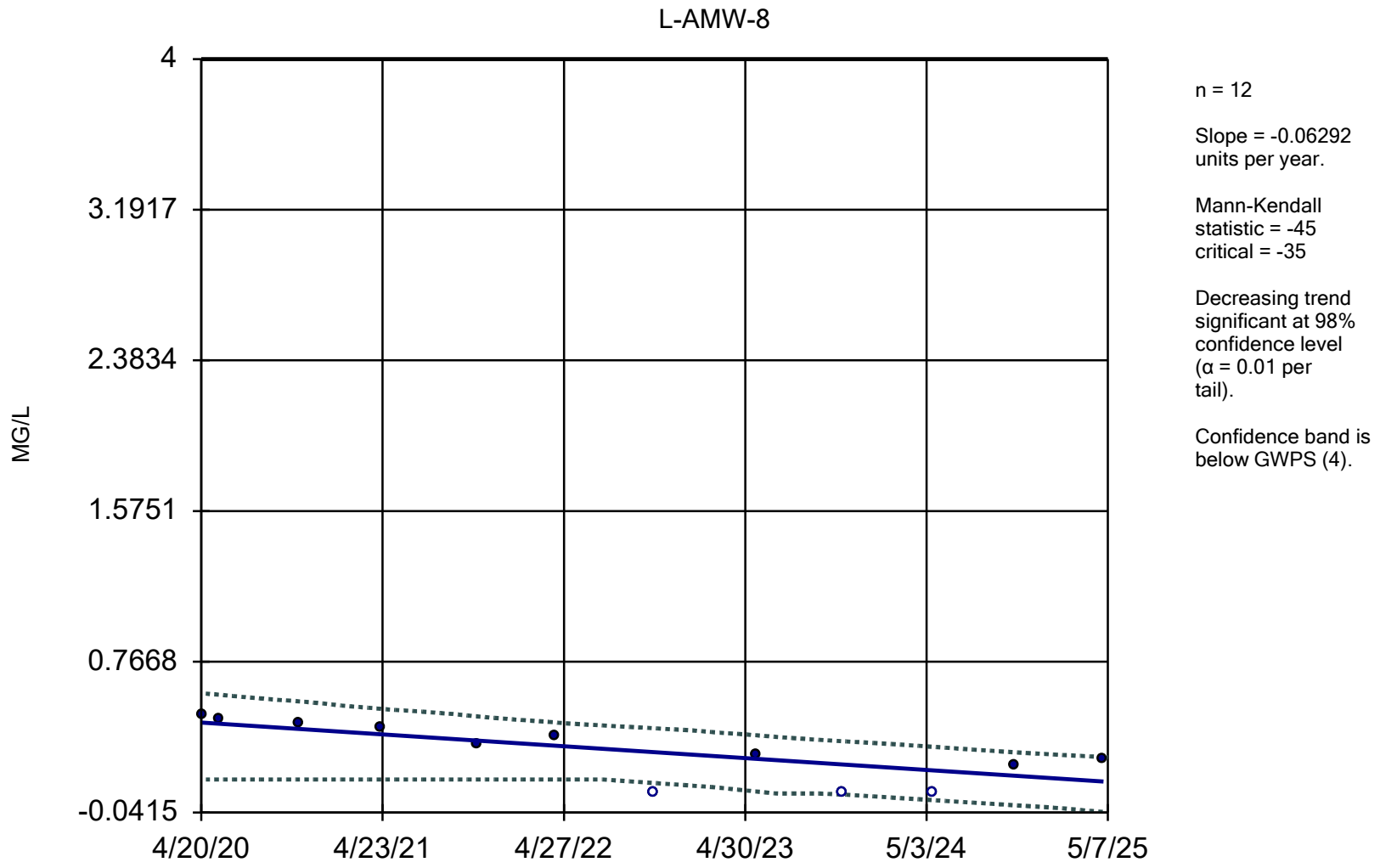


Constituent: FLUORIDE, TOTAL Analysis Run 8/14/2025 1:24 PM

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Sen's Slope and 95% Confidence Band



n = 12

Slope = -0.06292 units per year.

Mann-Kendall statistic = -45
critical = -35

Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

Confidence band is below GWPS (4).

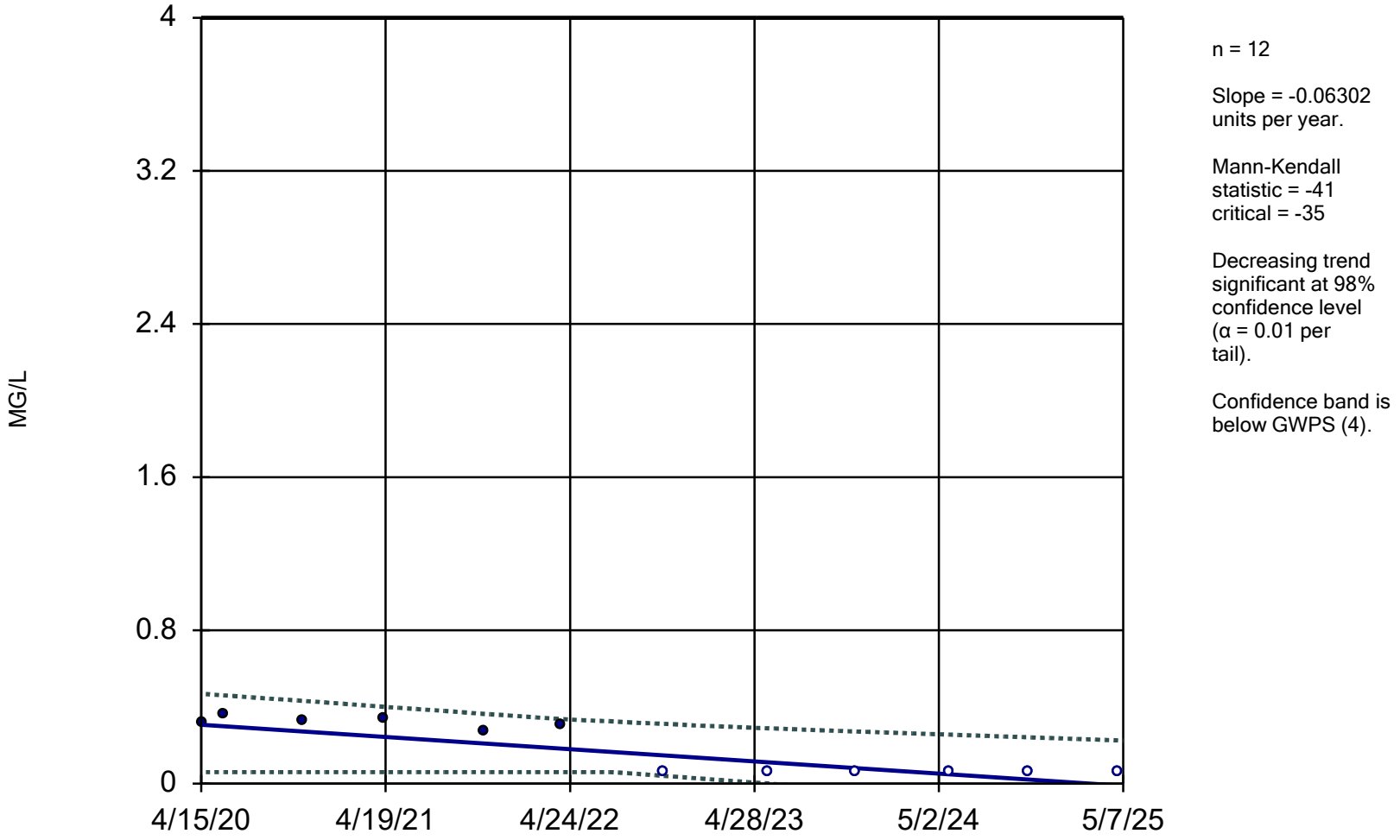
Constituent: FLUORIDE, TOTAL Analysis Run 8/14/2025 1:24 PM

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Sen's Slope and 95% Confidence Band

L-MW-34[D]



n = 12

Slope = -0.06302 units per year.

Mann-Kendall statistic = -41
critical = -35

Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

Confidence band is below GWPS (4).

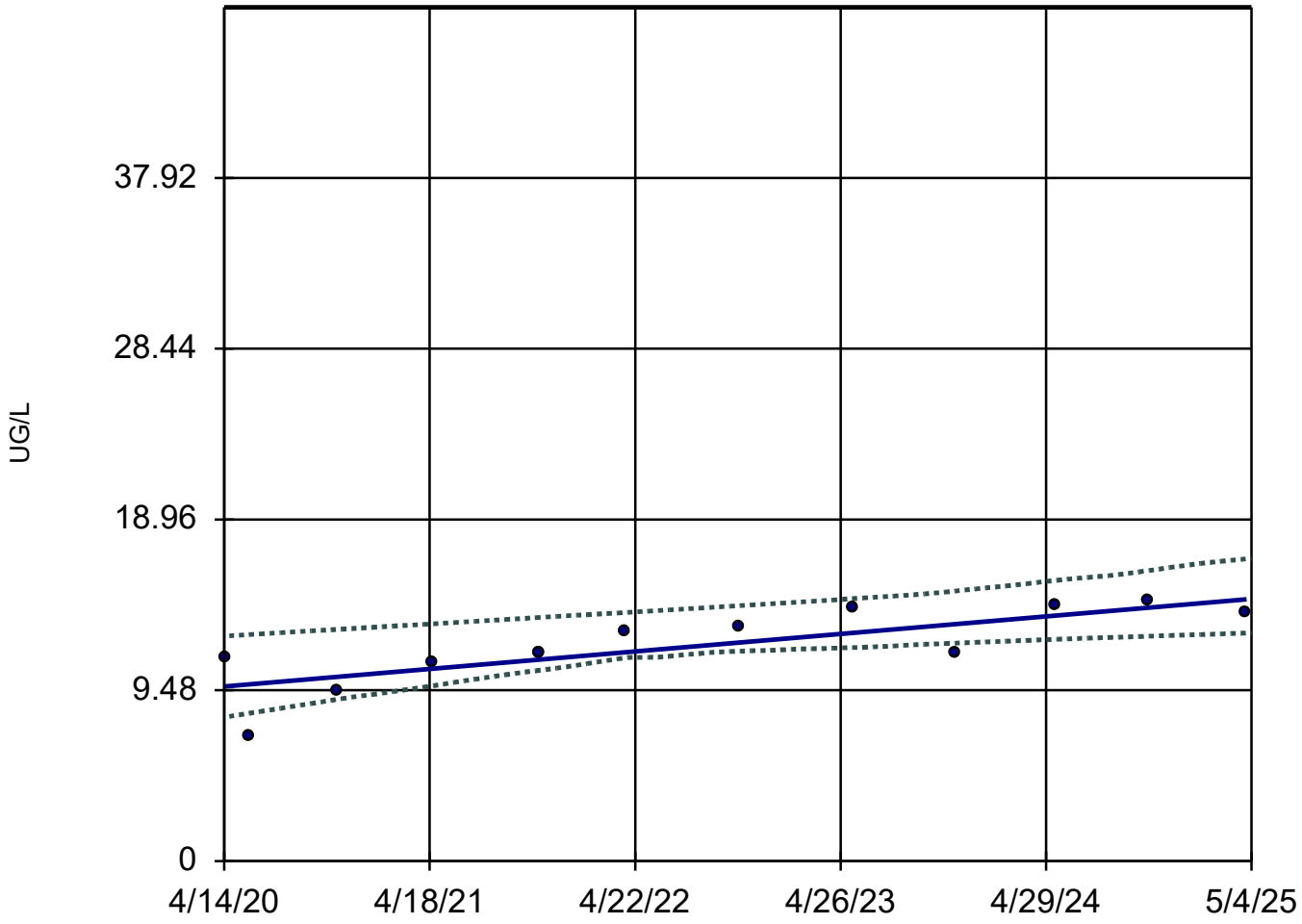
Constituent: FLUORIDE, TOTAL Analysis Run 8/14/2025 1:24 PM

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG

Sen's Slope and 95% Confidence Band

L-LMW-2S



n = 13

Slope = 0.9619 units per year.

Mann-Kendall statistic = 59
critical = 39

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Confidence band is below GWPS (47.4).

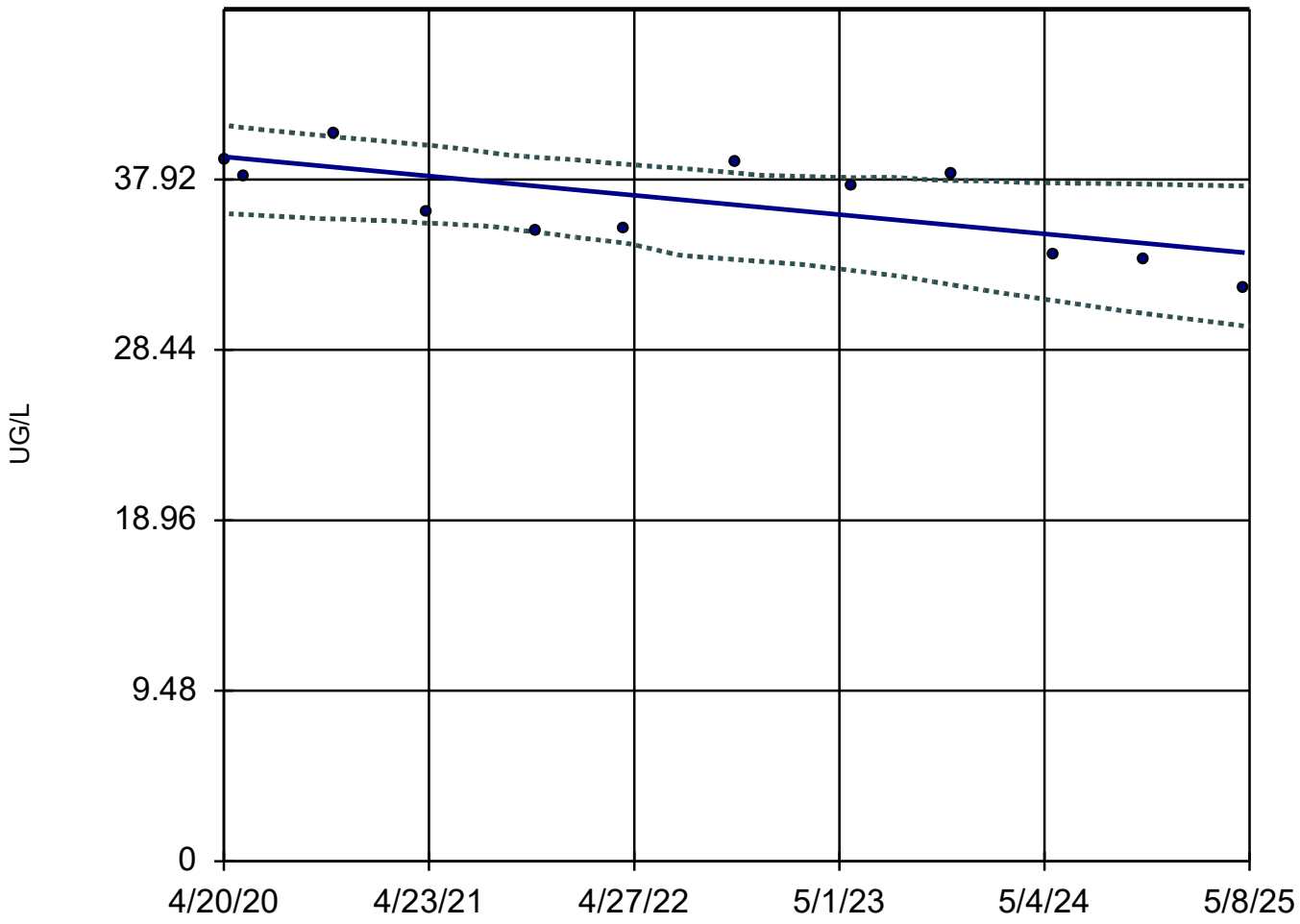
Constituent: LITHIUM, TOTAL Analysis Run 8/14/2025 1:24 PM

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG

Sen's Slope and 95% Confidence Band

L-AM-1D



n = 12

Slope = -1.062 units per year.

Mann-Kendall statistic = -36
critical = -35

Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

Confidence band is below GWPS (47.4).

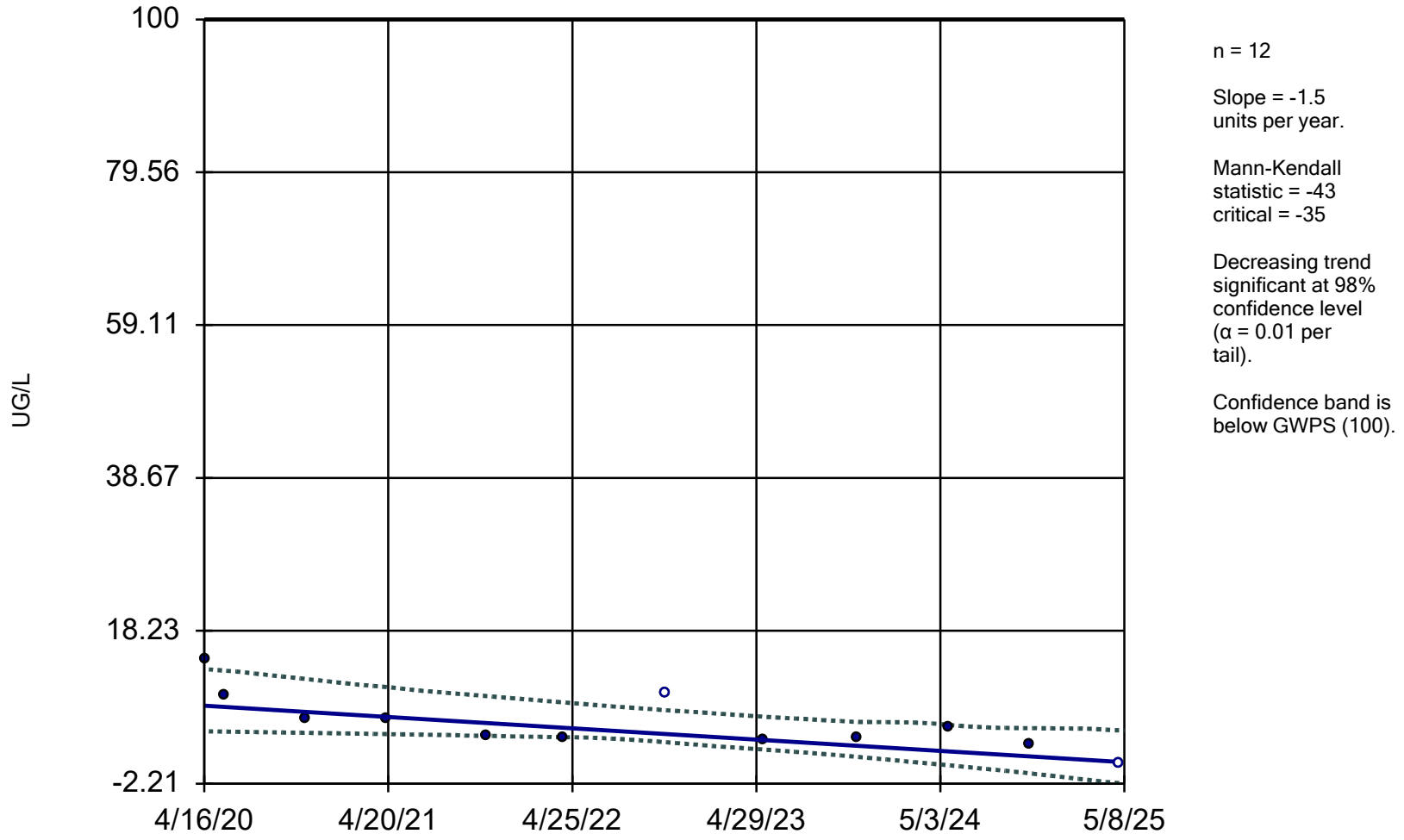
Constituent: LITHIUM, TOTAL Analysis Run 8/14/2025 1:24 PM

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Sen's Slope and 95% Confidence Band

L-LMW-1S



n = 12

Slope = -1.5 units per year.

Mann-Kendall statistic = -43
critical = -35

Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

Confidence band is below GWPS (100).

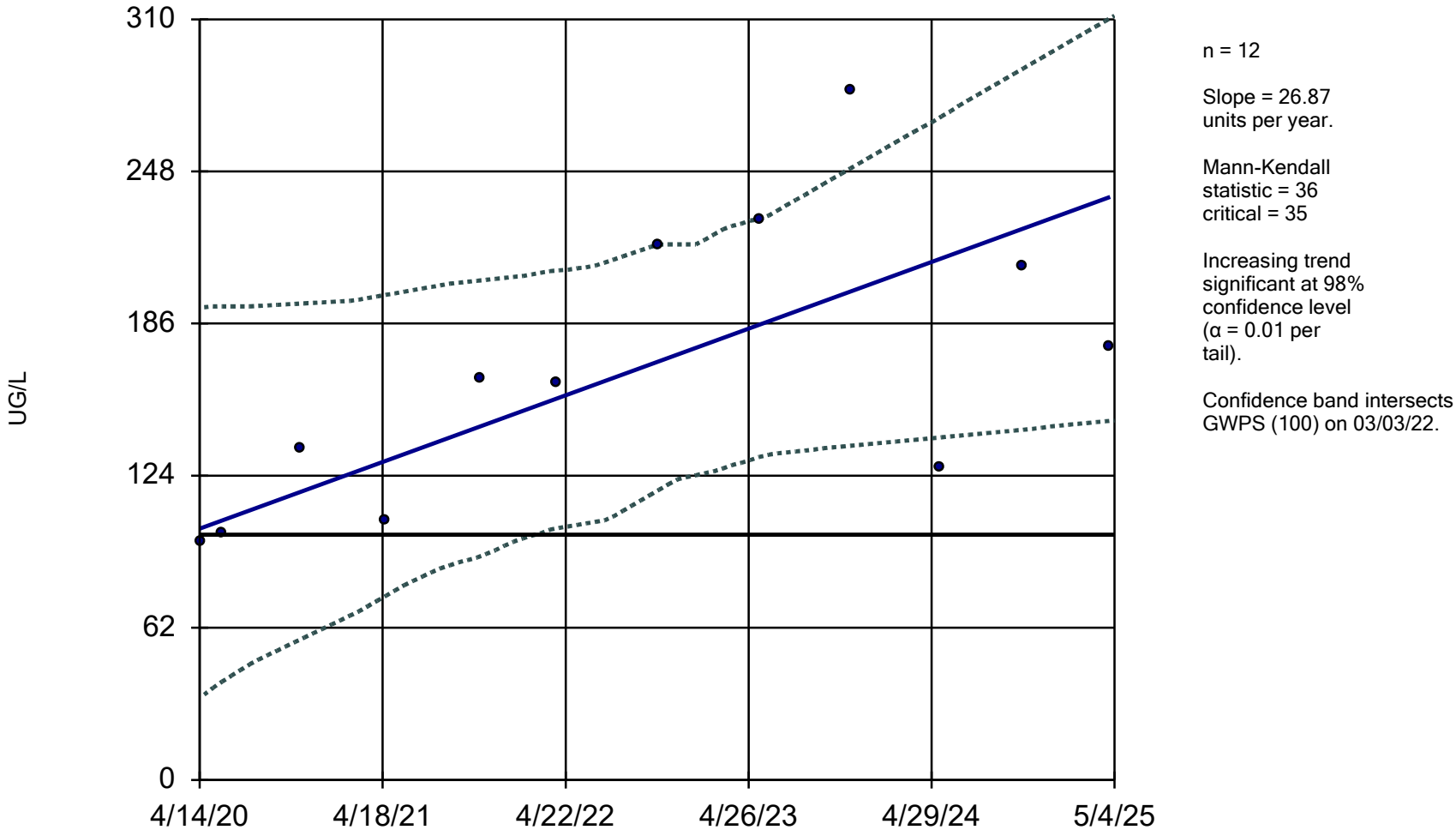
Constituent: MOLYBDENUM, TOTAL Analysis Run 8/14/2025 1:25 PM

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG

Sen's Slope and 95% Confidence Band

L-LMW-2S



n = 12

Slope = 26.87
units per year.

Mann-Kendall
statistic = 36
critical = 35

Increasing trend
significant at 98%
confidence level
(α = 0.01 per
tail).

Confidence band intersects
GWPS (100) on 03/03/22.

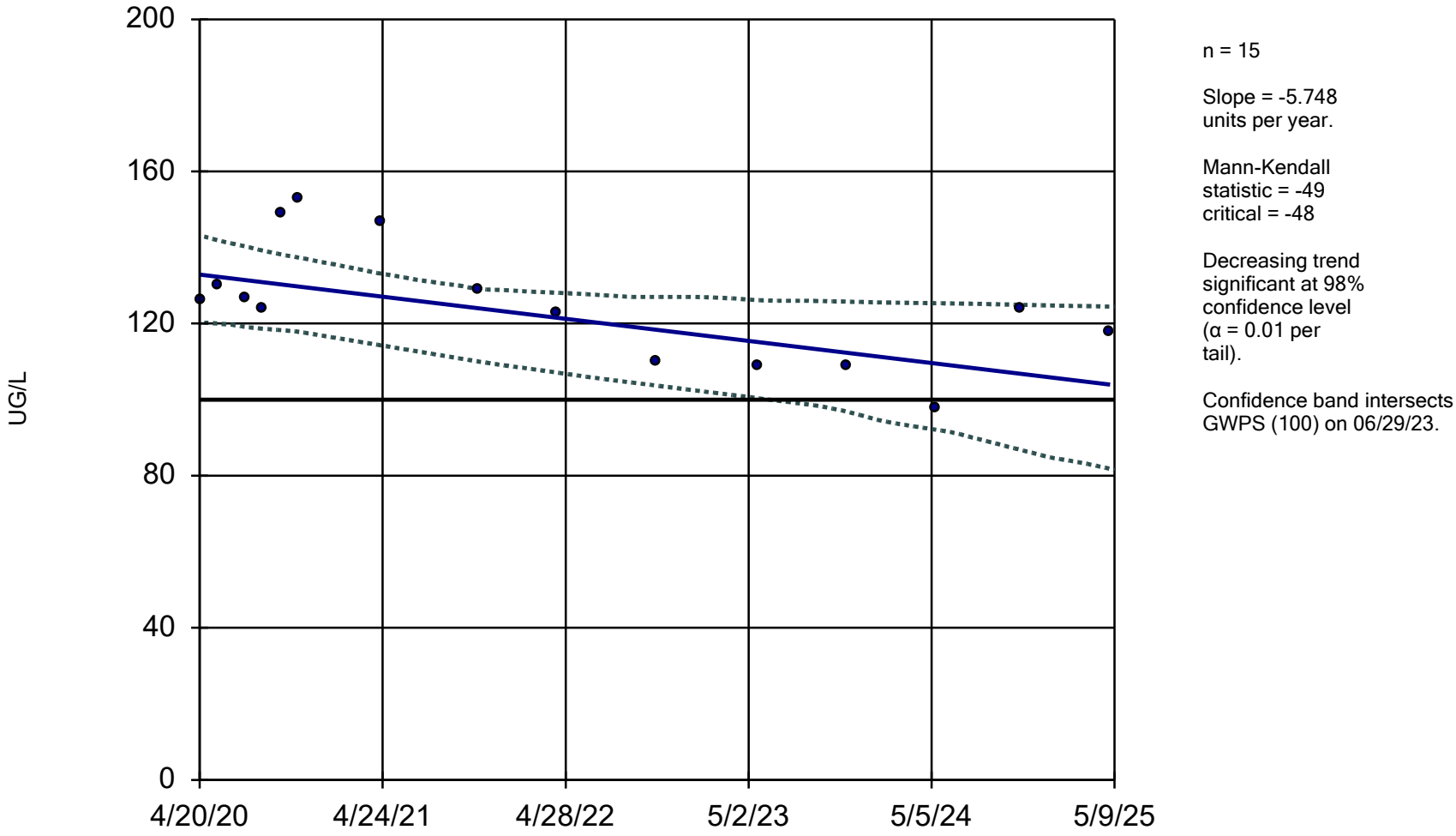
Constituent: MOLYBDENUM, TOTAL Analysis Run 8/14/2025 1:25 PM

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG

Sen's Slope and 95% Confidence Band

L-TP-2D



n = 15

Slope = -5.748 units per year.

Mann-Kendall statistic = -49
critical = -48

Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

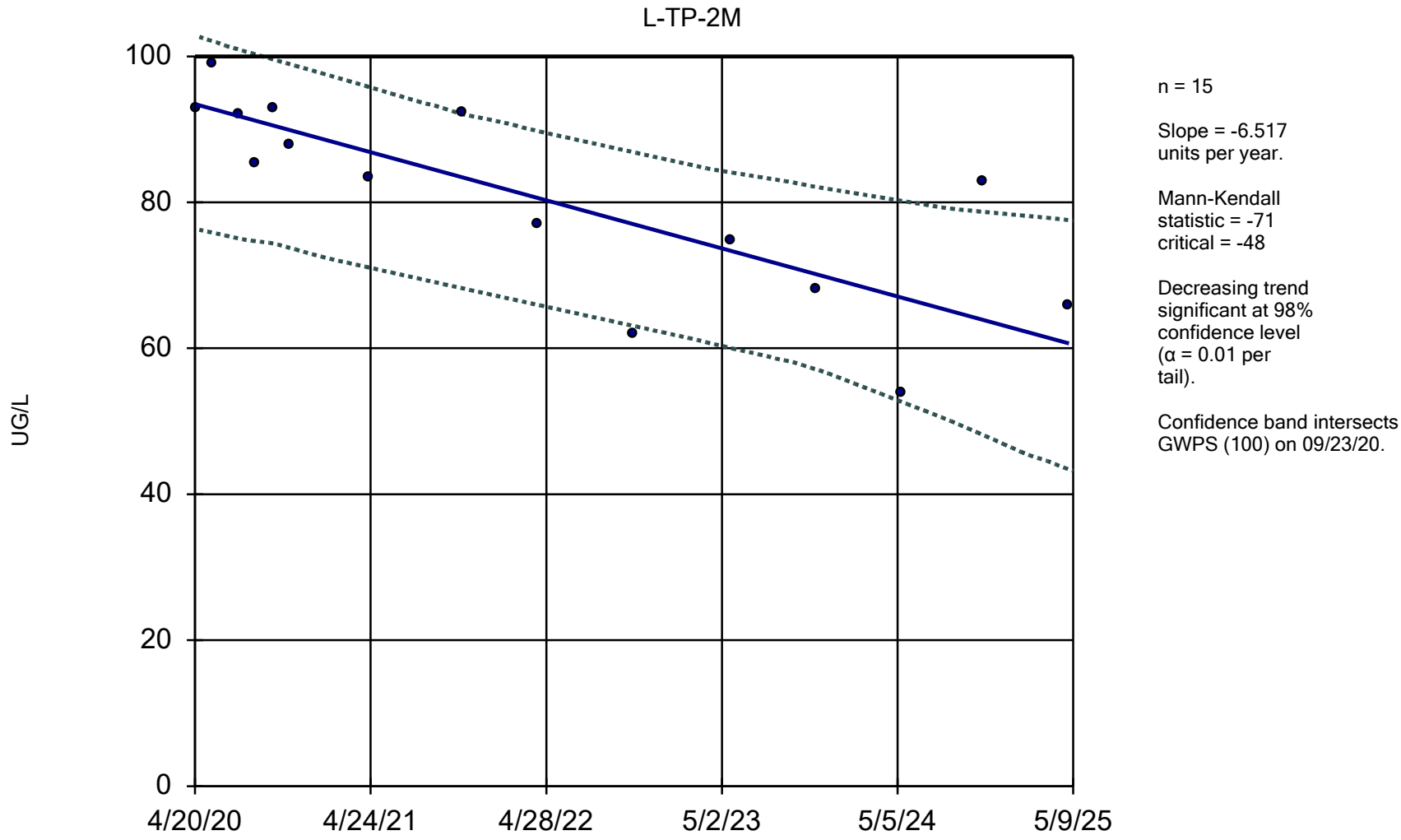
Confidence band intersects GWPS (100) on 06/29/23.

Constituent: MOLYBDENUM, TOTAL Analysis Run 8/14/2025 1:25 PM

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG

Sen's Slope and 95% Confidence Band



n = 15

Slope = -6.517 units per year.

Mann-Kendall statistic = -71 critical = -48

Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

Confidence band intersects GWPS (100) on 09/23/20.

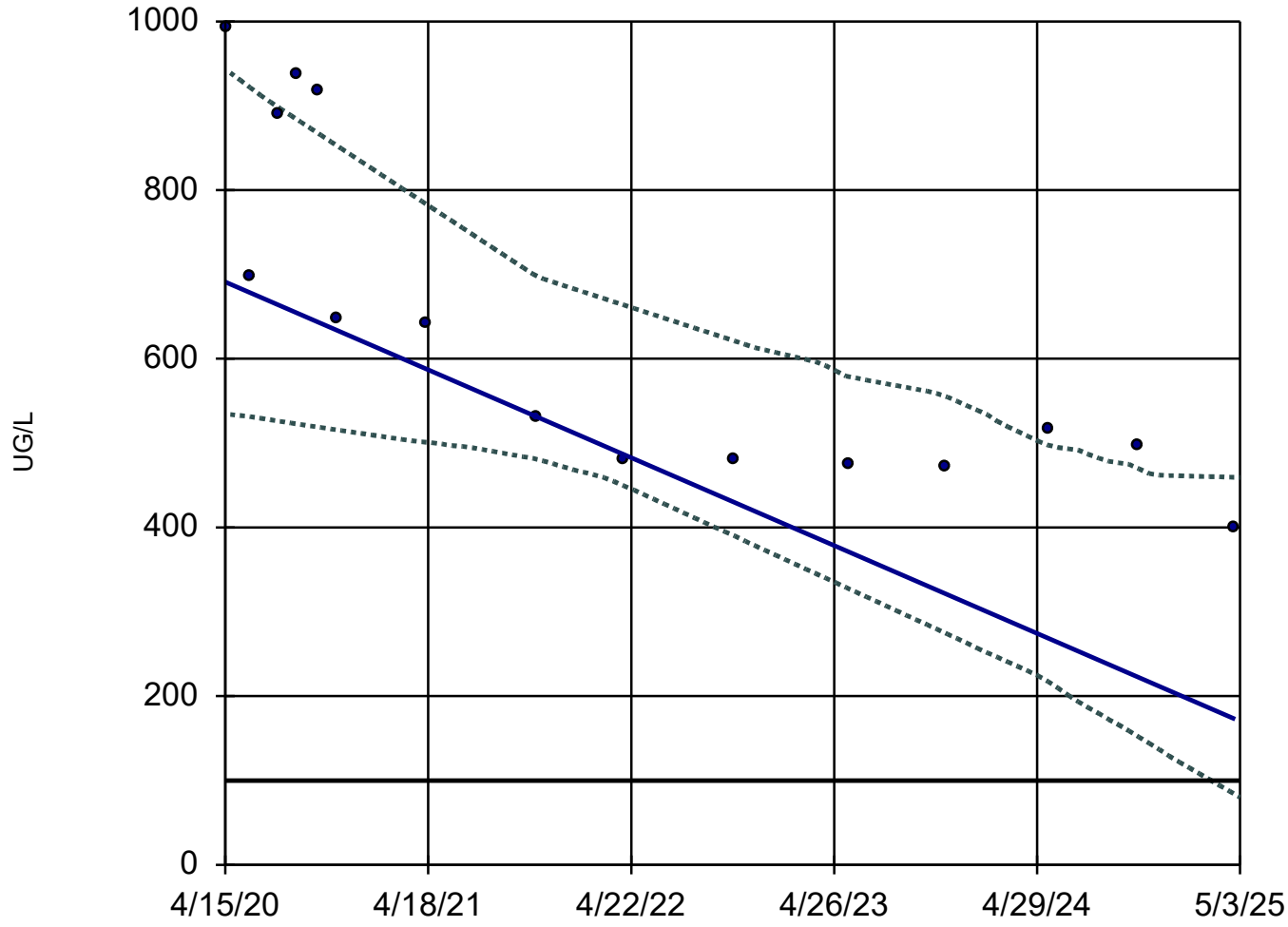
Constituent: MOLYBDENUM, TOTAL Analysis Run 8/14/2025 1:25 PM

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG

Sen's Slope and 95% Confidence Band

L-TP-3D



n = 15

Slope = -103.1 units per year.

Mann-Kendall statistic = -78
critical = -48

Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

Confidence band intersects GWPS (100) on 03/27/25.

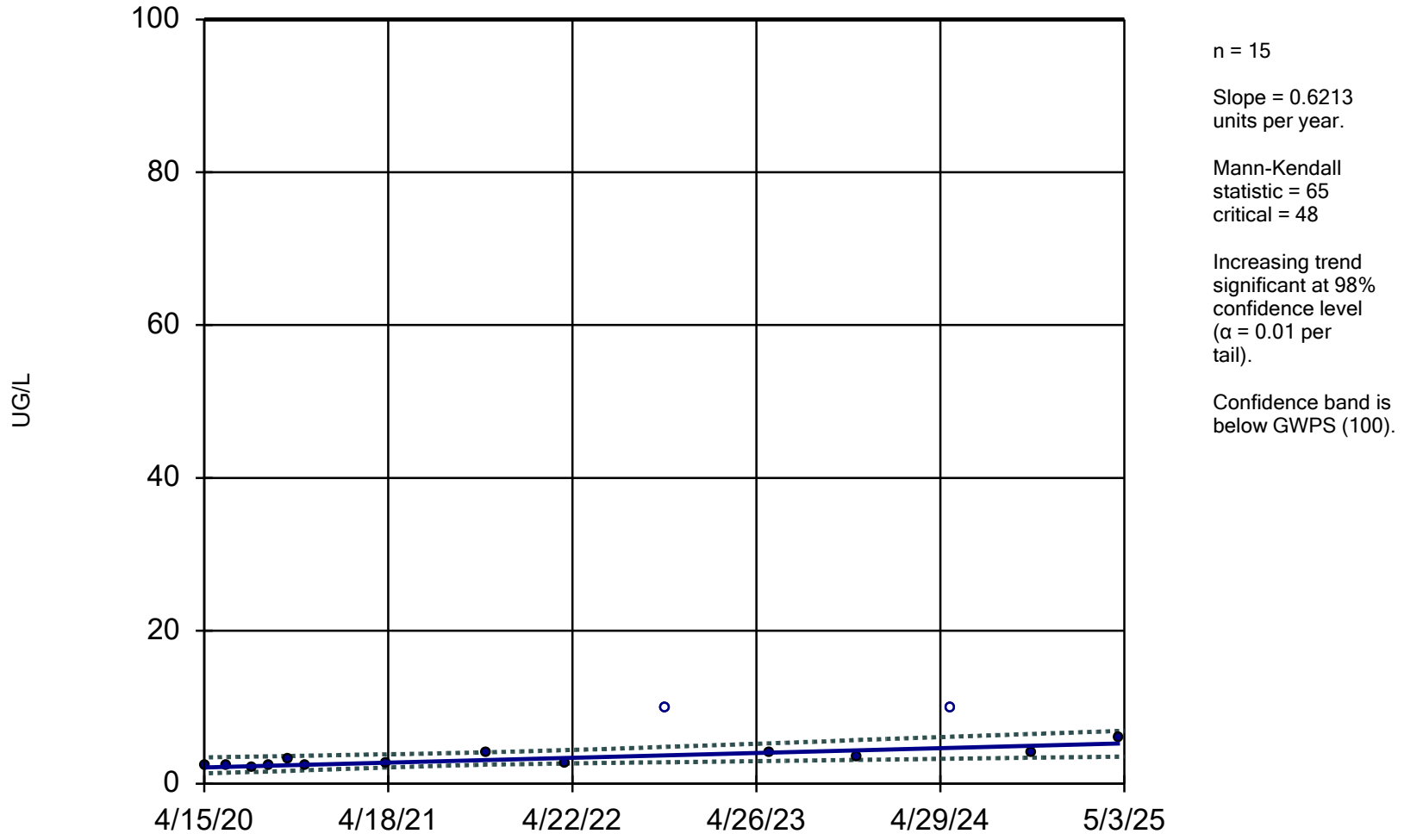
Constituent: MOLYBDENUM, TOTAL Analysis Run 8/14/2025 1:25 PM

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Sen's Slope and 95% Confidence Band

L-TP-4D



n = 15

Slope = 0.6213 units per year.

Mann-Kendall statistic = 65
critical = 48

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Confidence band is below GWPS (100).

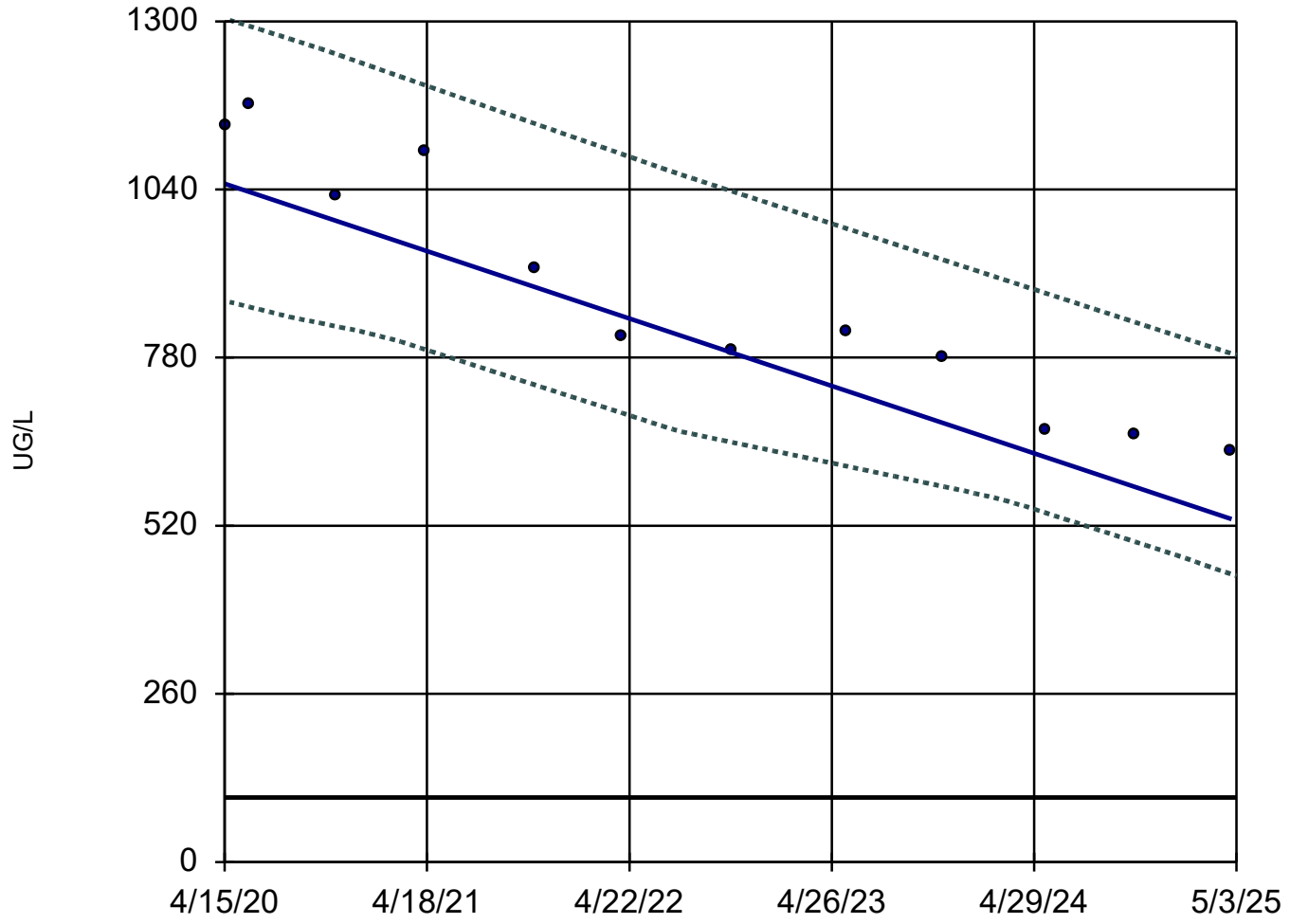
Constituent: MOLYBDENUM, TOTAL Analysis Run 8/14/2025 1:25 PM

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG

Sen's Slope and 95% Confidence Band

L-MW-33[D]



n = 12

Slope = -103.1 units per year.

Mann-Kendall statistic = -58 critical = -35

Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

Confidence band is above GWPS (100).

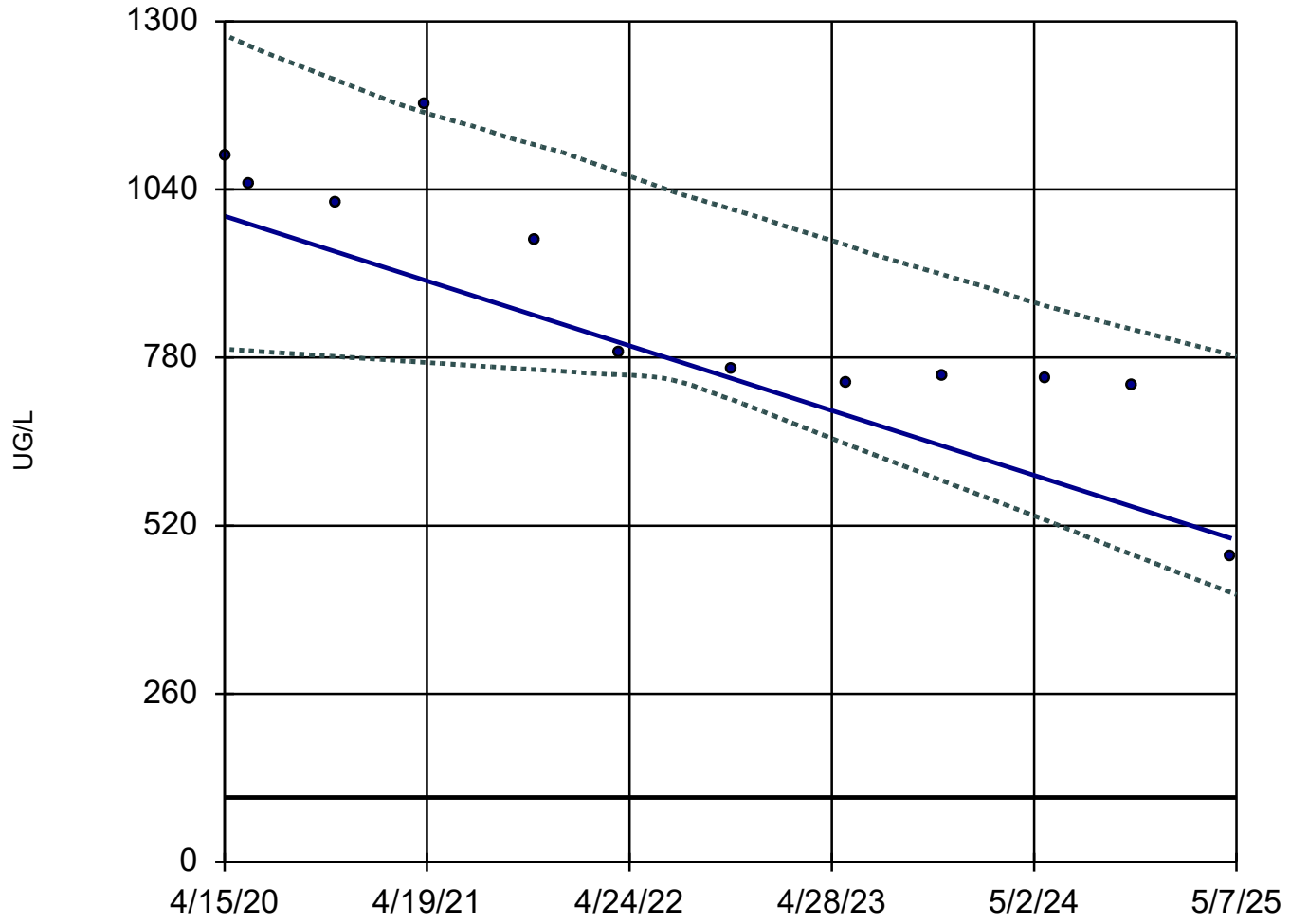
Constituent: MOLYBDENUM, TOTAL Analysis Run 8/14/2025 1:25 PM

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG

Sen's Slope and 95% Confidence Band

L-MW-34[D]



n = 12

Slope = -98.95 units per year.

Mann-Kendall statistic = -56 critical = -35

Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

Confidence band is above GWPS (100).

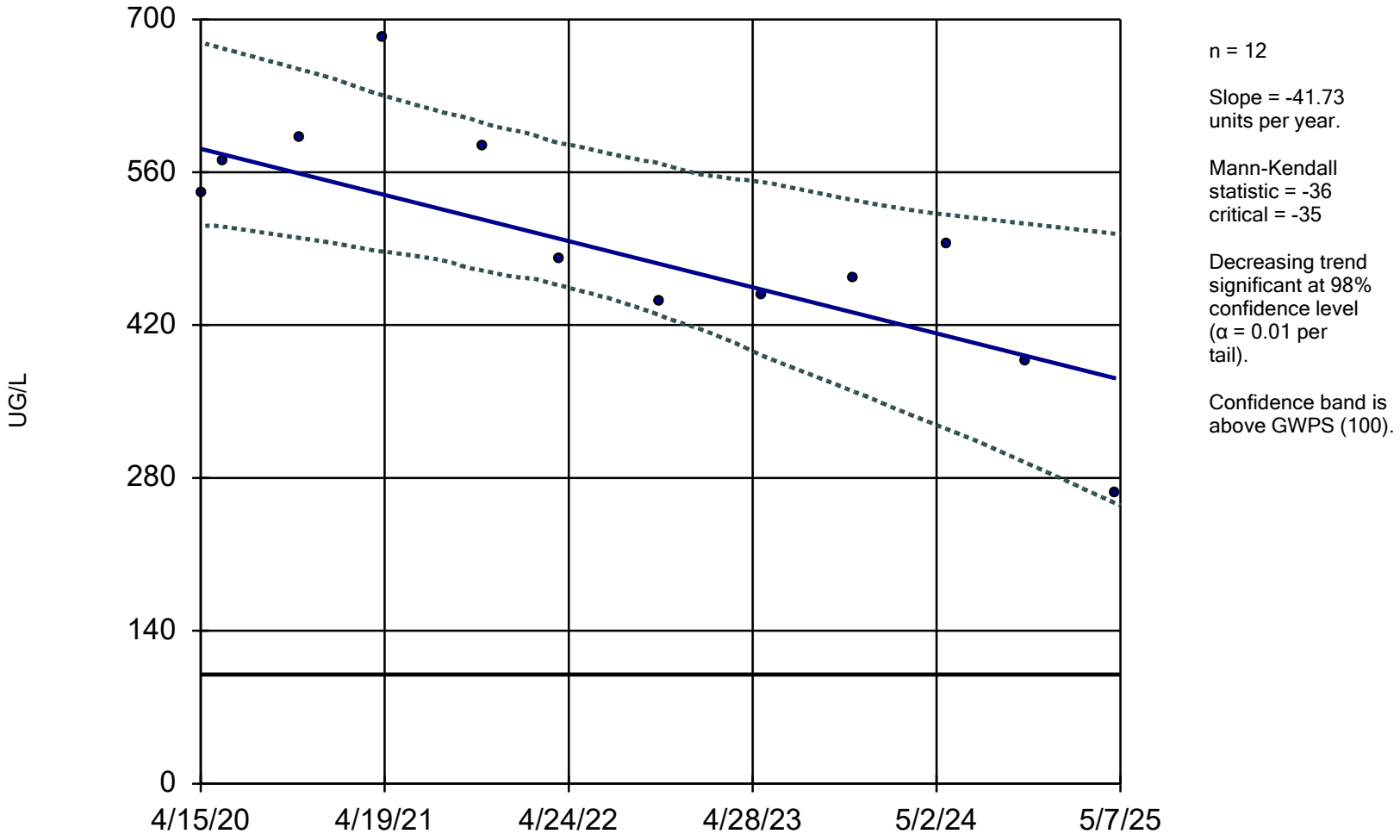
Constituent: MOLYBDENUM, TOTAL Analysis Run 8/14/2025 1:25 PM

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG

Sen's Slope and 95% Confidence Band

L-MW-35[D]



n = 12

Slope = -41.73 units per year.

Mann-Kendall statistic = -36
critical = -35

Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

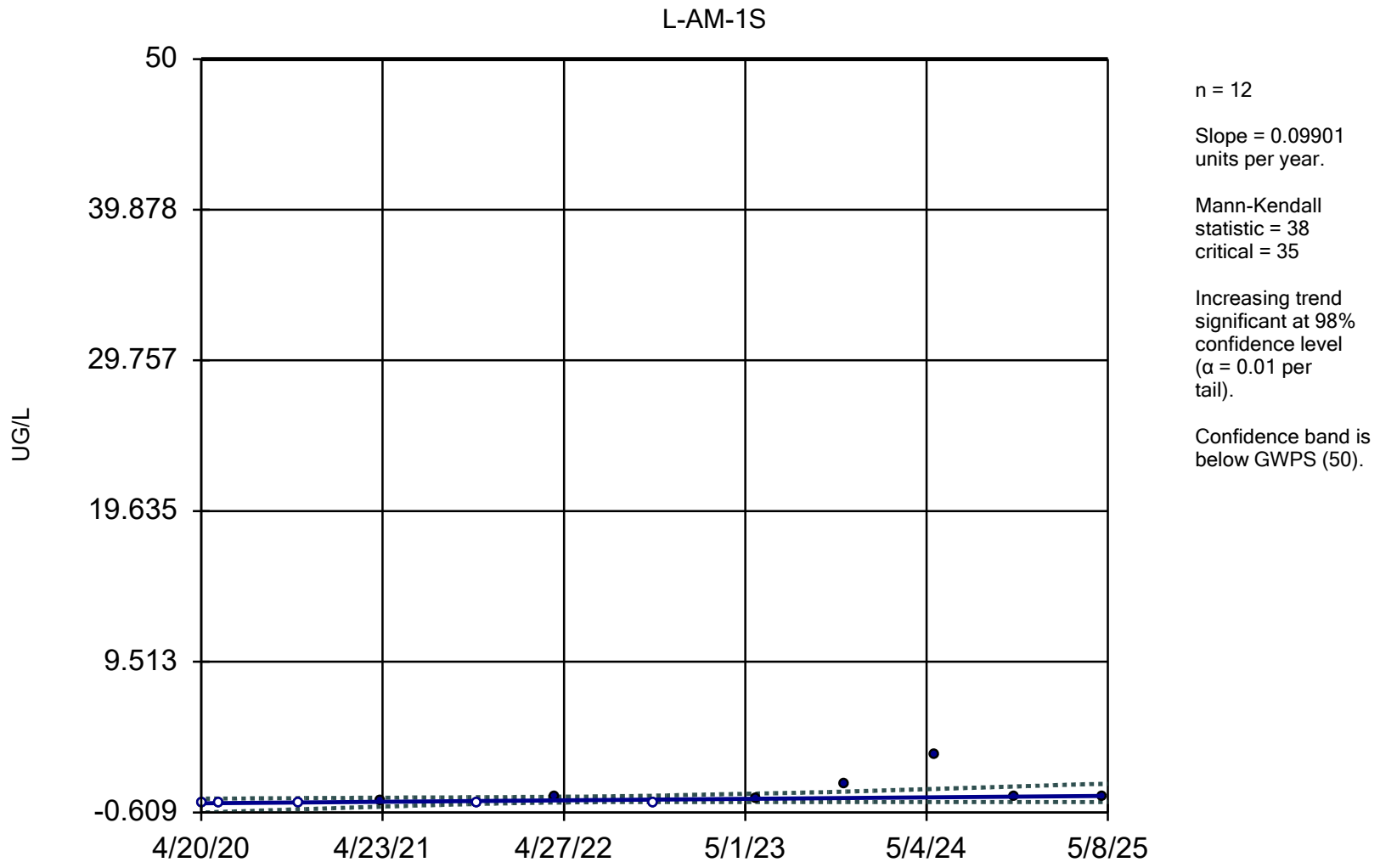
Confidence band is above GWPS (100).

Constituent: MOLYBDENUM, TOTAL Analysis Run 8/14/2025 1:25 PM

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Sen's Slope and 95% Confidence Band



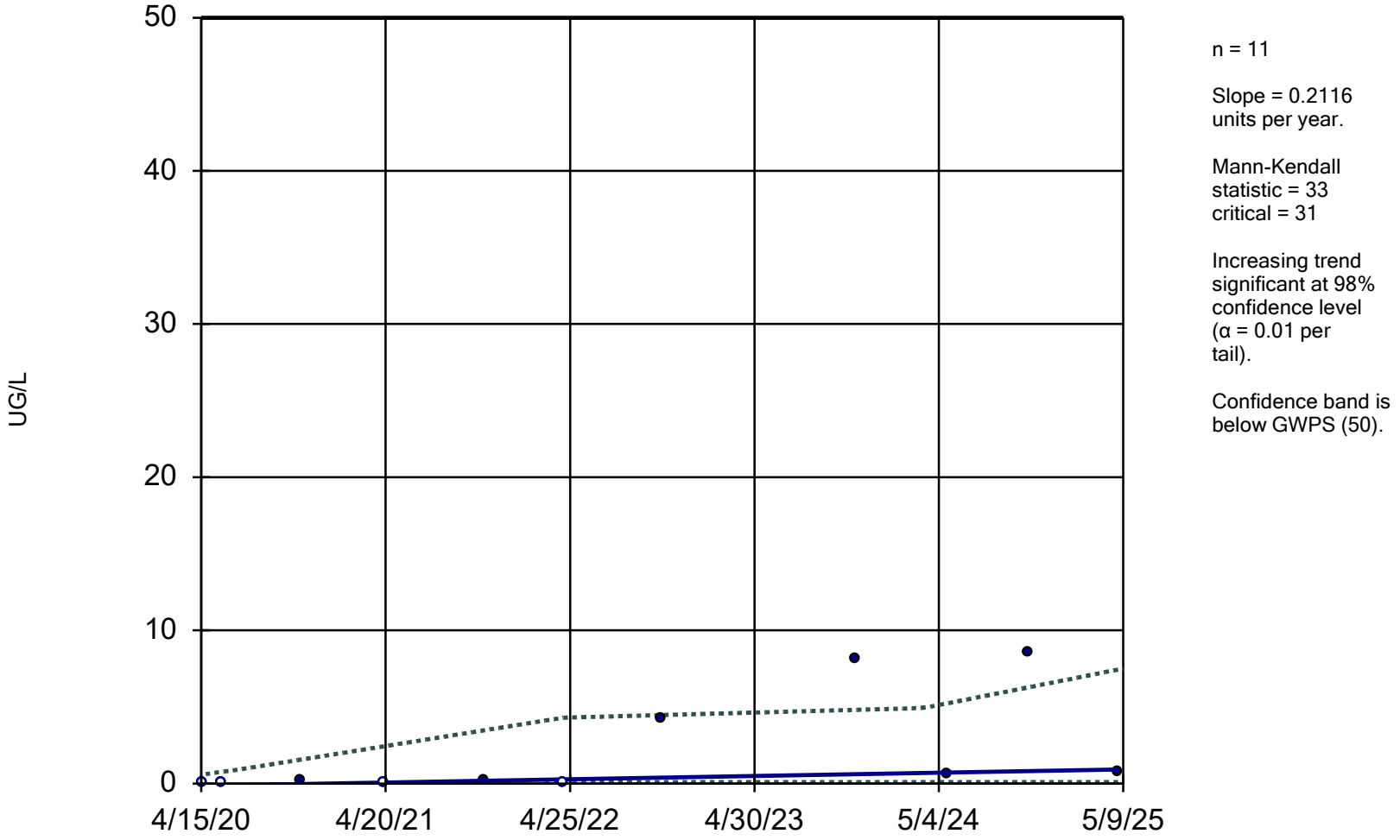
Constituent: SELENIUM, TOTAL Analysis Run 8/14/2025 1:25 PM

Labadie E.C. Client: Ameren Data: LEC DATA

Sanitas™ v.10.0.27 Software licensed to Rocksmith Geoengineering. UG
Hollow symbols indicate censored values.

Sen's Slope and 95% Confidence Band

L-S-1



n = 11

Slope = 0.2116 units per year.

Mann-Kendall statistic = 33
critical = 31

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Confidence band is below GWPS (50).

Constituent: SELENIUM, TOTAL Analysis Run 8/14/2025 1:26 PM

Labadie E.C. Client: Ameren Data: LEC DATA

Trend Test

Labadie E.C. Client: Ameren Data: LEC DATA Printed 8/14/2025, 1:27 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
ANTIMONY, TOTAL (UG/L)	L-LMW-1S	0.002475	27	27	No	10	100	n/a	n/a	0.02	NP
ANTIMONY, TOTAL (UG/L)	L-LMW-2S	0	-1	-27	No	10	70	n/a	n/a	0.02	NP
ANTIMONY, TOTAL (UG/L)	L-LMW-4S	0.002485	27	27	No	10	100	n/a	n/a	0.02	NP
ANTIMONY, TOTAL (UG/L)	L-LMW-7S	0.002473	27	27	No	10	100	n/a	n/a	0.02	NP
ANTIMONY, TOTAL (UG/L)	L-LMW-8S	0.002473	27	27	No	10	100	n/a	n/a	0.02	NP
ANTIMONY, TOTAL (UG/L)	L-MW-26	-0.00...	-5	-27	No	10	40	n/a	n/a	0.02	NP
ANTIMONY, TOTAL (UG/L)	L-AM-1D	0.002483	27	27	No	10	100	n/a	n/a	0.02	NP
ANTIMONY, TOTAL (UG/L)	L-AM-1S	0.002483	27	27	No	10	100	n/a	n/a	0.02	NP
ANTIMONY, TOTAL (UG/L)	L-TP-1D	0	-2	-27	No	10	80	n/a	n/a	0.02	NP
ANTIMONY, TOTAL (UG/L)	L-TP-2D	0.002561	18	27	No	10	80	n/a	n/a	0.02	NP
ANTIMONY, TOTAL (UG/L)	L-TP-2M	0.002481	27	27	No	10	100	n/a	n/a	0.02	NP
ANTIMONY, TOTAL (UG/L)	L-TP-3D	0.002485	27	27	No	10	100	n/a	n/a	0.02	NP
ANTIMONY, TOTAL (UG/L)	L-TP-3M	0.002485	27	27	No	10	100	n/a	n/a	0.02	NP
ANTIMONY, TOTAL (UG/L)	**L-TP-4D**	**0.003281**	**25**	**23**	**Yes**	**9**	**88.89**	**n/a**	**n/a**	**0.02**	**NP**
ANTIMONY, TOTAL (UG/L)	L-AMW-8	0.002387	20	23	No	9	100	n/a	n/a	0.02	NP
ANTIMONY, TOTAL (UG/L)	L-MW-24	0.01389	26	27	No	10	0	n/a	n/a	0.02	NP
ANTIMONY, TOTAL (UG/L)	L-MW-33[D]	0.002485	27	27	No	10	100	n/a	n/a	0.02	NP
ANTIMONY, TOTAL (UG/L)	L-MW-34[D]	0.002478	27	27	No	10	100	n/a	n/a	0.02	NP
ANTIMONY, TOTAL (UG/L)	L-MW-35[D]	0.002478	27	27	No	10	100	n/a	n/a	0.02	NP
ANTIMONY, TOTAL (UG/L)	L-S-1	0.002475	11	27	No	10	50	n/a	n/a	0.02	NP
ARSENIC, TOTAL (UG/L)	**L-LMW-1S**	**-1.931**	**-41**	**-35**	**Yes**	**12**	**0**	**n/a**	**n/a**	**0.02**	**NP**
ARSENIC, TOTAL (UG/L)	L-LMW-2S	-1.226	-32	-35	No	12	0	n/a	n/a	0.02	NP
ARSENIC, TOTAL (UG/L)	L-LMW-4S	1.002	23	35	No	12	0	n/a	n/a	0.02	NP
ARSENIC, TOTAL (UG/L)	L-LMW-7S	0.3294	8	35	No	12	0	n/a	n/a	0.02	NP
ARSENIC, TOTAL (UG/L)	L-LMW-8S	-2.489	-25	-35	No	12	0	n/a	n/a	0.02	NP
ARSENIC, TOTAL (UG/L)	L-MW-26	-0.01003	-17	-35	No	12	8.333	n/a	n/a	0.02	NP
ARSENIC, TOTAL (UG/L)	L-AM-1D	0.01095	0	35	No	12	0	n/a	n/a	0.02	NP
ARSENIC, TOTAL (UG/L)	L-AM-1S	-0.553	-20	-35	No	12	0	n/a	n/a	0.02	NP
ARSENIC, TOTAL (UG/L)	L-TP-1D	0.0338	18	35	No	12	0	n/a	n/a	0.02	NP
ARSENIC, TOTAL (UG/L)	L-TP-2D	-0.103	-17	-31	No	11	0	n/a	n/a	0.02	NP
ARSENIC, TOTAL (UG/L)	L-TP-2M	-0.03741	-28	-35	No	12	0	n/a	n/a	0.02	NP
ARSENIC, TOTAL (UG/L)	L-TP-3D	0.2366	18	35	No	12	0	n/a	n/a	0.02	NP
ARSENIC, TOTAL (UG/L)	L-TP-3M	-0.02187	-13	-35	No	12	0	n/a	n/a	0.02	NP
ARSENIC, TOTAL (UG/L)	L-TP-4D	-0.1357	-31	-35	No	12	0	n/a	n/a	0.02	NP
ARSENIC, TOTAL (UG/L)	L-AMW-8	0.01065	11	35	No	12	0	n/a	n/a	0.02	NP
ARSENIC, TOTAL (UG/L)	L-MW-24	0.0555	32	35	No	12	8.333	n/a	n/a	0.02	NP
ARSENIC, TOTAL (UG/L)	L-MW-33[D]	0	0	35	No	12	0	n/a	n/a	0.02	NP
ARSENIC, TOTAL (UG/L)	L-MW-34[D]	-0.05409	-21	-35	No	12	0	n/a	n/a	0.02	NP
ARSENIC, TOTAL (UG/L)	L-MW-35[D]	-0.00...	-9	-31	No	11	0	n/a	n/a	0.02	NP
ARSENIC, TOTAL (UG/L)	L-S-1	-0.00649	-4	-35	No	12	0	n/a	n/a	0.02	NP
BARIUM, TOTAL (UG/L)	L-LMW-1S	7.276	13	31	No	11	9.091	n/a	n/a	0.02	NP
BARIUM, TOTAL (UG/L)	L-LMW-2S	3.225	28	35	No	12	0	n/a	n/a	0.02	NP
BARIUM, TOTAL (UG/L)	L-LMW-4S	1.552	8	35	No	12	0	n/a	n/a	0.02	NP
BARIUM, TOTAL (UG/L)	**L-LMW-7S**	**-26.58**	**-44**	**-35**	**Yes**	**12**	**0**	**n/a**	**n/a**	**0.02**	**NP**
BARIUM, TOTAL (UG/L)	L-LMW-8S	6.923	14	35	No	12	0	n/a	n/a	0.02	NP
BARIUM, TOTAL (UG/L)	L-MW-26	-0.5075	-5	-35	No	12	0	n/a	n/a	0.02	NP
BARIUM, TOTAL (UG/L)	L-AM-1D	0.3182	4	35	No	12	0	n/a	n/a	0.02	NP
BARIUM, TOTAL (UG/L)	L-AM-1S	-4.205	-10	-35	No	12	0	n/a	n/a	0.02	NP
BARIUM, TOTAL (UG/L)	L-TP-1D	8.883	14	35	No	12	0	n/a	n/a	0.02	NP
BARIUM, TOTAL (UG/L)	L-TP-2D	0.3274	10	31	No	11	0	n/a	n/a	0.02	NP

Trend Test

Labadie E.C. Client: Ameren Data: LEC DATA Printed 8/14/2025, 1:27 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
BARIUM, TOTAL (UG/L)	**L-TP-2M**	**4.218**	**31**	**27**	**Yes**	**10**	**0**	**n/a**	**n/a**	**0.02**	**NP**
BARIUM, TOTAL (UG/L)	L-TP-3D	-0.5256	-6	-35	No	12	0	n/a	n/a	0.02	NP
BARIUM, TOTAL (UG/L)	L-TP-3M	-10.69	-30	-35	No	12	0	n/a	n/a	0.02	NP
BARIUM, TOTAL (UG/L)	**L-TP-4D**	**-12.35**	**-37**	**-35**	**Yes**	**12**	**0**	**n/a**	**n/a**	**0.02**	**NP**
BARIUM, TOTAL (UG/L)	L-AMW-8	2.718	26	31	No	11	0	n/a	n/a	0.02	NP
BARIUM, TOTAL (UG/L)	**L-MW-24**	**-18.42**	**-41**	**-35**	**Yes**	**12**	**0**	**n/a**	**n/a**	**0.02**	**NP**
BARIUM, TOTAL (UG/L)	L-MW-33[D]	9.157	35	35	No	12	0	n/a	n/a	0.02	NP
BARIUM, TOTAL (UG/L)	**L-MW-34[D]**	**5.483**	**43**	**35**	**Yes**	**12**	**0**	**n/a**	**n/a**	**0.02**	**NP**
BARIUM, TOTAL (UG/L)	L-MW-35[D]	2.046	12	35	No	12	0	n/a	n/a	0.02	NP
BARIUM, TOTAL (UG/L)	L-S-1	-1.272	-6	-35	No	12	0	n/a	n/a	0.02	NP
BERYLLIUM, TOTAL (UG/L)	L-LMW-1S	-0.03506	-18	-20	No	8	100	n/a	n/a	0.02	NP
BERYLLIUM, TOTAL (UG/L)	L-LMW-2S	-0.03754	-18	-20	No	8	100	n/a	n/a	0.02	NP
BERYLLIUM, TOTAL (UG/L)	L-LMW-4S	-0.03518	-18	-20	No	8	100	n/a	n/a	0.02	NP
BERYLLIUM, TOTAL (UG/L)	L-LMW-7S	-0.03504	-18	-20	No	8	100	n/a	n/a	0.02	NP
BERYLLIUM, TOTAL (UG/L)	L-LMW-8S	-0.01959	-11	-17	No	7	100	n/a	n/a	0.02	NP
BERYLLIUM, TOTAL (UG/L)	L-MW-26	-0.03948	-16	-20	No	8	100	n/a	n/a	0.02	NP
BERYLLIUM, TOTAL (UG/L)	L-AM-1D	-0.03516	-18	-20	No	8	100	n/a	n/a	0.02	NP
BERYLLIUM, TOTAL (UG/L)	L-AM-1S	-0.03516	-16	-20	No	8	87.5	n/a	n/a	0.02	NP
BERYLLIUM, TOTAL (UG/L)	**L-TP-1D**	**-0.03518**	**-21**	**-20**	**Yes**	**8**	**75**	**n/a**	**n/a**	**0.02**	**NP**
BERYLLIUM, TOTAL (UG/L)	L-TP-2D	-0.03514	-18	-20	No	8	87.5	n/a	n/a	0.02	NP
BERYLLIUM, TOTAL (UG/L)	L-TP-2M	-0.02413	-7	-20	No	8	62.5	n/a	n/a	0.02	NP
BERYLLIUM, TOTAL (UG/L)	L-TP-3D	-0.03759	-18	-20	No	8	100	n/a	n/a	0.02	NP
BERYLLIUM, TOTAL (UG/L)	L-TP-3M	-0.03759	-18	-20	No	8	87.5	n/a	n/a	0.02	NP
BERYLLIUM, TOTAL (UG/L)	L-TP-4D	-0.03759	-18	-20	No	8	100	n/a	n/a	0.02	NP
BERYLLIUM, TOTAL (UG/L)	L-AMW-8	-0.03518	-18	-20	No	8	100	n/a	n/a	0.02	NP
BERYLLIUM, TOTAL (UG/L)	L-MW-24	-0.03756	-18	-20	No	8	100	n/a	n/a	0.02	NP
BERYLLIUM, TOTAL (UG/L)	L-MW-33[D]	-0.03756	-18	-20	No	8	100	n/a	n/a	0.02	NP
BERYLLIUM, TOTAL (UG/L)	L-MW-34[D]	-0.03756	-14	-20	No	8	100	n/a	n/a	0.02	NP
BERYLLIUM, TOTAL (UG/L)	L-MW-35[D]	-0.03756	-20	-20	No	8	87.5	n/a	n/a	0.02	NP
BERYLLIUM, TOTAL (UG/L)	L-S-1	-0.03504	-18	-20	No	8	100	n/a	n/a	0.02	NP
CADMIUM, TOTAL (UG/L)	L-LMW-1S	0	1	20	No	8	62.5	n/a	n/a	0.02	NP
CADMIUM, TOTAL (UG/L)	L-LMW-2S	0.005148	3	20	No	8	75	n/a	n/a	0.02	NP
CADMIUM, TOTAL (UG/L)	L-LMW-4S	0.008142	14	20	No	8	25	n/a	n/a	0.02	NP
CADMIUM, TOTAL (UG/L)	L-LMW-7S	0.007865	9	20	No	8	25	n/a	n/a	0.02	NP
CADMIUM, TOTAL (UG/L)	L-LMW-8S	0	0	20	No	8	37.5	n/a	n/a	0.02	NP
CADMIUM, TOTAL (UG/L)	L-MW-26	-0.05048	-18	-20	No	8	62.5	n/a	n/a	0.02	NP
CADMIUM, TOTAL (UG/L)	L-AM-1D	0.006726	5	20	No	8	25	n/a	n/a	0.02	NP
CADMIUM, TOTAL (UG/L)	L-AM-1S	-0.00...	-1	-20	No	8	50	n/a	n/a	0.02	NP
CADMIUM, TOTAL (UG/L)	L-TP-1D	-0.00...	-16	-20	No	8	100	n/a	n/a	0.02	NP
CADMIUM, TOTAL (UG/L)	L-TP-2D	-0.00...	-5	-20	No	8	62.5	n/a	n/a	0.02	NP
CADMIUM, TOTAL (UG/L)	L-TP-2M	-0.00...	-16	-20	No	8	100	n/a	n/a	0.02	NP
CADMIUM, TOTAL (UG/L)	L-TP-3D	0.001242	2	20	No	8	0	n/a	n/a	0.02	NP
CADMIUM, TOTAL (UG/L)	L-TP-3M	0.008042	13	20	No	8	0	n/a	n/a	0.02	NP
CADMIUM, TOTAL (UG/L)	L-TP-4D	-0.00...	-16	-20	No	8	100	n/a	n/a	0.02	NP
CADMIUM, TOTAL (UG/L)	L-AMW-8	0	4	20	No	8	12.5	n/a	n/a	0.02	NP
CADMIUM, TOTAL (UG/L)	L-MW-24	-0.00...	-12	-20	No	8	75	n/a	n/a	0.02	NP
CADMIUM, TOTAL (UG/L)	L-MW-33[D]	-0.00...	-12	-20	No	8	0	n/a	n/a	0.02	NP
CADMIUM, TOTAL (UG/L)	L-MW-34[D]	-0.01981	-14	-20	No	8	0	n/a	n/a	0.02	NP
CADMIUM, TOTAL (UG/L)	L-MW-35[D]	-0.01637	-11	-20	No	8	12.5	n/a	n/a	0.02	NP
CADMIUM, TOTAL (UG/L)	L-S-1	0.02013	12	20	No	8	50	n/a	n/a	0.02	NP

Trend Test

Labadie E.C. Client: Ameren Data: LEC DATA Printed 8/14/2025, 1:27 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
CHROMIUM, TOTAL (UG/L)	L-LMW-1S	0.01129	9	31	No	11	45.45	n/a	n/a	0.02	NP
CHROMIUM, TOTAL (UG/L)	L-LMW-2S	0.03177	15	27	No	10	60	n/a	n/a	0.02	NP
CHROMIUM, TOTAL (UG/L)	L-LMW-4S	0.05958	28	31	No	11	36.36	n/a	n/a	0.02	NP
CHROMIUM, TOTAL (UG/L)	L-LMW-7S	0.01952	11	31	No	11	54.55	n/a	n/a	0.02	NP
CHROMIUM, TOTAL (UG/L)	L-LMW-8S	0.008111	10	31	No	11	81.82	n/a	n/a	0.02	NP
CHROMIUM, TOTAL (UG/L)	L-MW-26	0.1027	29	31	No	11	63.64	n/a	n/a	0.02	NP
CHROMIUM, TOTAL (UG/L)	L-AM-1D	0.04514	16	31	No	11	18.18	n/a	n/a	0.02	NP
CHROMIUM, TOTAL (UG/L)	L-AM-1S	0.02934	14	31	No	11	36.36	n/a	n/a	0.02	NP
CHROMIUM, TOTAL (UG/L)	L-TP-1D	0.07071	29	31	No	11	36.36	n/a	n/a	0.02	NP
CHROMIUM, TOTAL (UG/L)	L-TP-2D	0.06386	27	31	No	11	45.45	n/a	n/a	0.02	NP
CHROMIUM, TOTAL (UG/L)	**L-TP-2M**	**0.06912**	**40**	**31**	**Yes**	**11**	**36.36**	**n/a**	**n/a**	**0.02**	**NP**
CHROMIUM, TOTAL (UG/L)	L-TP-3D	0.01003	11	31	No	11	45.45	n/a	n/a	0.02	NP
CHROMIUM, TOTAL (UG/L)	L-TP-3M	0.02355	19	31	No	11	45.45	n/a	n/a	0.02	NP
CHROMIUM, TOTAL (UG/L)	L-TP-4D	0.02423	16	31	No	11	54.55	n/a	n/a	0.02	NP
CHROMIUM, TOTAL (UG/L)	L-AMW-8	0.01318	7	31	No	11	36.36	n/a	n/a	0.02	NP
CHROMIUM, TOTAL (UG/L)	L-MW-24	0.08041	27	31	No	11	45.45	n/a	n/a	0.02	NP
CHROMIUM, TOTAL (UG/L)	L-MW-33[D]	0.06925	20	27	No	10	70	n/a	n/a	0.02	NP
CHROMIUM, TOTAL (UG/L)	L-MW-34[D]	0.03594	11	31	No	11	45.45	n/a	n/a	0.02	NP
CHROMIUM, TOTAL (UG/L)	L-MW-35[D]	0.1058	24	31	No	11	54.55	n/a	n/a	0.02	NP
CHROMIUM, TOTAL (UG/L)	L-S-1	0.0284	8	27	No	10	40	n/a	n/a	0.02	NP
COBALT, TOTAL (UG/L)	L-LMW-1S	-0.00...	-6	-23	No	9	77.78	n/a	n/a	0.02	NP
COBALT, TOTAL (UG/L)	L-LMW-2S	0	-2	-23	No	9	100	n/a	n/a	0.02	NP
COBALT, TOTAL (UG/L)	L-LMW-4S	-0.06322	-6	-23	No	9	33.33	n/a	n/a	0.02	NP
COBALT, TOTAL (UG/L)	L-LMW-7S	-0.7412	-21	-23	No	9	11.11	n/a	n/a	0.02	NP
COBALT, TOTAL (UG/L)	L-LMW-8S	-0.03483	-20	-23	No	9	77.78	n/a	n/a	0.02	NP
COBALT, TOTAL (UG/L)	L-MW-26	0	-2	-23	No	9	100	n/a	n/a	0.02	NP
COBALT, TOTAL (UG/L)	L-AM-1D	-0.02234	-12	-23	No	9	100	n/a	n/a	0.02	NP
COBALT, TOTAL (UG/L)	L-AM-1S	-0.5902	-16	-23	No	9	11.11	n/a	n/a	0.02	NP
COBALT, TOTAL (UG/L)	L-TP-1D	0	-5	-17	No	7	100	n/a	n/a	0.02	NP
COBALT, TOTAL (UG/L)	L-TP-2D	-0.02233	-12	-23	No	9	100	n/a	n/a	0.02	NP
COBALT, TOTAL (UG/L)	L-TP-2M	-0.02233	-12	-23	No	9	100	n/a	n/a	0.02	NP
COBALT, TOTAL (UG/L)	L-TP-3D	0	-2	-23	No	9	100	n/a	n/a	0.02	NP
COBALT, TOTAL (UG/L)	L-TP-3M	0	-2	-23	No	9	100	n/a	n/a	0.02	NP
COBALT, TOTAL (UG/L)	L-TP-4D	0	-2	-23	No	9	100	n/a	n/a	0.02	NP
COBALT, TOTAL (UG/L)	L-AMW-8	-0.02237	-12	-23	No	9	100	n/a	n/a	0.02	NP
COBALT, TOTAL (UG/L)	L-MW-24	0	-2	-23	No	9	100	n/a	n/a	0.02	NP
COBALT, TOTAL (UG/L)	L-MW-33[D]	0	-2	-23	No	9	100	n/a	n/a	0.02	NP
COBALT, TOTAL (UG/L)	L-MW-34[D]	0	-2	-20	No	8	100	n/a	n/a	0.02	NP
COBALT, TOTAL (UG/L)	L-MW-35[D]	0	-2	-20	No	8	100	n/a	n/a	0.02	NP
COBALT, TOTAL (UG/L)	L-S-1	-0.1206	-9	-23	No	9	44.44	n/a	n/a	0.02	NP
FLUORIDE, TOTAL (MG/L)	L-LMW-1S	-0.02507	-37	-53	No	16	31.25	n/a	n/a	0.02	NP
FLUORIDE, TOTAL (MG/L)	**L-LMW-2S**	**-0.0377**	**-42**	**-35**	**Yes**	**12**	**50**	**n/a**	**n/a**	**0.02**	**NP**
FLUORIDE, TOTAL (MG/L)	**L-LMW-4S**	**-0.04474**	**-42**	**-39**	**Yes**	**13**	**46.15**	**n/a**	**n/a**	**0.02**	**NP**
FLUORIDE, TOTAL (MG/L)	L-LMW-7S	-0.03461	-29	-39	No	13	46.15	n/a	n/a	0.02	NP
FLUORIDE, TOTAL (MG/L)	L-LMW-8S	-0.01619	-12	-48	No	15	26.67	n/a	n/a	0.02	NP
FLUORIDE, TOTAL (MG/L)	L-MW-26	-0.02097	-35	-39	No	13	61.54	n/a	n/a	0.02	NP
FLUORIDE, TOTAL (MG/L)	L-AM-1D	-0.04537	-31	-35	No	12	33.33	n/a	n/a	0.02	NP
FLUORIDE, TOTAL (MG/L)	L-AM-1S	-0.04085	-29	-35	No	12	58.33	n/a	n/a	0.02	NP
FLUORIDE, TOTAL (MG/L)	**L-TP-1D**	**-0.03714**	**-40**	**-35**	**Yes**	**12**	**50**	**n/a**	**n/a**	**0.02**	**NP**
FLUORIDE, TOTAL (MG/L)	L-TP-2D	-0.04085	-21	-35	No	12	8.333	n/a	n/a	0.02	NP

Trend Test

Labadie E.C. Client: Ameren Data: LEC DATA Printed 8/14/2025, 1:27 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
FLUORIDE, TOTAL (MG/L)	**L-TP-2M**	**-0.06791**	**-40**	**-35**	**Yes**	**12**	**25**	**n/a**	**n/a**	**0.02**	**NP**
FLUORIDE, TOTAL (MG/L)	L-TP-3D	-0.05517	-30	-35	No	12	58.33	n/a	n/a	0.02	NP
FLUORIDE, TOTAL (MG/L)	L-TP-3M	-0.03655	-28	-35	No	12	50	n/a	n/a	0.02	NP
FLUORIDE, TOTAL (MG/L)	**L-TP-4D**	**-0.0422**	**-41**	**-35**	**Yes**	**12**	**50**	**n/a**	**n/a**	**0.02**	**NP**
FLUORIDE, TOTAL (MG/L)	**L-AMW-8**	**-0.06292**	**-45**	**-35**	**Yes**	**12**	**25**	**n/a**	**n/a**	**0.02**	**NP**
FLUORIDE, TOTAL (MG/L)	L-MW-24	-0.02794	-26	-35	No	12	41.67	n/a	n/a	0.02	NP
FLUORIDE, TOTAL (MG/L)	L-MW-33[D]	-0.07177	-25	-35	No	12	50	n/a	n/a	0.02	NP
FLUORIDE, TOTAL (MG/L)	**L-MW-34[D]**	**-0.06302**	**-41**	**-35**	**Yes**	**12**	**50**	**n/a**	**n/a**	**0.02**	**NP**
FLUORIDE, TOTAL (MG/L)	L-MW-35[D]	-0.057	-30	-35	No	12	50	n/a	n/a	0.02	NP
FLUORIDE, TOTAL (MG/L)	L-S-1	-0.03561	-30	-31	No	11	54.55	n/a	n/a	0.02	NP
LEAD, TOTAL (UG/L)	L-LMW-1S	0	-9	-20	No	8	100	n/a	n/a	0.02	NP
LEAD, TOTAL (UG/L)	L-LMW-2S	0	-11	-20	No	8	100	n/a	n/a	0.02	NP
LEAD, TOTAL (UG/L)	L-LMW-4S	0	-9	-20	No	8	100	n/a	n/a	0.02	NP
LEAD, TOTAL (UG/L)	L-LMW-7S	0	-9	-17	No	7	100	n/a	n/a	0.02	NP
LEAD, TOTAL (UG/L)	L-LMW-8S	-0.09288	-14	-20	No	8	87.5	n/a	n/a	0.02	NP
LEAD, TOTAL (UG/L)	L-MW-26	-0.07647	-11	-17	No	7	100	n/a	n/a	0.02	NP
LEAD, TOTAL (UG/L)	L-AM-1D	0	-9	-17	No	7	100	n/a	n/a	0.02	NP
LEAD, TOTAL (UG/L)	L-AM-1S	0	-9	-17	No	7	100	n/a	n/a	0.02	NP
LEAD, TOTAL (UG/L)	L-TP-1D	0	-9	-20	No	8	100	n/a	n/a	0.02	NP
LEAD, TOTAL (UG/L)	L-TP-2D	0	-9	-20	No	8	100	n/a	n/a	0.02	NP
LEAD, TOTAL (UG/L)	L-TP-2M	-0.09321	-14	-20	No	8	87.5	n/a	n/a	0.02	NP
LEAD, TOTAL (UG/L)	L-TP-3D	0	-11	-20	No	8	100	n/a	n/a	0.02	NP
LEAD, TOTAL (UG/L)	L-TP-3M	-0.07583	-11	-17	No	7	100	n/a	n/a	0.02	NP
LEAD, TOTAL (UG/L)	L-TP-4D	-0.07583	-11	-17	No	7	100	n/a	n/a	0.02	NP
LEAD, TOTAL (UG/L)	L-AMW-8	0	-9	-20	No	8	100	n/a	n/a	0.02	NP
LEAD, TOTAL (UG/L)	L-MW-24	-0.07583	-11	-17	No	7	100	n/a	n/a	0.02	NP
LEAD, TOTAL (UG/L)	L-MW-33[D]	0	-11	-20	No	8	100	n/a	n/a	0.02	NP
LEAD, TOTAL (UG/L)	L-MW-34[D]	0	-11	-20	No	8	100	n/a	n/a	0.02	NP
LEAD, TOTAL (UG/L)	L-MW-35[D]	0	-11	-20	No	8	100	n/a	n/a	0.02	NP
LEAD, TOTAL (UG/L)	L-S-1	-0.0928	-14	-20	No	8	87.5	n/a	n/a	0.02	NP
LITHIUM, TOTAL (UG/L)	L-LMW-1S	-1.411	-23	-35	No	12	16.67	n/a	n/a	0.02	NP
LITHIUM, TOTAL (UG/L)	**L-LMW-2S**	**0.9619**	**59**	**39**	**Yes**	**13**	**0**	**n/a**	**n/a**	**0.02**	**NP**
LITHIUM, TOTAL (UG/L)	L-LMW-4S	0.3905	7	35	No	12	0	n/a	n/a	0.02	NP
LITHIUM, TOTAL (UG/L)	L-LMW-7S	-1.259	-16	-35	No	12	0	n/a	n/a	0.02	NP
LITHIUM, TOTAL (UG/L)	L-LMW-8S	-0.1239	-3	-31	No	11	9.091	n/a	n/a	0.02	NP
LITHIUM, TOTAL (UG/L)	L-MW-26	1.097	28	35	No	12	0	n/a	n/a	0.02	NP
LITHIUM, TOTAL (UG/L)	**L-AM-1D**	**-1.062**	**-36**	**-35**	**Yes**	**12**	**0**	**n/a**	**n/a**	**0.02**	**NP**
LITHIUM, TOTAL (UG/L)	L-AM-1S	0.6286	20	35	No	12	0	n/a	n/a	0.02	NP
LITHIUM, TOTAL (UG/L)	L-TP-1D	0.1515	8	31	No	11	0	n/a	n/a	0.02	NP
LITHIUM, TOTAL (UG/L)	L-TP-2D	-0.1236	-5	-35	No	12	0	n/a	n/a	0.02	NP
LITHIUM, TOTAL (UG/L)	L-TP-2M	0.2645	11	31	No	11	0	n/a	n/a	0.02	NP
LITHIUM, TOTAL (UG/L)	L-TP-3D	0.6836	19	35	No	12	0	n/a	n/a	0.02	NP
LITHIUM, TOTAL (UG/L)	L-TP-3M	-1.396	-31	-35	No	12	0	n/a	n/a	0.02	NP
LITHIUM, TOTAL (UG/L)	L-TP-4D	0.324	12	31	No	11	0	n/a	n/a	0.02	NP
LITHIUM, TOTAL (UG/L)	L-AMW-8	0.584	22	35	No	12	0	n/a	n/a	0.02	NP
LITHIUM, TOTAL (UG/L)	L-MW-24	-1.548	-30	-35	No	12	0	n/a	n/a	0.02	NP
LITHIUM, TOTAL (UG/L)	L-MW-33[D]	0.07033	7	27	No	10	0	n/a	n/a	0.02	NP
LITHIUM, TOTAL (UG/L)	L-MW-34[D]	0.5002	18	35	No	12	0	n/a	n/a	0.02	NP
LITHIUM, TOTAL (UG/L)	L-MW-35[D]	0.01252	1	35	No	12	0	n/a	n/a	0.02	NP
LITHIUM, TOTAL (UG/L)	L-S-1	0.8147	15	35	No	12	0	n/a	n/a	0.02	NP

Trend Test

Labadie E.C. Client: Ameren Data: LEC DATA Printed 8/14/2025, 1:27 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
MERCURY, TOTAL (UG/L)	L-LMW-1S	0	3	20	No	8	100	n/a	n/a	0.02	NP
MERCURY, TOTAL (UG/L)	L-LMW-2S	0	3	20	No	8	100	n/a	n/a	0.02	NP
MERCURY, TOTAL (UG/L)	L-LMW-4S	0	3	20	No	8	100	n/a	n/a	0.02	NP
MERCURY, TOTAL (UG/L)	L-LMW-7S	0	3	20	No	8	100	n/a	n/a	0.02	NP
MERCURY, TOTAL (UG/L)	L-LMW-8S	0	3	20	No	8	100	n/a	n/a	0.02	NP
MERCURY, TOTAL (UG/L)	L-MW-26	0	3	20	No	8	100	n/a	n/a	0.02	NP
MERCURY, TOTAL (UG/L)	L-AM-1D	0	3	20	No	8	100	n/a	n/a	0.02	NP
MERCURY, TOTAL (UG/L)	L-AM-1S	0	3	20	No	8	100	n/a	n/a	0.02	NP
MERCURY, TOTAL (UG/L)	L-TP-1D	0	3	20	No	8	100	n/a	n/a	0.02	NP
MERCURY, TOTAL (UG/L)	L-TP-2D	0	3	20	No	8	100	n/a	n/a	0.02	NP
MERCURY, TOTAL (UG/L)	L-TP-2M	0	3	20	No	8	100	n/a	n/a	0.02	NP
MERCURY, TOTAL (UG/L)	L-TP-3D	0	3	20	No	8	100	n/a	n/a	0.02	NP
MERCURY, TOTAL (UG/L)	L-TP-3M	0	3	20	No	8	100	n/a	n/a	0.02	NP
MERCURY, TOTAL (UG/L)	L-TP-4D	0	3	20	No	8	100	n/a	n/a	0.02	NP
MERCURY, TOTAL (UG/L)	L-AMW-8	0	3	20	No	8	100	n/a	n/a	0.02	NP
MERCURY, TOTAL (UG/L)	L-MW-24	0	3	20	No	8	100	n/a	n/a	0.02	NP
MERCURY, TOTAL (UG/L)	L-MW-33[D]	0	3	20	No	8	100	n/a	n/a	0.02	NP
MERCURY, TOTAL (UG/L)	L-MW-34[D]	0	3	20	No	8	100	n/a	n/a	0.02	NP
MERCURY, TOTAL (UG/L)	L-MW-35[D]	0	3	20	No	8	100	n/a	n/a	0.02	NP
MERCURY, TOTAL (UG/L)	L-S-1	0	3	20	No	8	100	n/a	n/a	0.02	NP
MOLYBDENUM, TOTAL (UG/L)	**L-LMW-1S**	**-1.5**	**-43**	**-35**	**Yes**	**12**	**16.67**	**n/a**	**n/a**	**0.02**	**NP**
MOLYBDENUM, TOTAL (UG/L)	**L-LMW-2S**	**26.87**	**36**	**35**	**Yes**	**12**	**0**	**n/a**	**n/a**	**0.02**	**NP**
MOLYBDENUM, TOTAL (UG/L)	L-LMW-4S	10.03	16	35	No	12	0	n/a	n/a	0.02	NP
MOLYBDENUM, TOTAL (UG/L)	L-LMW-7S	-2.124	-8	-35	No	12	0	n/a	n/a	0.02	NP
MOLYBDENUM, TOTAL (UG/L)	L-LMW-8S	-22.34	-17	-35	No	12	0	n/a	n/a	0.02	NP
MOLYBDENUM, TOTAL (UG/L)	L-MW-26	-0.03262	-7	-35	No	12	83.33	n/a	n/a	0.02	NP
MOLYBDENUM, TOTAL (UG/L)	L-AM-1D	-15.49	-39	-39	No	13	0	n/a	n/a	0.02	NP
MOLYBDENUM, TOTAL (UG/L)	L-AM-1S	0.2802	11	39	No	13	23.08	n/a	n/a	0.02	NP
MOLYBDENUM, TOTAL (UG/L)	L-TP-1D	0.03271	26	48	No	15	80	n/a	n/a	0.02	NP
MOLYBDENUM, TOTAL (UG/L)	**L-TP-2D**	**-5.748**	**-49**	**-48**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.02**	**NP**
MOLYBDENUM, TOTAL (UG/L)	**L-TP-2M**	**-6.517**	**-71**	**-48**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.02**	**NP**
MOLYBDENUM, TOTAL (UG/L)	**L-TP-3D**	**-103.1**	**-78**	**-48**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.02**	**NP**
MOLYBDENUM, TOTAL (UG/L)	L-TP-3M	25.21	39	48	No	15	0	n/a	n/a	0.02	NP
MOLYBDENUM, TOTAL (UG/L)	**L-TP-4D**	**0.6213**	**65**	**48**	**Yes**	**15**	**13.33**	**n/a**	**n/a**	**0.02**	**NP**
MOLYBDENUM, TOTAL (UG/L)	L-AMW-8	-8.225	-29	-44	No	14	0	n/a	n/a	0.02	NP
MOLYBDENUM, TOTAL (UG/L)	L-MW-24	0	0	31	No	11	63.64	n/a	n/a	0.02	NP
MOLYBDENUM, TOTAL (UG/L)	**L-MW-33[D]**	**-103.1**	**-58**	**-35**	**Yes**	**12**	**0**	**n/a**	**n/a**	**0.02**	**NP**
MOLYBDENUM, TOTAL (UG/L)	**L-MW-34[D]**	**-98.95**	**-56**	**-35**	**Yes**	**12**	**0**	**n/a**	**n/a**	**0.02**	**NP**
MOLYBDENUM, TOTAL (UG/L)	**L-MW-35[D]**	**-41.73**	**-36**	**-35**	**Yes**	**12**	**0**	**n/a**	**n/a**	**0.02**	**NP**
MOLYBDENUM, TOTAL (UG/L)	L-S-1	-0.1148	-29	-31	No	11	90.91	n/a	n/a	0.02	NP
Radium [226 + 228] (PCI/L)	L-LMW-1S	0.03155	18	35	No	12	100	n/a	n/a	0.02	NP
Radium [226 + 228] (PCI/L)	L-LMW-2S	0.01884	6	35	No	12	100	n/a	n/a	0.02	NP
Radium [226 + 228] (PCI/L)	L-LMW-4S	-0.00...	-2	-35	No	12	100	n/a	n/a	0.02	NP
Radium [226 + 228] (PCI/L)	L-LMW-7S	0.05933	21	31	No	11	100	n/a	n/a	0.02	NP
Radium [226 + 228] (PCI/L)	L-LMW-8S	0.02778	24	35	No	12	100	n/a	n/a	0.02	NP
Radium [226 + 228] (PCI/L)	L-MW-26	-0.01736	-4	-35	No	12	100	n/a	n/a	0.02	NP
Radium [226 + 228] (PCI/L)	L-AM-1D	0.02313	10	35	No	12	83.33	n/a	n/a	0.02	NP
Radium [226 + 228] (PCI/L)	L-AM-1S	0.04515	19	31	No	11	100	n/a	n/a	0.02	NP
Radium [226 + 228] (PCI/L)	L-TP-1D	-0.2475	-22	-35	No	12	0	n/a	n/a	0.02	NP
Radium [226 + 228] (PCI/L)	L-TP-2D	-0.08983	-6	-35	No	12	75	n/a	n/a	0.02	NP

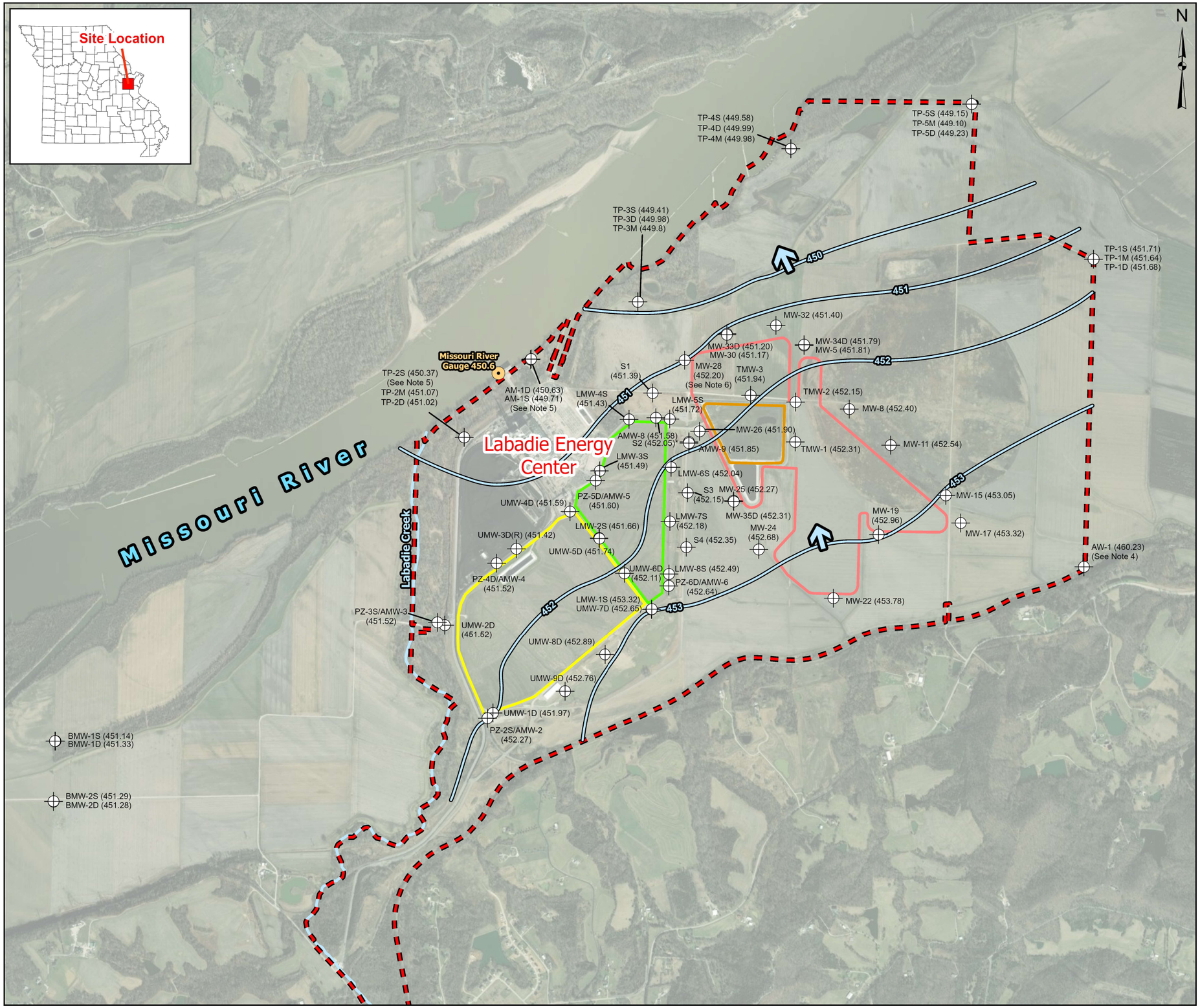
Trend Test

Labadie E.C. Client: Ameren Data: LEC DATA Printed 8/14/2025, 1:27 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Radium [226 + 228] (PCI/L)	L-TP-2M	-0.1276	-14	-35	No	12	58.33	n/a	n/a	0.02	NP
Radium [226 + 228] (PCI/L)	L-TP-3D	0.02015	7	31	No	11	100	n/a	n/a	0.02	NP
Radium [226 + 228] (PCI/L)	L-TP-3M	-0.1444	-6	-35	No	12	41.67	n/a	n/a	0.02	NP
Radium [226 + 228] (PCI/L)	L-TP-4D	-0.0224	-2	-35	No	12	8.333	n/a	n/a	0.02	NP
Radium [226 + 228] (PCI/L)	L-AMW-8	0.0614	10	35	No	12	75	n/a	n/a	0.02	NP
Radium [226 + 228] (PCI/L)	L-MW-24	-0.00...	-7	-31	No	11	90.91	n/a	n/a	0.02	NP
Radium [226 + 228] (PCI/L)	L-MW-33[D]	0.01326	11	27	No	10	90	n/a	n/a	0.02	NP
Radium [226 + 228] (PCI/L)	L-MW-34[D]	-0.01823	-4	-35	No	12	75	n/a	n/a	0.02	NP
Radium [226 + 228] (PCI/L)	L-MW-35[D]	0.01398	8	35	No	12	75	n/a	n/a	0.02	NP
Radium [226 + 228] (PCI/L)	L-S-1	0.02537	6	35	No	12	75	n/a	n/a	0.02	NP
SELENIUM, TOTAL (UG/L)	L-LMW-1S	0.1092	24	31	No	11	54.55	n/a	n/a	0.02	NP
SELENIUM, TOTAL (UG/L)	L-LMW-2S	0	-1	-35	No	12	41.67	n/a	n/a	0.02	NP
SELENIUM, TOTAL (UG/L)	L-LMW-4S	0	16	35	No	12	66.67	n/a	n/a	0.02	NP
SELENIUM, TOTAL (UG/L)	L-LMW-7S	0	-5	-27	No	10	90	n/a	n/a	0.02	NP
SELENIUM, TOTAL (UG/L)	L-LMW-8S	0.09227	31	35	No	12	50	n/a	n/a	0.02	NP
SELENIUM, TOTAL (UG/L)	L-MW-26	0.7839	35	35	No	12	0	n/a	n/a	0.02	NP
SELENIUM, TOTAL (UG/L)	L-AM-1D	0	0	35	No	12	100	n/a	n/a	0.02	NP
SELENIUM, TOTAL (UG/L)	**L-AM-1S**	**0.09901**	**38**	**35**	**Yes**	**12**	**41.67**	**n/a**	**n/a**	**0.02**	**NP**
SELENIUM, TOTAL (UG/L)	L-TP-1D	0	0	35	No	12	100	n/a	n/a	0.02	NP
SELENIUM, TOTAL (UG/L)	L-TP-2D	0	0	35	No	12	100	n/a	n/a	0.02	NP
SELENIUM, TOTAL (UG/L)	L-TP-2M	0	0	35	No	12	100	n/a	n/a	0.02	NP
SELENIUM, TOTAL (UG/L)	L-TP-3D	0	0	35	No	12	100	n/a	n/a	0.02	NP
SELENIUM, TOTAL (UG/L)	L-TP-3M	0	0	35	No	12	100	n/a	n/a	0.02	NP
SELENIUM, TOTAL (UG/L)	L-TP-4D	0	0	35	No	12	100	n/a	n/a	0.02	NP
SELENIUM, TOTAL (UG/L)	L-AMW-8	0	0	35	No	12	100	n/a	n/a	0.02	NP
SELENIUM, TOTAL (UG/L)	L-MW-24	2.744	21	35	No	12	16.67	n/a	n/a	0.02	NP
SELENIUM, TOTAL (UG/L)	L-MW-33[D]	0	0	35	No	12	100	n/a	n/a	0.02	NP
SELENIUM, TOTAL (UG/L)	L-MW-34[D]	0	0	35	No	12	100	n/a	n/a	0.02	NP
SELENIUM, TOTAL (UG/L)	L-MW-35[D]	0	0	35	No	12	100	n/a	n/a	0.02	NP
SELENIUM, TOTAL (UG/L)	**L-S-1**	**0.2116**	**33**	**31**	**Yes**	**11**	**36.36**	**n/a**	**n/a**	**0.02**	**NP**
THALLIUM, TOTAL (UG/L)	L-LMW-1S	0	8	20	No	8	100	n/a	n/a	0.02	NP
THALLIUM, TOTAL (UG/L)	L-LMW-2S	0.000...	7	17	No	7	100	n/a	n/a	0.02	NP
THALLIUM, TOTAL (UG/L)	L-LMW-4S	0	8	20	No	8	100	n/a	n/a	0.02	NP
THALLIUM, TOTAL (UG/L)	L-LMW-7S	0	8	20	No	8	100	n/a	n/a	0.02	NP
THALLIUM, TOTAL (UG/L)	L-LMW-8S	0	8	20	No	8	100	n/a	n/a	0.02	NP
THALLIUM, TOTAL (UG/L)	L-MW-26	0	8	20	No	8	100	n/a	n/a	0.02	NP
THALLIUM, TOTAL (UG/L)	L-AM-1D	0	8	20	No	8	100	n/a	n/a	0.02	NP
THALLIUM, TOTAL (UG/L)	L-AM-1S	0	8	20	No	8	100	n/a	n/a	0.02	NP
THALLIUM, TOTAL (UG/L)	L-TP-1D	0	8	20	No	8	100	n/a	n/a	0.02	NP
THALLIUM, TOTAL (UG/L)	L-TP-2D	0	8	20	No	8	100	n/a	n/a	0.02	NP
THALLIUM, TOTAL (UG/L)	L-TP-2M	0	8	20	No	8	100	n/a	n/a	0.02	NP
THALLIUM, TOTAL (UG/L)	L-TP-3D	0	8	20	No	8	100	n/a	n/a	0.02	NP
THALLIUM, TOTAL (UG/L)	L-TP-3M	0	8	20	No	8	100	n/a	n/a	0.02	NP
THALLIUM, TOTAL (UG/L)	L-TP-4D	0	8	20	No	8	100	n/a	n/a	0.02	NP
THALLIUM, TOTAL (UG/L)	L-AMW-8	0	8	20	No	8	100	n/a	n/a	0.02	NP
THALLIUM, TOTAL (UG/L)	L-MW-24	0	8	20	No	8	100	n/a	n/a	0.02	NP
THALLIUM, TOTAL (UG/L)	L-MW-33[D]	0	8	20	No	8	100	n/a	n/a	0.02	NP
THALLIUM, TOTAL (UG/L)	L-MW-34[D]	0	8	20	No	8	100	n/a	n/a	0.02	NP
THALLIUM, TOTAL (UG/L)	L-MW-35[D]	0	8	20	No	8	100	n/a	n/a	0.02	NP
THALLIUM, TOTAL (UG/L)	L-S-1	0	8	20	No	8	100	n/a	n/a	0.02	NP

Appendix F

2025 Potentiometric Surface Maps



TITLE

FEBRUARY 4, 2025 POTENTIOMETRIC SURFACE MAP

Legend

- Labadie Energy Center Property Boundary

CCR Units

- LCPA - Closed Bottom Ash Surface Impoundment
- LCPB - Closed Fly Ash Surface Impoundment
- LCL1 - Utility Waste Landfill Cell 1
- Proposed Final UWL Fence Perimeter

Monitoring Well or Piezometer

- Monitoring Well or Piezometer

Surface Water Elevation Measurement Location

- Missouri River Gauge

Groundwater Elevation Contours

- Groundwater Elevation Contour (FT MSL)
- Inferred Groundwater Elevation Contour (FT MSL)
- Groundwater Flow Direction

NOTES

1. All locations and boundaries are approximate.
2. Groundwater elevations displayed in FT MSL (Feet above Mean Sea Level).
3. Missouri River Level obtained from USGS Labadie gauge 06935550.
4. AW-1 was not used used in potentiometric surface contouring due to localized conditions causing an artificially high potentiometric elevation.
5. Wells TP-2S and AM-1S not used for potentiometric surface contouring due to localized vertical gradients.
6. MW-28 not used for potentiometric surface contouring due to localized vertical gradients.

REFERENCES

1. Zahner and Associates, Inc. 2016. Lot Consolidation Plat of "Labadie Energy Center" - Prepared for Ameren Missouri. Revised June 15, 2016.
2. USGS (United States Geological Survey), National Water Information System, USGS Gauge 06935550 Missouri River near Labadie, MO.

0 700 1,400 2,800 4,200 5,600 Feet

PROJECT
CCR RULE GROUNDWATER MONITORING PROGRAM

CLIENT
AMEREN MISSOURI
LABADIE ENERGY CENTER

ROCKSMITH GEOENGINEERING

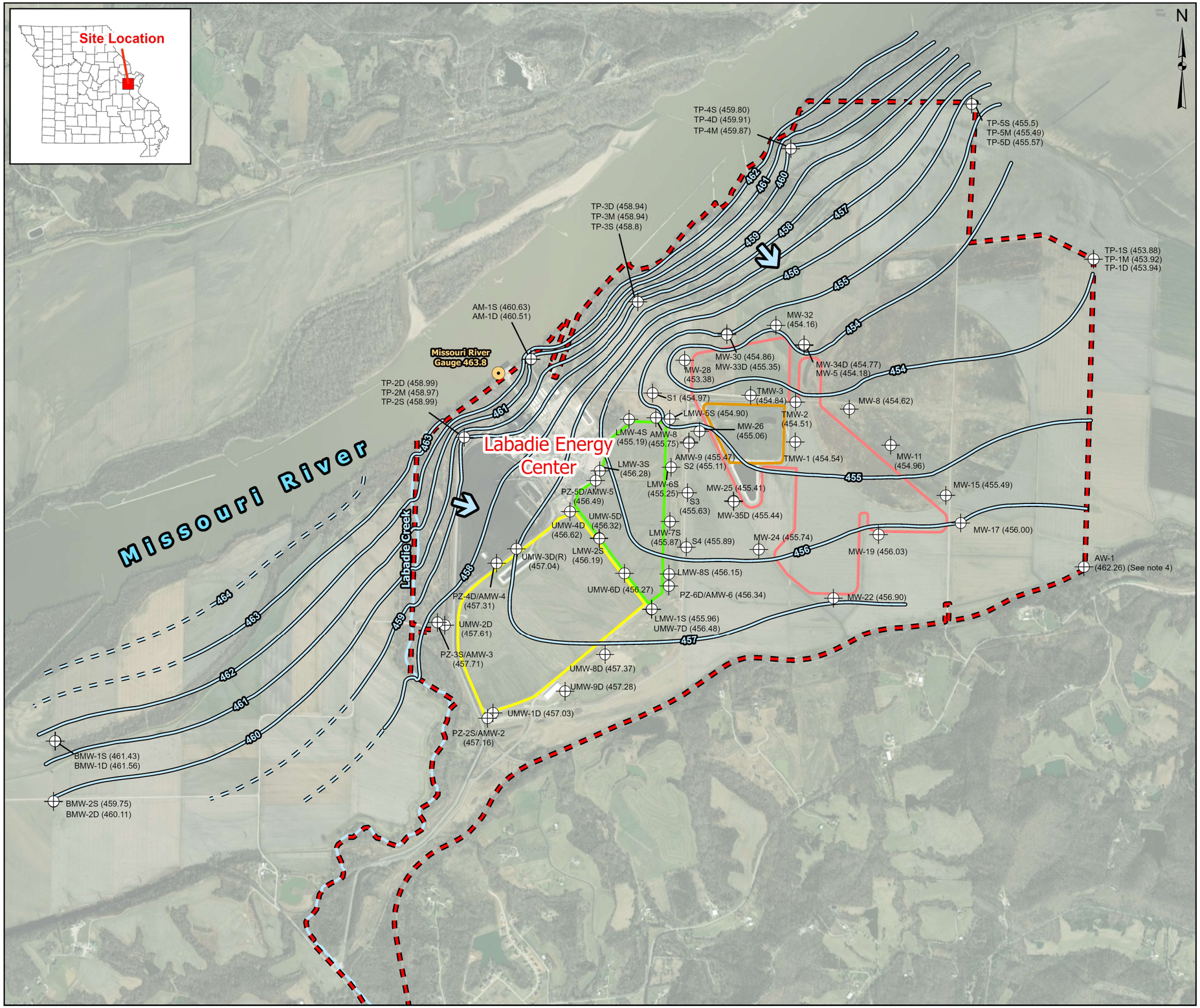
DESIGN	JSI	YYYY-MM-DD	2025-07-18
PREPARED	JDQ	PROJECT No.	23007-25
REVIEW	JTR		
APPROVED	MNH		

FIGURE F1

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

1 in 0

Path: C:\Users\JackRasmussen\Rocksmith Geoengineering LLC\23007 - Ameren GW - Documents\400 - Drawings, Figures\4.1-LEC\4.1.2 - Production\POT MAPS\2025 Annual Report\250204_Feb_EC_PM.aprx



TITLE

APRIL 23, 2025 POTENTIOMETRIC SURFACE MAP

Legend

- Labadie Energy Center Property Boundary

CCR Units

- LCPA - Closed Bottom Ash Surface Impoundment
- LCPB - Closed Fly Ash Surface Impoundment
- LCL1 - Utility Waste Landfill Cell 1
- Proposed Final UWL Fence Perimeter

Monitoring Well or Piezometer

- Monitoring Well or Piezometer

Surface Water Elevation Measurement Location

- Missouri River Gauge

Groundwater Elevation Contours

- Groundwater Elevation Contour (FT MSL)
- = = Inferred Groundwater Elevation Contour (FT MSL)
- Groundwater Flow Direction

NOTES

1. All locations and boundaries are approximate.
2. Groundwater elevations displayed in FT MSL (Feet above Mean Sea Level).
3. Missouri River Level obtained from USGS Labadie gauge 06935550.
4. AW-1 was not used used in potentiometric surface contouring due to localized conditions causing an artificially high potentiometric elevation.

REFERENCES

1. Zahner and Associates, Inc. 2016. Lot Consolidation Plat of "Labadie Energy Center" - Prepared for Ameren Missouri. Revised June 15, 2016.
2. USGS (United States Geological Survey), National Water Information System, USGS Gauge 06935550 Missouri River near Labadie, MO.

0 700 1,400 2,800 4,200 5,600 Feet

PROJECT
CCR RULE GROUNDWATER MONITORING PROGRAM

CLIENT
AMEREN MISSOURI
LABADIE ENERGY CENTER

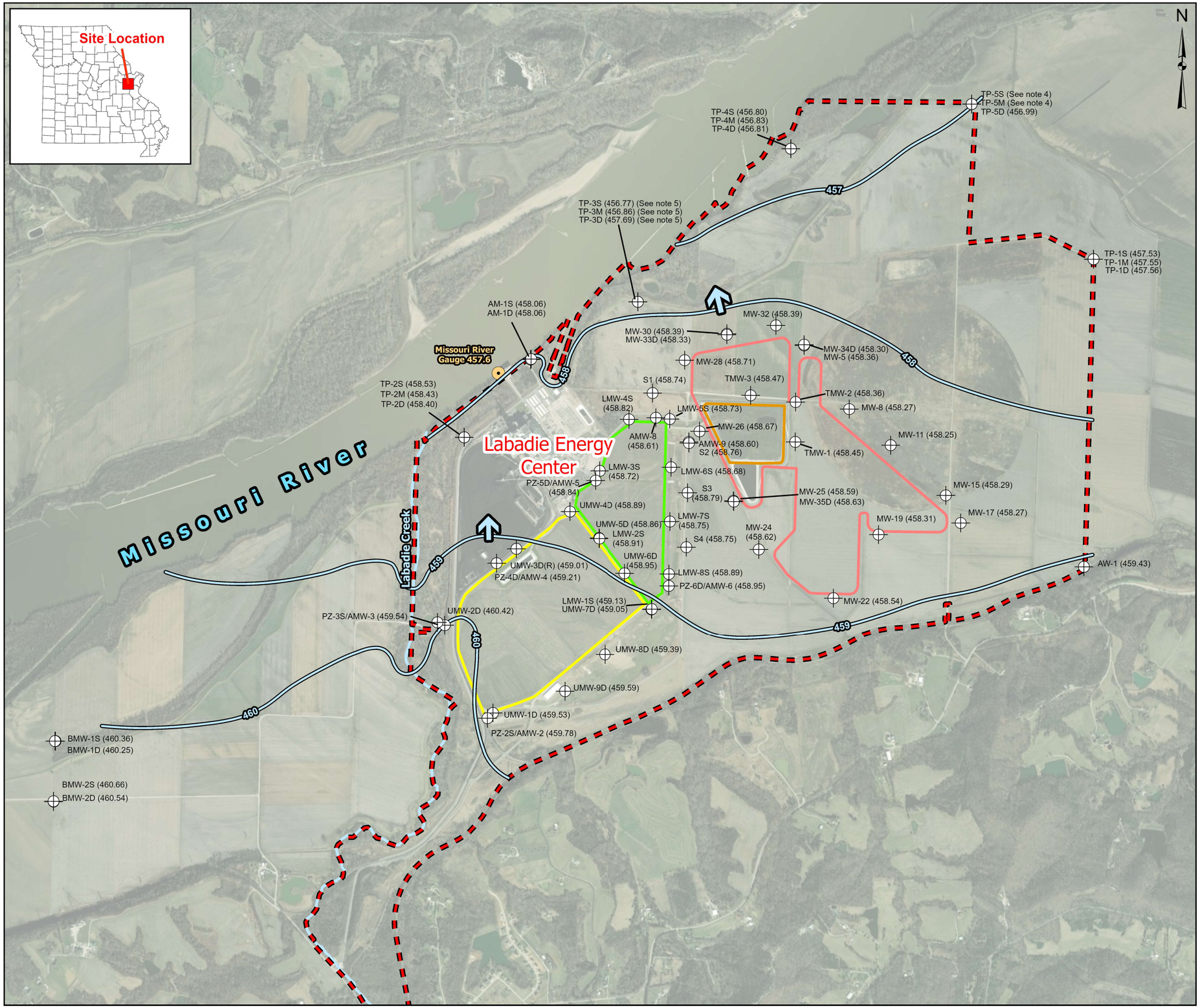
ROCKSMITH GEOENGINEERING

DESIGN	JSI	YYYY-MM-DD	2025-12-22
PREPARED	JDQ/JTR	PROJECT No.	23007-25
REVIEW	JTR		
APPROVED	MNH		

FIGURE F2

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

Path: C:\Users\JackRasmussen\Rocksmith Geoengineering LLC\23007 - Ameren GW - Documents\400 - Drawings_Figures\4.1\LEC\4.1.2 - Production\POT MAPS\2025 Annual Report\250204_AprilLEC_PM - JTR.aprx



TITLE

JULY 8, 2025 POTENTIOMETRIC SURFACE MAP

Legend

- Labadie Energy Center Property Boundary

CCR Units

- LCPA - Closed Bottom Ash Surface Impoundment
- LCPB - Closed Fly Ash Surface Impoundment
- LCL1 - Utility Waste Landfill Cell 1
- Proposed Final UWL Fence Perimeter

Monitoring Well or Piezometer

- Monitoring Well or Piezometer

Surface Water Elevation Measurement Location

- Missouri River Gauge

Groundwater Elevation Contours

- Groundwater Elevation Contour (FT MSL)
- Inferred Groundwater Elevation Contour (FT MSL)
- Groundwater Flow Direction

NOTES

1. All locations and boundaries are approximate.
2. Groundwater elevations displayed in FT MSL (Feet above Mean Sea Level).
3. Missouri River Level obtained from USGS Labadie gauge 06935550.
4. TP-5S and TP-5M were not used in potentiometric surface contouring due to measurement error.
5. TP-3S, TP-3M, and TP-3D were not used in potentiometric surface contouring due to localized vertical gradient.

REFERENCES

1. Zahner and Associates, Inc. 2016. Lot Consolidation Plat of "Labadie Energy Center" - Prepared for Ameren Missouri. Revised June 15, 2016.
2. USGS (United States Geological Survey), National Water Information System, USGS Gauge 06935550 Missouri River near Labadie, MO.

0 700 1,400 2,800 4,200 5,600 Feet

PROJECT
CCR RULE GROUNDWATER MONITORING PROGRAM

CLIENT
AMEREN MISSOURI
LABADIE ENERGY CENTER

ROCKSMITH GEOENGINEERING

DESIGN	JSI	YYYY-MM-DD	2025-12-18
PREPARED	JDQ	PROJECT No.	23007-25
REVIEW	JTR		
APPROVED	MNH		

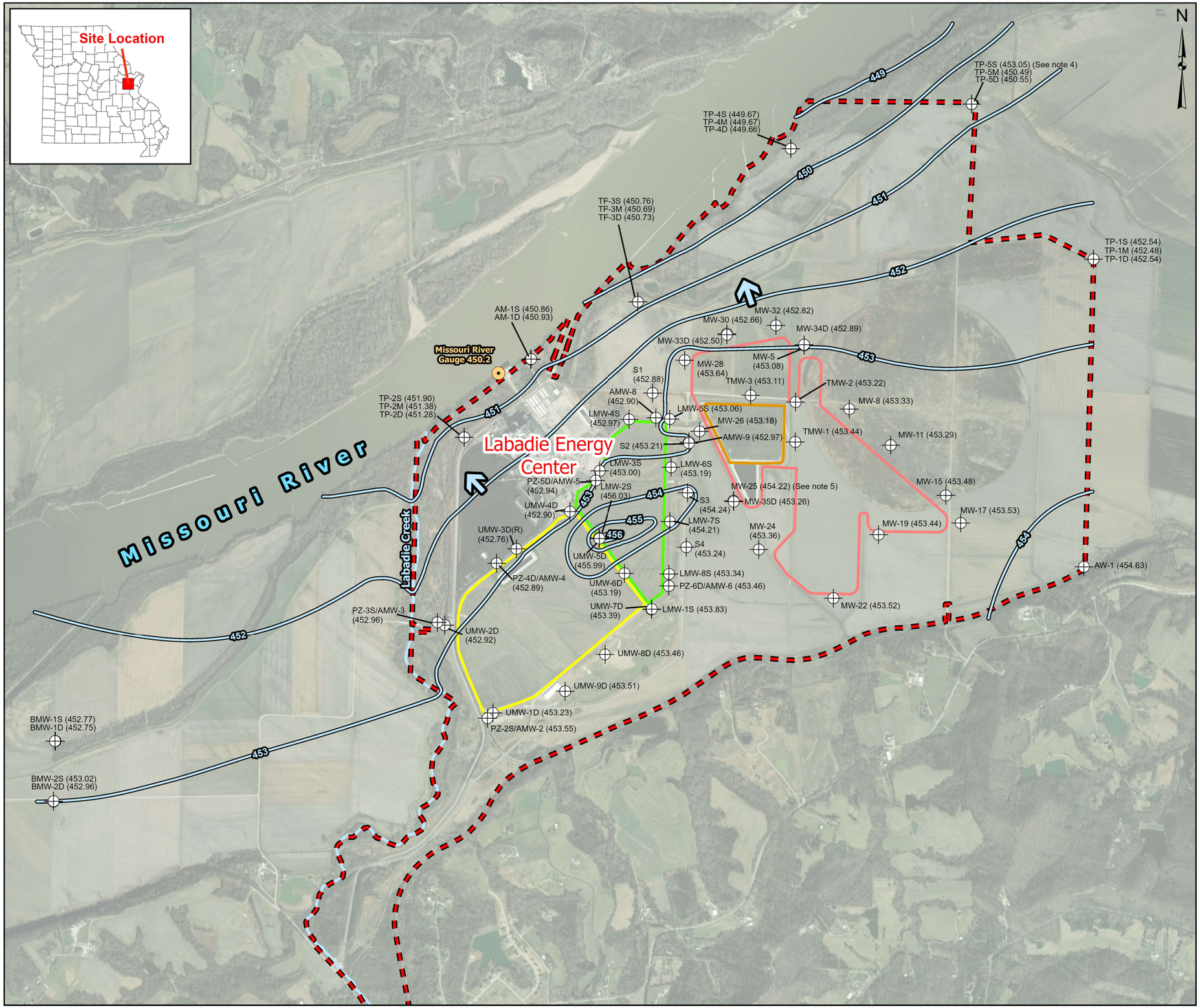
FIGURE F3

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

1 in

0

Path: C:\Users\JackRasmussen\Rocksmith Geoengineering LLC\23007 - Ameren GW - Documents\400 - Drawings_Figures\4.1\LEC\4.1.2 - Production\POT MAPS\2025 Annual Report\250204_JulyLEC_PM.aprx



TITLE

OCTOBER 16, 2025 POTENTIOMETRIC SURFACE MAP

Legend

- Labadie Energy Center Property Boundary

CCR Units

- LCPA - Closed Bottom Ash Surface Impoundment
- LCPB - Closed Fly Ash Surface Impoundment
- LCL1 - Utility Waste Landfill Cell 1
- Proposed Final UWL Fence Perimeter

Monitoring Well or Piezometer

- Monitoring Well or Piezometer

Surface Water Elevation Measurement Location

- Missouri River Gauge

Groundwater Elevation Contours

- Groundwater Elevation Contour (FT MSL)
- Inferred Groundwater Elevation Contour (FT MSL)
- Groundwater Flow Direction

NOTES

1. All locations and boundaries are approximate.
2. Groundwater elevations displayed in FT MSL (Feet above Mean Sea Level).
3. Missouri River Level obtained from USGS Labadie gauge 06935550.
4. TP-5S not used in potentiometric surface contouring due to localized vertical gradient.
5. MW-25 not used in potentiometric surface contouring due to localized vertical gradient.

REFERENCES

1. Zahner and Associates, Inc. 2016. Lot Consolidation Plat of "Labadie Energy Center" - Prepared for Ameren Missouri. Revised June 15, 2016.
2. USGS (United States Geological Survey), National Water Information System, USGS Gauge 06935550 Missouri River near Labadie, MO.

0 700 1,400 2,800 4,200 5,600 Feet

PROJECT
CCR RULE GROUNDWATER MONITORING PROGRAM

CLIENT
AMEREN MISSOURI
LABADIE ENERGY CENTER

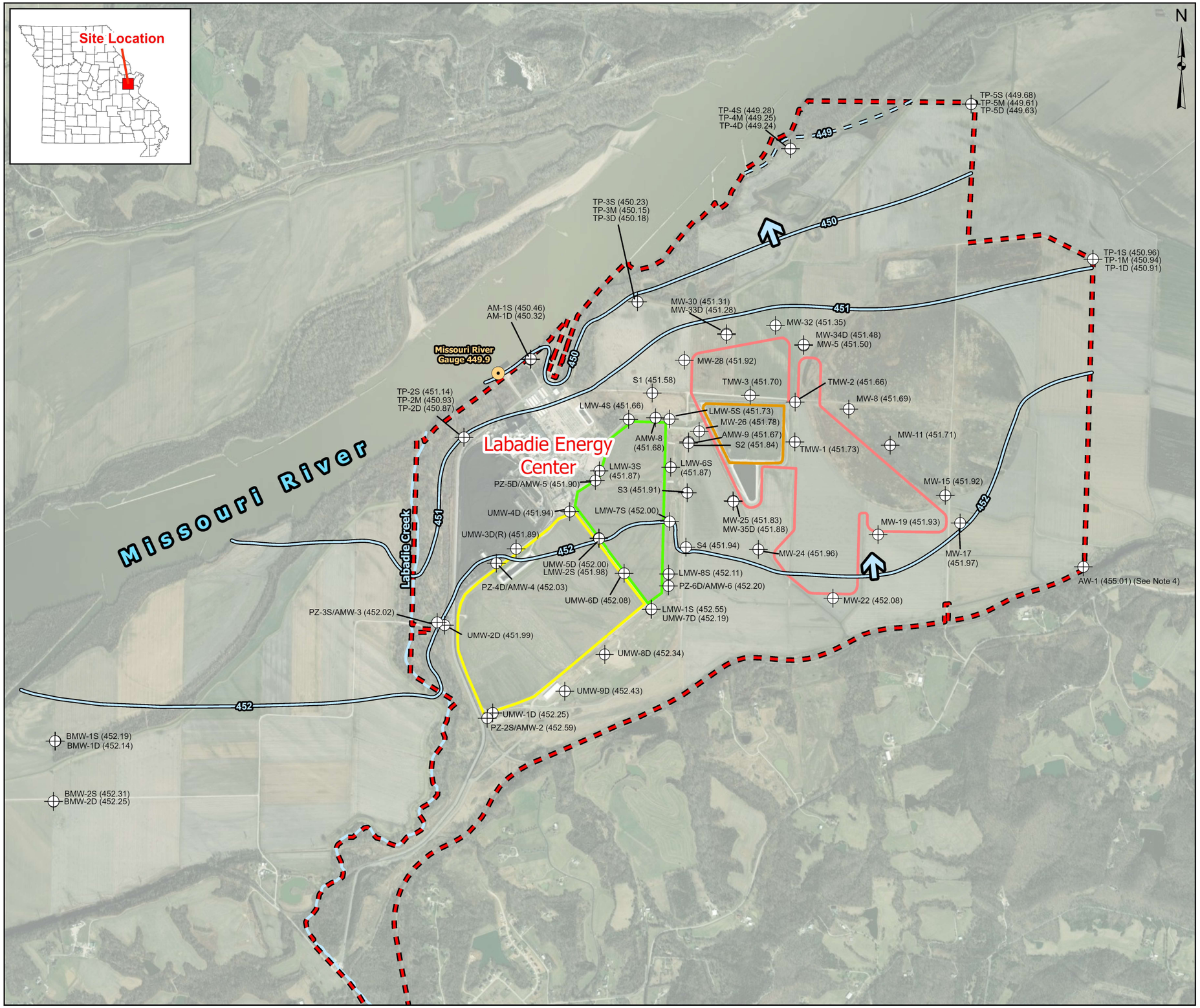
ROCKSMITH GEOENGINEERING

DESIGN	JSI	YYYY-MM-DD	2025-12-15
PREPARED	JDQ	PROJECT No.	23007-25
REVIEW	JTR		
APPROVED	MNH		

FIGURE F4

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

Path: C:\Users\JackRasmussen\Rocksmith Geoengineering LLC\23007 - Ameren GW - Documents\400 - Drawings, Figures\4.1-LEC4.1.2 - Production\POT MAPS\2025 Annual Report\250204_OctLEC_PM.aprx



TITLE

DECEMBER 5, 2025 POTENTIOMETRIC SURFACE MAP

Legend

- Labadie Energy Center Property Boundary

CCR Units

- LCPA - Closed Bottom Ash Surface Impoundment
- LCPB - Closed Fly Ash Surface Impoundment
- LCL1 - Utility Waste Landfill Cell 1
- Proposed Final UWL Fence Perimeter

Monitoring Well or Piezometer

- Monitoring Well or Piezometer

Surface Water Elevation Measurement Location

- Missouri River Gauge

Groundwater Elevation Contours

- Groundwater Elevation Contour (FT MSL)
- Inferred Groundwater Elevation Contour (FT MSL)
- Groundwater Flow Direction

NOTES

1. All locations and boundaries are approximate.
2. Groundwater elevations displayed in FT MSL (Feet above Mean Sea Level).
3. Missouri River Level obtained from USGS Labadie gauge 06935550.
4. AW-1 was not used in potentiometric surface contouring due to localized conditions causing an artificially high potentiometric elevation.

REFERENCES

1. Zahner and Associates, Inc. 2016. Lot Consolidation Plat of "Labadie Energy Center" - Prepared for Ameren Missouri. Revised June 15, 2016.
2. USGS (United States Geological Survey), National Water Information System, USGS Gauge 06935550 Missouri River near Labadie, MO.

0 700 1,400 2,800 4,200 5,600 Feet

PROJECT
CCR RULE GROUNDWATER MONITORING PROGRAM

CLIENT
AMEREN MISSOURI
LABADIE ENERGY CENTER

ROCKSMITH GEOENGINEERING

DESIGN	JSI	YYYY-MM-DD	2025-12-11
PREPARED	JDQ	PROJECT No.	23007-25
REVIEW	GTM		
APPROVED	MNH		

FIGURE F5

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

Path: C:\Users\JackRasmussen\Rocksmith Geoengineering LLC\23007 - Ameren GW - Documents\400 - Drawings, Figures\4.1-LEC\4.1.2 - Production\POT MAPS\2025 Annual Report\25125_DecemberLEC_PM.aprx