HALEY ALDRICH

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2025 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

BOTTOM ASH SETTLING AREA
TECUMSEH ENERGY CENTER
TECUMSEH, KANSAS

by
Haley & Aldrich, Inc.
Cleveland, Ohio

for
Evergy Kansas Central, Inc.
Topeka, Kansas

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This Annual Groundwater Monitoring and Corrective Action Report documents the groundwater monitoring program for the Tecumseh Energy Center (TEC) Bottom Ash Settling Area (BASA) consistent with applicable sections of Title 40 Code of Federal Regulations §§ 257.90 through 257.98, describes activities conducted in the prior calendar year (2025), and documents compliance with the U.S. Environmental Protection Agency Coal Combustion Residual Rule. I certify that the 2025 Annual Groundwater Monitoring and Corrective Action Report for the TEC BASA is, to the best of my knowledge, accurate and complete.

Signed:_____
Professional Geologist

Print Name:	Mark Nicholls
Kansas License No.:	Professional Geologist No. 881
Title:	Principal Consultant
Company:	Haley & Aldrich, Inc.

1. Introduction

This 2025 Annual Groundwater Monitoring and Corrective Action Report (Annual Report) addresses the Bottom Ash Settling Area (BASA; also known as the Bottom Ash Settling Pond) at the Tecumseh Energy Center (TEC), operated by Evergy Kansas Central, Inc. (Evergy). This Annual Report was developed in accordance with the U.S. Environmental Protection Agency (USEPA) Coal Combustion Residual (CCR) Rule (Rule) effective October 19, 2015, including subsequent revisions, specifically Title 40 Code of Federal Regulations (40 CFR), § 257.90(e). The Annual Report documents the groundwater monitoring system for the BASA consistent with applicable sections of 40 CFR 257.90 through 257.98, describes activities conducted in the prior calendar year (2025), and documents compliance with the Rule. The specific requirements for the Annual Report listed in § 257.90(e) of the Rule are provided in Sections 1 and 2 of this Annual Report and are in bold italic font, followed by a short narrative describing how each Rule requirement has been met.

1.1 40 CFR § 257.90(e)(6) SUMMARY

A section at the beginning of the annual report that provides an overview of the current status of groundwater monitoring and corrective action programs for the CCR unit. At a minimum, the summary must specify all of the following:

1.1.1 40 CFR § 257.90(e)(6)(i) – Initial Monitoring Program

At the start of the current annual reporting period, whether the CCR unit was operating under the detection monitoring program in § 257.94 or the assessment monitoring program in § 257.95;

At the start of the current annual reporting period (January 1, 2025), the BASA was operating under an assessment monitoring program in compliance with 40 CFR § 257.95 for all constituents except arsenic and cobalt. A Corrective Measures Assessment (CMA) was initiated on March 13, 2023 in accordance with 40 CFR § 257.96 for arsenic and cobalt, which continue to be monitored under an assessment monitoring program in accordance with 40 CFR § 257.96(b). The CMA will be completed in accordance with the USEPA-approved compliance timeline included in the TEC BASA Nature and Extent Investigation Well Placement/Development Plan (N&E Development Plan).

1.1.2 40 CFR § 257.90(e)(6)(ii) – Final Monitoring Program

At the end of the current annual reporting period, whether the CCR unit was operating under the detection monitoring program in § 257.94 or the assessment monitoring program in § 257.95;

At the end of the current annual reporting period (December 31, 2025), the BASA was under an assessment monitoring program in compliance with 40 CFR § 257.95 for all constituents except arsenic and cobalt. A CMA has been initiated in accordance with 40 CFR § 257.96 for arsenic and cobalt, which continue to be monitored under an assessment monitoring program in accordance with 40 CFR § 257.96(b).

1.1.3 40 CFR § 257.90(e)(6)(iii) – Statistically Significant Increases

If it was determined that there was a statistically significant increase over background for one or more constituents listed in Appendix III to this part pursuant to § 257.94(e):

1.1.3.1 40 CFR § 257.90(e)(6)(iii)(a) – Statistically Significant Increase Constituents

Identify those constituents listed in Appendix III to this part and the names of the monitoring wells associated with such an increase; and

The BASA was operating under an assessment monitoring program. Therefore, no statistical evaluations were completed on Appendix III constituents in 2025.

1.1.3.2 40 CFR § 257.90(e)(6)(iii)(b) – Initiation of Assessment Monitoring

Provide the date when the assessment monitoring program was initiated for the CCR unit.

An assessment monitoring program was initiated on July 17, 2018 for the BASA with a notification establishing assessment monitoring provided on August 15, 2018 to meet the requirements of 40 CFR § 257.95. The TEC BASA surface impoundment was closed on August 11, 2020 in accordance with the requirements of § 257.102(c).

Pursuant to the Consent Agreement and Final Order In the Matter of Evergy Kansas Central, Inc.: Docket No. RCRA-07-2023-0001 dated November 7, 2022 (CAFO), the TEC BASA surface impoundment was reopened for further assessment monitoring, and the assessment monitoring program was re-established to meet the requirements of 40 CFR § 257.95 on December 12, 2022.

The BASA remained in assessment monitoring in 2025, with a corrective measures program implemented for arsenic and cobalt in accordance with 40 CFR § 257.96.

1.1.4 40 CFR § 257.90(e)(6)(iv) – Statistically Significant Levels

If it was determined that there was a statistically significant level above the groundwater protection standard for one or more constituents listed in Appendix IV to this part pursuant to § 257.95(g) include all of the following:

1.1.4.1 40 CFR § 257.90(e)(6)(iv)(A) – Statistically Significant Level Constituents

Identify those constituents listed in Appendix IV to this part and the names of the monitoring wells associated with such an increase;

Statistically significant levels (SSL) above the groundwater protection standards (GWPS) identified in 2025 for the September 2024 and March 2025 semiannual assessment monitoring sampling events are listed in Table I. The statistical evaluation reports for the semiannual assessment monitoring sampling events from September 2024 and March 2025 were completed in January 2025 and July 2025, respectively, and are included in Attachment 1.

1.1.4.2 40 CFR § 257.90(e)(6)(iv)(B) – Initiation of the Assessment of Corrective Measures

Provide the date when the assessment of corrective measures was initiated for the CCR unit;

A CMA was initiated on March 13, 2023 for arsenic and cobalt at the BASA in accordance with 40 CFR § 257.96.

1.1.4.3 40 CFR § 257.90(e)(6)(iv)(C) – Assessment of Corrective Measures Public Meeting

Provide the date when the public meeting was held for the assessment of corrective measures for the CCR unit; and

A public meeting was not held in 2025. A public meeting to discuss the results of the CMA will be held at least 30 days prior to the selection of remedy in accordance with § 257.96(e).

1.1.4.4 40 CFR § 257.90(e)(6)(iv)(D) – Completion of the Assessment of Corrective Measures

Provide the date when the assessment of corrective measures was completed for the CCR unit.

A CMA was not completed in 2025 at the BASA. The CMA will be completed in accordance with the USEPA-approved compliance timeline included in the TEC BASA N&E Development Plan. This plan was approved as a component of the CAFO by the USEPA on July 21, 2023.

1.1.5 40 CFR § 257.90(e)(6)(v) – Selection of Remedy

Whether a remedy was selected pursuant to § 257.97 during the current annual reporting period, and if so, the date of remedy selection; and

A remedy was not selected in 2025 for arsenic and cobalt at the BASA.

1.1.6 40 CFR § 257.90(e)(6)(vi) – Remedial Activities

Whether remedial activities were initiated or are ongoing pursuant to § 257.98 during the current annual reporting period.

No remedial activities were initiated at TEC BASA in 2025. Therefore, no demonstration or certification is applicable for this unit.

2. 40 CFR § 257.90 Applicability

2.1 40 CFR § 257.90(a)

All CCR landfills, CCR surface impoundments, and lateral expansions of CCR units are subject to the groundwater monitoring and corrective action requirements under §§ 257.90 through 257.99, except as provided in paragraph (g) [Suspension of groundwater monitoring requirements] of this section.

Evergy has installed and certified a groundwater monitoring system at the TEC BASA. The BASA is subject to the groundwater monitoring and corrective action requirements described under 40 CFR §§ 257.90 through 257.98. This document addresses the requirement for the Owner/Operator to prepare an Annual Report per § 257.90(e).

2.2 40 CFR § 257.90(e) – SUMMARY

Annual groundwater monitoring and corrective action report. For existing CCR landfills and existing CCR surface impoundments, no later than January 31, 2018, and annually thereafter, the owner or operator must prepare an annual groundwater monitoring and corrective action report. For new CCR landfills, new CCR surface impoundments, and all lateral expansions of CCR units, the owner or operator must prepare the initial annual groundwater monitoring and corrective action report no later than January 31 of the year following the calendar year a groundwater monitoring system has been established for such CCR unit as required by this subpart, and annually thereafter. For CCR management units, the owner or operator must prepare the initial annual groundwater monitoring and corrective action report no later than January 31, 2029, and annually thereafter. For the preceding calendar year, the annual report must document the status of the groundwater monitoring and corrective action program for the CCR unit, summarize key actions completed, describe any problems encountered, discuss actions to resolve the problems, and project key activities for the upcoming year. For purposes of this section, the owner or operator has prepared the annual report when the report is placed in the facility's operating record as required by § 257.105(h)(1).

This Annual Report describes monitoring completed and actions taken for the groundwater monitoring system at the TEC BASA as required by the Rule. Groundwater sampling and analysis was conducted per the requirements described in § 257.93, and the status of the groundwater monitoring program described in § 257.94 and § 257.95 is also provided in this report. This Annual Report documents the applicable groundwater-related activities completed in calendar year 2025.

2.2.1 Status of the Groundwater Monitoring Program

In accordance with paragraph 10.c of the CAFO, statistical evaluations were completed in 2022 for assessment monitoring groundwater data collected after January 1, 2018 at the BASA using interwell comparison methods to establish background levels and identify Appendix IV statistically significant levels (SSL) and to determine groundwater protection standard (GWPS) in accordance with 40 CFR § 257.95(h) and (i). The statistical evaluations indicated Appendix IV SSLs above the GWPS for arsenic and cobalt.

A CMA was initiated on March 13, 2023 for arsenic and cobalt in accordance with 40 CFR § 257.96. Evergy is currently conducting an assessment monitoring program that includes all other Appendix IV constituents. The CMA will be completed in accordance with the USEPA-approved compliance timeline included in the TEC BASA N&E Development Plan.

2.2.2 Key Actions Completed

The 2024 Annual Groundwater Monitoring and Corrective Action Report was completed in January 2025. Statistical evaluation was completed in January 2025 on analytical data from the September 2024 semiannual assessment monitoring sampling event. Annual assessment monitoring sampling events were completed in December 2024 at the certified groundwater monitoring network to identify detected Appendix IV constituents for the subsequent semiannual sampling events in March 2025.

A semiannual assessment monitoring sampling event was completed in March 2025 at the certified groundwater monitoring network for detected Appendix IV constituents identified from the December 2024 annual assessment monitoring sampling event. Statistical evaluation was completed in July 2025 on analytical data from the March 2025 semiannual assessment monitoring sampling event.

An annual assessment monitoring sampling event was completed in June 2025 to identify detected Appendix IV constituents for subsequent sampling events in September 2025 and planned for March 2026. Semiannual assessment monitoring sampling was completed at the certified groundwater monitoring network for detected Appendix IV constituents identified during the June 2025 annual monitoring event. Statistical evaluation of the results from the September 2025 semiannual assessment monitoring sampling event are due to be completed in January 2026 and will be reported in the next annual report.

In November 2023, Evergy completed the installation of four additional monitoring wells in accordance with the Well Placement/Development Plan for the Installation of Additional Monitoring Wells at the BASA Surface Impoundment (Development Plan) approved by the USEPA on July 21, 2023. The monitoring wells supplement the existing certified groundwater monitoring network. The initial baseline groundwater monitoring samples were collected in December 2023 from the newly installed monitoring wells. Groundwater monitoring was completed at the newly installed monitoring wells bi-monthly, in accordance with the Development Plan. The final round of baseline sampling was completed in March 2025, and the monitoring wells were included into the certified monitoring network prior to the June 2025 annual assessment monitoring sampling event.

The determination of the nature and extent of Appendix IV SSLs continued pursuant to § 257.95(g). Five additional groundwater monitoring wells were installed in June 2025 to collect groundwater quality data that will continue to define the nature and extent of constituent migration downgradient of the BASA, in accordance with the N&E Development Plan approved by the USEPA on July 21, 2023. The initial groundwater samples were collected from the newly installed monitoring wells in November 2025. Additional groundwater characterization samples were collected in March 2025, June 2025, and September 2025 from monitoring wells included in the certified groundwater monitoring network and the first phase of nature and extent investigation.

2.2.3 Problems Encountered

Noteworthy problems encountered during groundwater monitoring activities at the BASA in 2025 included a laboratory analytical error following the September 2025 semiannual assessment monitoring sampling event which required verification samples to be collected from monitoring well MW-8 in November 2025.

2.2.4 Actions to Resolve Problems

Actions taken to resolve the problems encountered at the BASA in 2025 included the collection of a verification groundwater sample from MW-8 in November 2025, as described above. The analytical results for this sampling event were revised accordingly.

2.2.5 Project Key Activities for Upcoming Year

Key activities planned for 2026 include the 2025 Annual Groundwater Monitoring and Corrective Action Report, statistical evaluation of semiannual assessment monitoring analytical data collected in September 2025, semiannual assessment monitoring and subsequent statistical evaluations, and annual assessment monitoring.

The nature and extent investigation is underway and will continue into the next calendar year (2026).

2.3 40 CFR § 257.90(e) – INFORMATION

At a minimum, the annual groundwater monitoring and corrective action report must contain the following information, to the extent available:

2.3.1 40 CFR § 257.90(e)(1)

A map, aerial image, or diagram showing the CCR unit and all background (or upgradient) and downgradient monitoring wells, to include the well identification numbers, that are part of the groundwater monitoring program for the CCR unit;

As required by § 257.90(e)(1), a map showing the locations of the CCR unit and associated upgradient and downgradient monitoring wells for the TEC BASA is included in this report as Figure 1. As described in Section 2.2.2, monitoring wells installed to supplement the groundwater monitoring network were included in the certified groundwater monitoring network and are shown on Figure 1. Monitoring wells utilized for the nature and extent investigation at the BASA are also presented on Figure 2.

2.3.2 40 CFR § 257.90(e)(2) – Monitoring System Changes

Identification of any monitoring wells that were installed or decommissioned during the preceding year, along with a narrative description of why those actions were taken;

As described in Section 2.3.1, four monitoring wells were included in the certified groundwater monitoring network at the BASA in 2025 and are shown on Figure 1. Monitoring well MW-9 was reclassified as a piezometer that will be utilized for groundwater elevation measurements only.

Five monitoring wells were installed in June 2025 to support the continued evaluation of the nature and extent of arsenic and cobalt downgradient of the BASA. The newly installed nature and extent monitoring well locations are shown on Figure 2.

No monitoring wells were decommissioned in 2025.

2.3.3 40 CFR § 257.90(e)(3) – Summary of Sampling Events

In addition to all the monitoring data obtained under § 257.90 through § 257.98, a summary including the number of groundwater samples that were collected for analysis for each background and downgradient well, the dates the samples were collected, and whether the sample was required by the detection monitoring or assessment monitoring programs;

In accordance with § 257.95(b) and § 257.95(d)(1), three independent assessment monitoring samples were attempted from the certified background and downgradient monitoring wells in 2025. A summary, including sample names, sampling dates, field parameters, and monitoring data obtained for the groundwater monitoring program for the BASA is presented in Table II of this report. Analytical results from groundwater samples collected in December 2024 for the annual assessment monitoring sampling event were received and validated in January 2025 and are also presented in Table II of this report. Groundwater contour maps associated with each compliance groundwater monitoring sampling event in 2025 are provided in Figures 3 through 5.

A summary, including sample names, dates of sample collection, field parameters, and validated groundwater monitoring data obtained in 2025 for the nature and extent investigation for the BASA, is provided in Table III of this report, with corresponding laboratory analytical reports provided in Attachment 2. Groundwater samples were collected in March, June, and September 2025 from the existing compliance and nature and extent monitoring wells, and in November 2025 from the five newly installed nature and extent monitoring wells.

A summary, including sample names, dates of sample collection, field parameters, and validated groundwater monitoring data of the eight rounds of baseline sampling completed in March 2025 on the new monitoring wells in the BASA certified monitoring network, is provided in Table IV of this report. Corresponding laboratory analytical reports are provided in Attachment 2.

2.3.4 40 CFR § 257.90(e)(4) – Monitoring Transition Narrative

A narrative discussion of any transition between monitoring programs (e.g., the date and circumstances for transitioning from detection monitoring to assessment monitoring in addition to identifying the constituent(s) detected at a statistically significant increase over background levels); and

The assessment monitoring program was initiated on July 17, 2018 with notification of assessment monitoring provided on August 15, 2018 to meet the requirements of 40 CFR § 257.95. Upon documentation of CCR waste material removal from the unit on September 5, 2019, two consecutive sampling events (October 2019 and December 2019) were used to document that detected Appendix IV constituents did not exceed the GWPS for the BASA pursuant to § 257.95(h). The TEC BASA surface impoundment was closed on August 11, 2020 in accordance with the requirements of § 257.102(c).

Pursuant to the CAFO, the TEC BASA surface impoundment was reopened for further assessment monitoring on December 12, 2022, and the assessment monitoring program has been re-established to meet the requirements of 40 CFR § 257.95. A CMA was initiated on March 13, 2023 in accordance with 40 CFR § 257.96. The TEC BASA remains in assessment monitoring for all other constituents. Arsenic and cobalt continue to be monitored under the assessment monitoring program in accordance with 40 CFR § 257.96(b).

2.3.5 40 CFR § 257.90(e)(5) – Other Requirements

Other information required to be included in the annual report as specified in § 257.90 through § 257.98.

This Annual Report documents activities conducted to comply with §§ 257.90 through 257.95 of the Rule. It is understood that there are supplemental references in §§ 257.90 through 257.98 that must be placed in the Annual Report. The following requirements include relevant and required information in the Annual Report for activities completed in calendar year 2025.

2.3.5.1 40 CFR § 257.94(d)(3) – Demonstration for Alternative Detection Monitoring Frequency

The owner or operator must obtain a certification from a qualified professional engineer or approval from the Participating State Director or approval from EPA where EPA is the permitting authority stating that the demonstration for an alternative groundwater sampling and analysis frequency meets the requirements of this section. The owner or operator must include the demonstration providing the basis for the alternative monitoring frequency and the certification by a qualified professional engineer or the approval from the Participating State Director or approval from EPA where EPA is the permitting authority in the annual groundwater monitoring and corrective action report required by § 257.90(e).

An alternative groundwater detection monitoring sampling and analysis frequency has not been established for this CCR unit. Therefore, no demonstration or certification is applicable.

2.3.5.2 40 CFR § 257.94(e)(2) – Detection Monitoring Alternate Source Demonstration

The owner or operator may demonstrate that a source other than the CCR unit caused the statistically significant increase over background levels for a constituent or that the statistically significant increase resulted from error in sampling, analysis, statistical evaluation, or natural variation in groundwater quality. The owner or operator must complete the written demonstration within 90 days of detecting a statistically significant increase over background levels to include obtaining a certification from a qualified professional engineer or approval from the Participating State Director

or approval from EPA where EPA is the permitting authority verifying the accuracy of the information in the report. If a successful demonstration is completed within the 90-day period, the owner or operator of the CCR unit may continue with a detection monitoring program under this section. If a successful demonstration is not completed within the 90-day period, the owner or operator of the CCR unit must initiate an assessment monitoring program as required under § 257.95. The owner or operator must also include the demonstration in the annual groundwater monitoring and corrective action report required by § 257.90(e), in addition to the certification by a qualified professional engineer or approval from the Participating State Director or approval from EPA where EPA is the permitting authority.

This unit is in assessment monitoring. Therefore, no detection monitoring alternate source demonstration (ASD) or certification is applicable.

2.3.5.3 40 CFR § 257.95(c)(3) – Demonstration for Alternative Assessment Monitoring Frequency

The owner or operator must obtain a certification from a qualified professional engineer or approval from the Participating State Director or approval from EPA where EPA is the permitting authority stating that the demonstration for an alternative groundwater sampling and analysis frequency meets the requirements of this section. The owner or operator must include the demonstration providing the basis for the alternative monitoring frequency and the certification by a qualified professional engineer or the approval from the Participating State Director or approval from EPA where EPA is the permitting authority in the annual groundwater monitoring and corrective action report required by § 257.90(e).

An alternative groundwater assessment monitoring sampling and analysis frequency has not been established for this CCR unit. Therefore, no demonstration or certification is applicable.

2.3.5.4 40 CFR § 257.95(d)(3) – Assessment Monitoring Concentrations and Groundwater Protection Standards

Include the recorded concentrations required by paragraph (d)(1) of this section, identify the background concentrations established under § 257.94(b), and identify the groundwater protection standards established under paragraph (d)(2) of this section in the annual groundwater monitoring and corrective action report required by § 257.90(e).

An assessment monitoring program has been implemented at the CCR unit since December 12, 2022. Three rounds of assessment monitoring sampling were completed in 2025. Analytical results for both downgradient and upgradient wells are provided in Table II. The background concentrations (upper tolerance limits) and GWPS values established for detected Appendix IV constituents for the BASA are included in Table V and Table VI. The background concentrations and GWPS values provided in Tables V and VI were utilized for the statistical evaluations completed in 2025 for the September 2024 and March 2025 semiannual assessment monitoring sampling events, respectively.

2.3.5.5 40 CFR § 257.95(g)(3)(ii) – Assessment Monitoring Alternate Source Demonstration

Demonstrate that a source other than the CCR unit caused the contamination, or that the statistically significant increase resulted from error in sampling, analysis, statistical evaluation, or natural variation in groundwater quality. Any such demonstration must be supported by a report that includes the factual or evidentiary basis for any conclusions and must be certified to be accurate by a qualified professional engineer or approval from the Participating State Director or approval from EPA where EPA is the permitting authority. If a successful demonstration is made, the owner or operator must continue monitoring in accordance with the assessment monitoring program pursuant to this section, and may return to detection monitoring if the constituents in Appendices III and IV to this part are at or below background as specified in paragraph (e) of this section. The owner or operator must also include the demonstration in the annual groundwater monitoring and corrective action report required by § 257.90(e), in addition to the certification by a qualified professional engineer or the approval from the Participating State Director or approval from EPA where EPA is the permitting authority.

The BASA remained in assessment monitoring in 2025 for all constituents, other than arsenic and cobalt, which continue to be monitored under an assessment monitoring program in accordance with 40 CFR § 257.96(b).

2.3.5.6 40 CFR § 257.96(a) – Demonstration for Additional Time for Assessment of Corrective Measures

Within 90 days of finding that any constituent listed in appendix IV to this part has been detected at a statistically significant level exceeding the groundwater protection standard defined under § 257.95(h), or immediately upon detection of a release from a CCR unit, the owner or operator must initiate an assessment of corrective measures to prevent further releases, to remediate any releases and to restore affected area to original conditions. The assessment of corrective measures must be completed within 90 days, unless the owner or operator demonstrates the need for additional time to complete the assessment of corrective measures due to site-specific conditions or circumstances. The owner or operator must obtain a certification from a qualified professional engineer or approval from the Participating State Director or approval from EPA where EPA is the permitting authority attesting that the demonstration is accurate. The 90-day deadline to complete the assessment of corrective measures may be extended for no longer than 60 days. The owner or operator must also include the demonstration in the annual groundwater monitoring and corrective action report required by § 257.90(e), in addition to the certification by a qualified professional engineer or the approval from the Participating State Director or approval from EPA where EPA is the permitting authority.

Evergy initiated a CMA for the BASA on March 13, 2023 within 90 days of identification of SSLs for arsenic and cobalt in accordance with 40 CFR § 257.96. A demonstration of the need for additional time beyond the regulatory timeline was not required. The CMA will be completed in accordance with the USEPA-approved compliance timeline included in the TEC BASA N&E Development Plan.

TABLES

TABLE I
SSL SUMMARY TABLE
TECUMSEH ENERGY CENTER
BOTTOM ASH SETTLING AREA
TECUMSEH, KANSAS

Constituent	Sampling Event	Well ID	Groundwater Protection Standard (mg/L)
Arsenic	September 2024	MW-10	0.010**
Cobalt	September 2024	MW-10	0.006*
	March 2025	MW-10	

Notes:

** Value obtained from U.S. Environmental Protection Agency Federal CCR Rule Title 40 Code of Federal Regulations § 257.95(h)(2)*

*** Value set equal to the Maximum Contaminant Level.*

mg/L = milligrams per liter

SSL = statistically significant level

TABLE II
SUMMARY OF ANALYTICAL RESULTS: 2025 GROUNDWATER MONITORING SAMPLING
EVERGY KANSAS CENTRAL, INC.
TECUMSEH ENERGY CENTER, BOTTOM ASH SETTLING AREA
TECUMSEH, KANSAS

Location	Upgradient							
	MW-7							
Measure Point (TOC)	878.19							
Sample Name	MW-7-121624	TEC-BASA-DUP-121624	MW-7-031325	TEC-BASA-DUP-031325	MW-7-061325	TEC-BASA-DUP-061325	MW-7-091525	TEC-BASA-DUP-091525
Sample Date	12/16/2024	12/16/2024	03/13/2025	03/13/2025	06/13/2025	06/13/2025	09/15/2025	09/15/2025
Final Lab Report Date	1/10/2025	1/10/2025	4/7/2025	4/7/2025	7/16/2025	7/16/2025	10/3/2025	10/3/2025
Final Lab Report Revision Date	2/5/2025	2/5/2025	-	-	-	-	10/10/2025	10/10/2025
Final Radiation Lab Report Date	12/31/2024	12/31/2024	4/14/2025	4/14/2025	7/16/2025	7/16/2025	10/8/2025	10/8/2025
Final Radiation Lab Report Revision Date	4/2/2025	4/2/2025	-	-	-	-	-	-
Lab Data Reviewed and Accepted	3/24/2025	3/24/2025	5/29/2025	5/29/2025	8/28/2025	8/28/2025	1/21/2026	1/21/2026
Depth to Water (ft btoc)	27.08	27.08	26.51	26.51	26.30	26.30	27.52	27.52
Temperature (Deg C)	14.25	-	18.95	-	16.93	-	19.11	-
Dissolved Oxygen, Field (mg/L)	0.00	-	0.00	-	1.38	-	0.00	-
Ferrous Iron, Field (mg/L)	-	-	0.32	-	0.09	-	0.02	-
ORP, Field (mV)	0	-	-13	-	63	-	239	-
Turbidity, Field (NTU)	2.13	-	48.9	-	7.6	-	0	-
pH, Field (su)	6.65	-	7.35	-	6.85	-	6.62	-
Conductivity, Field (µS/cm)	1910	-	1600	-	1500	-	1440	-
Boron, Total (mg/L)	-	-	**0.57**	**0.56**	-	-	**0.55**	**0.55**
Calcium, Total (mg/L)	-	-	**142**	**139**	-	-	**139**	**141**
Chloride (mg/L)	-	-	**187**	**190**	-	-	**167**	**171**
Fluoride (mg/L)	**0.29**	**0.29**	**0.31**	**0.31**	< 0.20	< 0.20	< 0.20	< 0.20
Sulfate (mg/L)	-	-	**205**	**211**	-	-	**207**	**211**
pH (lab) (su)	-	-	**7.7**	**7.7**	-	-	**7.1**	**7.1**
Total Dissolved Solids (TDS) (mg/L)	-	-	< 66.7	**1030**	-	-	**1070**	**1050**
Antimony, Total (mg/L)	< 0.0010	< 0.0010	-	-	< 0.0010	< 0.0010	-	-
Arsenic, Total (mg/L)	**0.0030**	**0.0011**	**0.0042**	**0.0044**	< 0.0010	< 0.0010	**0.0012**	**0.0012**
Barium, Total (mg/L)	**0.063**	**0.069**	**0.16**	**0.17**	**0.064**	**0.068**	**0.075**	**0.075**
Beryllium, Total (mg/L)	< 0.0010	< 0.0010	-	-	< 0.00050	< 0.00050	-	-
Cadmium, Total (mg/L)	< 0.00050	< 0.00050	-	-	< 0.00050	< 0.00050	-	-
Chromium, Total (mg/L)	< 0.0050	< 0.0050	**0.012**	**0.013**	< 0.0010	< 0.0010	**0.0010**	< 0.0010
Cobalt, Total (mg/L)	**0.0011**	**0.0011**	**0.010**	**0.011**	< 0.0010	< 0.0010	**0.0015**	**0.0015**
Lead, Total (mg/L)	< 0.010	< 0.010	-	-	< 0.0010	< 0.0010	**0.0015**	< 0.0010
Lithium, Total (mg/L)	**0.031**	**0.033**	**0.0338**	**0.0385**	**0.0314**	**0.0311**	**0.036**	**0.037**
Mercury, Total (mg/L)	< 0.00020	< 0.00020	-	-	< 0.00020	< 0.00020	-	-
Molybdenum, Total (mg/L)	**0.019**	**0.017**	**0.016**	**0.016**	**0.017**	**0.017**	**0.015**	**0.015**
Selenium, Total (mg/L)	< 0.0010	< 0.0010	-	-	< 0.0010	< 0.0010	< 0.0010	< 0.0010
Thallium, Total (mg/L)	< 0.0020	< 0.0010	-	-	< 0.0010	< 0.0010	-	-
Fluoride (mg/L)	**0.29**	**0.29**	**0.31**	**0.31**	< 0.20	< 0.20	< 0.20	< 0.20
Radium-226 & 228 (pCi/L)	**1.42 ± 0.861 (1.17)**	1.19 ± 0.825 (1.35)	**0.933 ± 0.641 (0.842)**	0.938 ± 0.740 (1.07)	0.768 ± 0.641 (0.985)	0.639 ± 0.667 (0.951)	0.109 ± 0.613 (0.911)	0.250 ± 0.594 (0.915)

Notes:

Bold value: *Detection above laboratory reporting limit.*

[1] *Downgradient well not sampled due to insuffient water.*

Radiological results are presented as activity plus or minus uncertainty with MDC.

Data presented in this table were verified against the laboratory and validation reports.

µS/cm = micro Siemens per centimeter

Deg C = degrees Celsius

ft btoc = feet below top of casing

mg/L = milligrams per liter

mV = millivolt

NA = Not Applicable

NTU = Nephelometric Turbidity Unit

ORP = oxidation reduction potential

pCi/L = picoCuries per liter

su = standard unit

TDS = total dissolved solids

TOC = top of casing

R = Rejected during validation, data are not usable

TABLE II
SUMMARY OF ANALYTICAL RESULTS: 2025 GROUNDWATER MONITORING SAMPLING
EVERGY KANSAS CENTRAL, INC.
TECUMSEH ENERGY CENTER, BOTTOM ASH SETTLING AREA
TECUMSEH, KANSAS

Location	Downgradient								
	MW-8					MW-10			
Measure Point (TOC)	869.84					869.11			
Sample Name	MW-8-121624	MW-8-031225	MW-8-061325	MW-8-091625	MW-8-110325	MW-10-121624	MW-10-031225	MW-10-061225	MW-10-091525
Sample Date	12/16/2024	03/12/2025	06/13/2025	09/16/2025	11/03/2025	12/16/2024	03/12/2025	06/12/2025	09/15/2025
Final Lab Report Date	1/10/2025	4/7/2025	7/16/2025	10/3/2025	11/18/2025	1/10/2025	4/7/2025	7/16/2025	10/3/2025
Final Lab Report Revision Date	2/5/2025	-	-	10/10/2025	-	2/5/2025	-	-	10/10/2025
Final Radiation Lab Report Date	12/31/2024	4/14/2025	7/16/2025	10/8/2025	12/1/2025	12/31/2024	4/14/2025	7/16/2025	10/8/2025
Final Radiation Lab Report Revision Date	4/2/2025	-	-	-	-	4/2/2025	-	-	-
Lab Data Reviewed and Accepted	3/24/2025	5/29/2025	8/28/2025	1/21/2026	1/21/2026	3/24/2025	5/29/2025	8/28/2025	1/21/2026
Depth to Water (ft btoc)	21.05	20.46	19.69	22.76	-	20.55	20.10	19.31	20.39
Temperature (Deg C)	16.52	20.46	20.85	23.01	-	16.27	17.95	23.18	28.01
Dissolved Oxygen, Field (mg/L)	0.00	0.00	5.42	0	-	0.00	0.00	3.49	0.08
Ferrous Iron, Field (mg/L)	-	0.32	0.34	2.60	-	-	0.26	-	0.71
ORP, Field (mV)	-25	129	91	234	-	-89	2250	-185	-178
Turbidity, Field (NTU)	4.56	85.4	46.6	98.9	-	3.94	70.1	46.3	198
pH, Field (su)	7.11	7.4	6.93	7.01	-	6.77	7.2	6.80	7.21
Conductivity, Field (µS/cm)	2150	1770	1700	1570	-	2590	2250	2110	2320
Boron, Total (mg/L)	-	**1.1**	-	**1.0**	-	-	**0.28**	-	**0.28**
Calcium, Total (mg/L)	-	**184**	-	**182**	-	-	**156**	-	**157**
Chloride (mg/L)	-	**194**	-	**197**	-	-	**326**	-	**318**
Fluoride (mg/L)	**0.27**	**0.26**	< 0.20	< 0.20	-	**0.31**	**0.38**	< 0.20	< 0.20
Sulfate (mg/L)	-	**568**	-	**614**	-	-	**227**	-	**181**
pH (lab) (su)	-	**7.2**	-	**7.5**	-	-	**7.2**	-	**6.8**
Total Dissolved Solids (TDS) (mg/L)	-	**2050**	-	**1310**	-	-	**1170**	-	**1360**
Antimony, Total (mg/L)	< 0.0010	-	< 0.0010	-	-	< 0.0010	-	< 0.0010	-
Arsenic, Total (mg/L)	**0.0013**	**0.0015**	**0.0014**	**0.020**	**0.0027**	**0.0034**	**0.0037**	**0.0080**	**0.0037**
Barium, Total (mg/L)	**0.054**	**0.055**	**0.058**	**0.26**	**0.074**	**0.16**	**0.12**	**0.17**	**0.16**
Beryllium, Total (mg/L)	< 0.0010	-	< 0.00050	-	-	< 0.0010	-	< 0.00050	-
Cadmium, Total (mg/L)	< 0.00050	-	< 0.00050	-	-	< 0.00050	-	< 0.00050	-
Chromium, Total (mg/L)	< 0.0050	**0.0016**	**0.0018**	**0.046**	**0.011**	< 0.0050	< 0.0010	< 0.0010	< 0.0010
Cobalt, Total (mg/L)	< 0.0010	< 0.0010	< 0.0010	**0.015**	**0.0024**	**0.0047**	**0.0073**	**0.0057**	**0.0065**
Lead, Total (mg/L)	< 0.010	-	< 0.0010	**0.024**	**0.0028**	< 0.010	-	< 0.0010	< 0.0010
Lithium, Total (mg/L)	**0.023**	**0.017**	**0.0197**	**0.051**	**0.023**	**0.012**	< 0.0100	< 0.0100	**0.015**
Mercury, Total (mg/L)	< 0.00020	-	< 0.00020	-	-	< 0.00020	-	< 0.00020	-
Molybdenum, Total (mg/L)	**0.038**	**0.040**	**0.045**	**0.041**	-	**0.0022**	**0.0034**	**0.0027**	**0.0030**
Selenium, Total (mg/L)	< 0.0010	-	**0.0011**	**0.0085**	-	< 0.0010	-	< 0.0010	< 0.0010
Thallium, Total (mg/L)	< 0.0010	-	< 0.0010	-	-	< 0.0010	-	< 0.0010	-
Fluoride (mg/L)	**0.27**	**0.26**	< 0.20	< 0.20	-	**0.31**	**0.38**	< 0.20	< 0.20
Radium-226 & 228 (pCi/L)	**1.24 ± 0.735 (0.975)**	0.832 ± 0.696 (1.07)	0.853 ± 0.827 (1.25)	-	**1.36 ± 0.568 (0.782)**	**2.38 ± 0.897 (1.04)**	**2.48 ± 0.881 (1.02)**	**4.19 ± 1.10 (1.08)**	**1.91 ± 0.599 (0.618)**

Notes:

Bold value: *Detection above laboratory reporting limit.*

[1] *Downgradient well not sampled due to insuffient water.*

Radiological results are presented as activity plus or minus uncertainty with MDC.

Data presented in this table were verified against the laboratory and validation reports.

µS/cm = micro Siemens per centimeter

Deg C = degrees Celsius

ft btoc = feet below top of casing

mg/L = milligrams per liter

mV = millivolt

NA = Not Applicable

NTU = Nephelometric Turbidity Unit

ORP = oxidation reduction potential

pCi/L = picoCuries per liter

su = standard unit

TDS = total dissolved solids

TOC = top of casing

R = Rejected during validation, data are not usable

TABLE II
SUMMARY OF ANALYTICAL RESULTS: 2025 GROUNDWATER MONITORING SAMPLING
EVERGY KANSAS CENTRAL, INC.
TECUMSEH ENERGY CENTER, BOTTOM ASH SETTLING AREA
TECUMSEH, KANSAS

Location	Downgradient								
	MW-11A			MW-12			MW-13		
Measure Point (TOC)	866.60			864.87			867.82		
Sample Name	MW-11A-031225	MW-11A-061225	MW-11A-091525	MW-12-031225	MW-12-061225	MW-12-091525	MW-13-031225	MW-13-061225	MW-13-091525
Sample Date	03/12/2025	06/12/2025	09/15/2025	03/12/2025	06/12/2025	09/15/2025	03/12/2025	06/12/2025	09/15/2025
Final Lab Report Date	4/9/2025	7/16/2025	10/3/2025	4/9/2025	7/16/2025	10/3/2025	4/9/2025	7/16/2025	10/3/2025
Final Lab Report Revision Date	-	-	10/10/2025	-	-	10/10/2025	-	-	10/10/2025
Final Radiation Lab Report Date	4/11/2025	7/16/2025	10/8/2025	4/11/2025	7/16/2025	10/8/2025	4/11/2025	7/16/2025	10/8/2025
Final Radiation Lab Report Revision Date	-	-	-	-	-	-	-	-	-
Lab Data Reviewed and Accepted	5/29/2025	8/28/2025	1/21/2026	5/29/2025	8/28/2025	1/21/2026	5/29/2025	8/28/2025	1/21/2026
Depth to Water (ft btoc)	16.06	17.63	18.06	16.83	16.59	17.48	18.60	18.36	19.97
Temperature (Deg C)	17.88	21.78	19.50	19.57	25.70	26.83	19.06	30.36	30.16
Dissolved Oxygen, Field (mg/L)	0.95	0.00	0.00	4.71	4.22	0.00	2.07	4.24	0.13
Ferrous Iron, Field (mg/L)	0.65	0.34	2.16	2.15	1.85	+3.00	0.18	0.99	2.18
ORP, Field (mV)	-63	117	157	-115	-22	-127	-175	-10	-153
Turbidity, Field (NTU)	67.8	81.2	7.7	45.2	64.5	20.1	83.5	83.0	34.4
pH, Field (su)	6.74	6.68	6.48	6.52	6.64	6.99	7.87	8.36	7.91
Conductivity, Field (µS/cm)	2750	2930	2360	2510	2170	2260	2000	1790	1900
Boron, Total (mg/L)	**0.43**	-	**0.36**	**0.48**	-	**0.44**	**1.3**	-	**1.1**
Calcium, Total (mg/L)	**238**	-	**235**	**217**	-	**203**	**205**	-	**197**
Chloride (mg/L)	**403**	-	**524**	**345**	-	**365**	**186**	-	**195**
Fluoride (mg/L)	**0.25**	< 0.20	< 0.20	**0.32**	< 0.20	< 0.20	**0.24**	< 0.20	< 0.20
Sulfate (mg/L)	**382**	-	**445**	**348**	-	**337**	**679**	-	**660**
pH (lab) (su)	**7.1**	-	**6.9**	**6.7**	-	**6.8**	**7.9**	-	**7.8**
Total Dissolved Solids (TDS) (mg/L)	**1740**	-	**1810**	**1410**	-	**1500**	**1550**	-	**1400**
Antimony, Total (mg/L)	< 0.0010	< 0.0010	-	< 0.0010	< 0.0010	-	< 0.0010	< 0.0010	-
Arsenic, Total (mg/L)	**0.0015**	**0.0035**	< 0.0010	**0.013**	**0.0034**	**0.013**	**0.014**	**0.025**	**0.0074**
Barium, Total (mg/L)	**0.043**	**0.060**	**0.041**	**0.077**	**0.088**	**0.070**	**0.083**	**0.090**	**0.066**
Beryllium, Total (mg/L)	< 0.00050	< 0.00050	-	< 0.00050	< 0.00050	-	< 0.00050	< 0.00050	-
Cadmium, Total (mg/L)	< 0.00050	< 0.00050	-	< 0.00050	< 0.00050	-	< 0.00050	< 0.00050	-
Chromium, Total (mg/L)	< 0.0010	**0.0034**	**0.0010**	< 0.0010	< 0.0010	< 0.0010	**0.0028**	**0.0018**	**0.0015**
Cobalt, Total (mg/L)	**0.010**	**0.0077**	**0.011**	**0.035**	**0.033**	**0.030**	**0.0014**	< 0.0010	< 0.0010
Lead, Total (mg/L)	< 0.0010	**0.0099**	**0.0014**	**0.0012**	**0.0012**	< 0.0010	**0.0013**	< 0.0010	< 0.0010
Lithium, Total (mg/L)	**0.029**	**0.0487**	**0.041**	**0.032**	**0.0267**	**0.035**	< 0.010	< 0.0100	**0.017**
Mercury, Total (mg/L)	< 0.00020	< 0.00020	-	< 0.00020	< 0.00020	-	< 0.00020	< 0.00020	-
Molybdenum, Total (mg/L)	**0.0023**	**0.0041**	**0.0023**	**0.0048**	**0.0046**	**0.0051**	**0.050**	**0.066**	**0.044**
Selenium, Total (mg/L)	< 0.0010	**0.0011**	< 0.0010	< 0.0010	< 0.0010	< 0.0010	**0.0023**	< 0.0010	**0.0012**
Thallium, Total (mg/L)	< 0.0010	< 0.0020	-	< 0.0010	< 0.0010	-	< 0.0010	< 0.0010	-
Fluoride (mg/L)	**0.25**	< 0.20	< 0.20	**0.32**	< 0.20	< 0.20	**0.24**	< 0.20	< 0.20
Radium-226 & 228 (pCi/L)	**1.55 ± 0.627 (0.685)**	**2.38 ± 0.903 (1.13)**	0.922 ± 0.709 (1.04)	**1.10 ± 0.526 (0.694)**	**1.84 ± 0.742 (0.897)**	**1.70 ± 0.711 (0.985)**	**2.08 ± 0.765 (0.930)**	0.483 ± 0.688 (1.08)	0.431 ± 0.620 (1.14)

Notes:

Bold value: *Detection above laboratory reporting limit.*

[1] *Downgradient well not sampled due to insuffient water.*

Radiological results are presented as activity plus or minus uncertainty with MDC.

Data presented in this table were verified against the laboratory and validation reports.

µS/cm = micro Siemens per centimeter

Deg C = degrees Celsius

ft btoc = feet below top of casing

mg/L = milligrams per liter

mV = millivolt

NA = Not Applicable

NTU = Nephelometric Turbidity Unit

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su = standard unit

TDS = total dissolved solids

TOC = top of casing

R = Rejected during validation, data are not usable

TABLE II
SUMMARY OF ANALYTICAL RESULTS: 2025 GROUNDWATER MONITORING SAMPLING
EVERGY KANSAS CENTRAL, INC.
TECUMSEH ENERGY CENTER, BOTTOM ASH SETTLING AREA
TECUMSEH, KANSAS

Location	Downgradient		
	MW-14		
Measure Point (TOC)	869.84		
Sample Name	MW-14-031325	MW-14-061225	MW-14-091625
Sample Date	03/13/2025	06/12/2025	09/16/2025
Final Lab Report Date	4/9/2025	7/16/2025	10/3/2025
Final Lab Report Revision Date	-	-	10/10/2025
Final Radiation Lab Report Date	4/11/2025	7/16/2025	10/8/2025
Final Radiation Lab Report Revision Date	-	-	-
Lab Data Reviewed and Accepted	5/29/2025	8/28/2025	1/21/2026
Depth to Water (ft btoc)	20.67	20.65	22.90
Temperature (Deg C)	15.59	22.13	19.34
Dissolved Oxygen, Field (mg/L)	0.31	5.60	0.00
Ferrous Iron, Field (mg/L)	0.17	0.14	1.56
ORP, Field (mV)	180	98	263
Turbidity, Field (NTU)	44.6	20.7	19.9
pH, Field (su)	7.65	7.05	6.91
Conductivity, Field (µS/cm)	2210	2380	1920
Boron, Total (mg/L)	**1.0**	-	**0.91**
Calcium, Total (mg/L)	**226**	-	**184**
Chloride (mg/L)	**244**	-	**230**
Fluoride (mg/L)	**0.29**	< 0.20	< 0.20
Sulfate (mg/L)	**549**	-	**498**
pH (lab) (su)	**7.5**	-	**7.4**
Total Dissolved Solids (TDS) (mg/L)	**1410**	-	**1460**
Antimony, Total (mg/L)	< 0.0010	< 0.0010	-
Arsenic, Total (mg/L)	**0.0016**	**0.0014**	**0.0018**
Barium, Total (mg/L)	**0.042**	**0.031**	**0.030**
Beryllium, Total (mg/L)	< 0.00050	< 0.00050	-
Cadmium, Total (mg/L)	< 0.00050	< 0.00050	-
Chromium, Total (mg/L)	**0.0020**	< 0.0010	**0.0016**
Cobalt, Total (mg/L)	< 0.0010	< 0.0010	**0.0010**
Lead, Total (mg/L)	< 0.0010	< 0.0010	< 0.0010
Lithium, Total (mg/L)	**0.026**	**0.0335**	**0.042**
Mercury, Total (mg/L)	< 0.00020	< 0.00020	-
Molybdenum, Total (mg/L)	**0.022**	**0.029**	**0.023**
Selenium, Total (mg/L)	**0.0018**	**0.0060**	**0.0020**
Thallium, Total (mg/L)	< 0.0010	< 0.0010	-
Fluoride (mg/L)	**0.29**	< 0.20	< 0.20
Radium-226 & 228 (pCi/L)	1.20 ± 0.830 (1.25)	**2.37 ± 0.658 (0.666)**	**0.962 ± 0.654 (0.897)**

Notes:

Bold value: *Detection above laboratory reporting limit.*

[1] *Downgradient well not sampled due to insuffient water.*

Radiological results are presented as activity plus or minus uncertainty with MDC.

Data presented in this table were verified against the laboratory and validation reports.

µS/cm = micro Siemens per centimeter

Deg C = degrees Celsius

ft btoc = feet below top of casing

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NA = Not Applicable

NTU = Nephelometric Turbidity Unit

ORP = oxidation reduction potential

pCi/L = picoCuries per liter

su = standard unit

TDS = total dissolved solids

TOC = top of casing

R = Rejected during validation, data are not usable

TABLE III

SUMMARY OF ANALYTICAL RESULTS: 2025 NATURE AND EXTENT MONITORING

EVERGY KANSAS CENTRAL, INC.

TECUMSEH ENERGY CENTER, BOTTOM ASH SETTLING AREA

TECUMSEH, KANSAS

Location	Upgradient						Downgradient								
	MW-7						MW-8				MW-10			MW-11A	
Measure Point (TOC)	878.19						869.84				869.11			866.60	
Sample Name	MW-7-031325	TEC-BASA-DUP-031325	MW-7-061325	TEC-BASA-DUP-061325	MW-7-091525	TEC-BASA-DUP-091525	MW-8-031225	MW-8-061325	MW-8-091625	MW-8-110325	MW-10-031225	MW-10-061225	MW-10-091525	MW-11A-061225	MW-11A-091525
Sample Date	03/13/2025	03/13/2025	06/13/2025	06/13/2025	09/15/2025	09/15/2025	03/12/2025	06/13/2025	09/16/2025	11/03/2025	03/12/2025	06/12/2025	09/15/2025	6/12/2025	09/15/2025
Final Lab Report Date	4/7/2025	4/7/2025	7/16/2025	7/16/2025	10/3/2025	10/3/2025	4/7/2025	7/16/2025	10/3/2025	11/18/2025	4/7/2025	7/16/2025	10/3/2025	7/16/2025	10/3/2025
Final Lab Report Revision Date	-	-	-	-	10/13/2025	10/13/2025	-	-	10/13/2025	-	-	-	10/13/2025	-	10/13/2025
Final Radiation Lab Report Date	4/14/2025	4/14/2025	7/16/2025	7/16/2025	10/3/2025	10/3/2025	4/14/2025	7/16/2025	10/3/2025	12/1/2025	4/14/2025	7/16/2025	10/3/2025	7/16/2025	10/3/2025
Final Radiation Lab Report Revision Date	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lab Data Reviewed and Accepted	5/29/2025	5/29/2025	8/28/2025	8/28/2025	1/21/2026	1/21/2026	5/29/2025	8/28/2025	1/21/2026	1/21/2026	5/29/2025	8/28/2025	1/21/2026	8/28/2025	1/21/2026
Depth to Water (ft btoc)	26.51	26.51	26.30	26.30	27.52	27.52	20.46	19.69	22.76	21.85	20.10	19.31	20.39	17.63	18.06
Temperature (Deg C)	18.95	-	16.93	-	19.11	-	20.46	20.85	23.01	18.00	17.95	23.18	28.01	21.78	19.50
Dissolved Oxygen, Field (mg/L)	0.00	-	1.38	-	0.00	-	0.00	5.42	0.00	0.29	0.00	3.49	0.08	0.00	0.00
Ferrous Iron, Field (mg/L)	0.32	-	0.09	-	0.02	-	0.32	0.34	2.60	0.10	0.26	-	0.71	0.34	2.16
ORP, Field (mV)	-13	-	63	-	239	-	129	91	234	103	2250	-185	-178	117	157
Turbidity, Field (NTU)	48.9	-	7.6	-	0.0	-	85.4	46.6	98.9	37.3	70.1	46.3	198	81.2	7.7
pH, Field (su)	7.35	-	6.85	-	6.62	-	7.4	6.93	7.01	7.28	7.2	6.80	7.21	6.68	6.48
Conductivity, Field (µS/cm)	1600	-	1500	-	1440	-	1770	1700	1570	1521	2250	2110	2320	2930	2360
Boron, Total (mg/L)	**0.57**	**0.56**	-	-	**0.55**	**0.55**	**1.1**	-	**1.0**	-	**0.28**	-	**0.28**	**-**	**0.36**
Calcium, Total (mg/L)	**142**	**139**	-	-	**139**	**141**	**184**	-	**182**	-	**156**	-	**157**	**-**	**235**
Chloride (mg/L)	**187**	**190**	-	-	**167**	**171**	**194**	-	**197**	-	**326**	-	**318**	**-**	**524**
Fluoride (mg/L)	**0.31**	**0.31**	-	-	< 0.20	< 0.20	**0.26**	-	< 0.20	-	**0.38**	-	< 0.20	-	< 0.20
Sulfate (mg/L)	**205**	**211**	-	-	**207**	**211**	**568**	-	**614**	-	**227**	-	**181**	**-**	**445**
pH (lab) (su)	**7.7**	**7.7**	-	-	**7.1**	**7.1**	**7.2**	-	**7.5**	-	**7.2**	-	**6.8**	**-**	**6.9**
Total Dissolved Solids (TDS) (mg/L)	< 66.7	**1030**	-	-	**1070**	**1050**	**2050**	-	**1310**	-	**1170**	-	**1360**	**-**	**1810**
Antimony, Total (mg/L)	-	-	< 0.0010	< 0.0010	-	-	-	< 0.0010	-	-	-	< 0.0010	-	< 0.0010	-
Arsenic, Total (mg/L)	**0.0042**	**0.0044**	< 0.0010	< 0.0010	**0.0012**	**0.0012**	**0.0015**	**0.0014**	**0.020**	**0.0027**	**0.0037**	**0.0080**	**0.0037**	**0.0035**	< 0.0010
Barium, Total (mg/L)	**0.16**	**0.17**	**0.064**	**0.068**	**0.075**	**0.075**	**0.055**	**0.058**	**0.26**	**0.074**	**0.12**	**0.17**	**0.16**	**0.060**	**0.041**
Beryllium, Total (mg/L)	-	-	< 0.00050	< 0.00050	-	-	-	< 0.00050	-	-	-	< 0.00050	-	< 0.00050	-
Cadmium, Total (mg/L)	-	-	< 0.00050	< 0.00050	-	-	-	< 0.00050	-	-	-	< 0.00050	-	< 0.00050	-
Chromium, Total (mg/L)	**0.012**	**0.013**	< 0.0010	< 0.0010	**0.0010**	< 0.0010	**0.0016**	**0.0018**	**0.046**	**0.011**	< 0.0010	< 0.0010	< 0.0010	**0.0034**	**0.0010**
Cobalt, Total (mg/L)	**0.010**	**0.011**	< 0.0010	< 0.0010	**0.0015**	**0.0015**	< 0.0010	< 0.0010	**0.015**	**0.0024**	**0.0073**	**0.0057**	**0.0065**	**0.0077**	**0.011**
Lead, Total (mg/L)	-	-	< 0.0010	< 0.0010	**0.0015**	< 0.0010	-	< 0.0010	**0.024**	**0.0028**	-	< 0.0010	< 0.0010	**0.0099**	**0.0014**
Lithium, Total (mg/L)	**0.0338**	**0.0385**	**0.0314**	**0.0311**	**0.036**	**0.037**	**0.017**	**0.0197**	**0.051**	**0.023**	< 0.0100	< 0.0100	**0.015**	**0.049**	**0.041**
Molybdenum, Total (mg/L)	**0.016**	**0.016**	**0.017**	**0.017**	**0.015**	**0.015**	**0.040**	**0.045**	**0.041**	-	**0.0034**	**0.0027**	**0.0030**	**0.0041**	**0.0023**
Selenium, Total (mg/L)	-	-	< 0.0010	< 0.0010	< 0.0010	< 0.0010	-	**0.0011**	**0.0085**	-	-	< 0.0010	< 0.0010	**0.0011**	< 0.0010
Thallium, Total (mg/L)	-	-	< 0.0010	< 0.0010	-	-	-	< 0.0010	-	-	-	< 0.0010	-	< 0.0020	-
Mercury, Total (mg/L)	-	-	< 0.00020	< 0.00020	-	-	-	< 0.00020	-	-	-	< 0.00020	-	< 0.00020	-
Fluoride (mg/L)	**0.31**	**0.31**	< 0.20	< 0.20	< 0.20	< 0.20	**0.26**	< 0.20	< 0.20	-	**0.38**	0.20 R	< 0.20	< 0.20	< 0.20
Radium-226 & 228 (pCi/L)	**0.933 ± 0.641 (0.842)**	0.938 ± 0.740 (1.07)	0.768 ± 0.641 (0.985)	0.639 ± 0.667 (0.951)	0.109 ± 0.613 (0.911)	0.250 ± 0.594 (0.915)	0.832 ± 0.696 (1.07)	0.853 ± 0.827 (1.25)	-	**1.36 ± 0.568 (0.782)**	**2.48 ± 0.881 (1.02)**	**4.19 ± 1.10 (1.08)**	**1.91 ± 0.599 (0.618)**	**2.38 ± 0.903 (1.13)**	0.922 ± 0.709 (1.04)
Aluminum, Dissolved (mg/L)	**0.12**	**0.064**	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	**0.040**	-	< 0.050	< 0.050	< 0.050	< 0.050	**1.4**
Arsenic, Dissolved (mg/L)	**0.0013**	**0.0013**	**0.00086**	**0.00084**	**0.0011**	**0.0011**	< 0.0010	**0.00077**	**0.00095**	-	**0.0030**	**0.0086**	**0.0038**	< 0.0010	**0.0019**
Cobalt, Dissolved (mg/L)	**0.0012**	**0.0011**	**0.00074**	**0.00072**	**0.00077**	**0.00079**	< 0.0010	**0.00040**	**0.00059**	-	**0.0084**	**0.0064**	**0.0071**	**0.0077**	**0.012**
Iron, Dissolved (mg/L)	**0.16**	**0.095**	**0.0083**	**0.0096**	**0.019**	**0.012**	< 0.050	**0.0067**	**0.064**	-	**0.51**	**2.6**	**0.48**	**0.068**	**2.4**
Magnesium, Dissolved (mg/L)	**23.9**	**23.0**	**22.5**	**23.9**	**24.3**	**23.9**	**14.2**	**12.9**	**15.3**	-	**31.0**	**30.1**	**30.7**	**42.6**	**42.8**
Manganese, Dissolved (mg/L)	**0.38**	**0.36**	**0.23**	**0.23**	**0.34**	**0.35**	**0.61**	**0.57**	**0.77**	-	**4.0**	**4.6**	**4.3**	**0.9**	**2.0**
Aluminum, Total (mg/L)	**4.5**	**4.9**	**0.071**	**0.063**	**0.041**	**0.039**	**1.0**	**0.71**	**14.2**	-	**0.35**	**0.10**	**0.20**	**0.77**	**2.6**
Iron, Total (mg/L)	**5.3**	**5.7**	**0.10**	**0.090**	**0.062**	**0.066**	**1.2**	**1.1**	**19.8**	-	**2.2**	**7.6**	**1.2**	**1.1**	**3.8**
Ferrous Iron (mg/L)	**2.0**	**2.4**	< 0.20	**0.044**	**0.062**	**0.062**	**0.35**	**0.32**	**3.3**	-	**2.5**	**2.6**	**1.1**	**1.1**	**1.7**
Magnesium, Total (mg/L)	**24.3**	**23.7**	**22.6**	**22.0**	**23.1**	**24.3**	**14.0**	**13.6**	**17.6**	-	**13.3**	**30.5**	**31.9**	**41.0**	**43.9**
Manganese, Total (mg/L)	**0.69**	**0.67**	**0.28**	**0.27**	**0.34**	**0.36**	**0.55**	**0.60**	**1.0**	-	**4.4**	**5.0**	**5.3**	**1.1**	**2.2**
Potassium, Total (mg/L)	**4.5**	**4.5**	**3.1**	**3.0**	**3.3**	**3.4**	**11.6**	**11.7**	**12.4**	-	**16.7**	**3.3**	**3.7**	**5.3**	**6.1**
Sodium, Total (mg/L)	**188**	**184**	**179**	**177**	**181**	**187**	**169**	**170**	**163**	-	**49.0**	**259**	**264**	**369**	**293**
Phosphorus (mg/L)	**0.633**	**0.634**	**0.42**	**0.37**	**0.41**	**0.38**	**0.330**	**0.28**	**1.0**	-	**0.227**	**0.30**	**0.18**	**0.076**	**0.22**
Alkalinity, Total (as CaCO3) (mg/L)	**423**	**424**	**418**	**436**	**428**	**427**	**23.3**	**63.5**	**62.5**	-	**371**	**532**	**533**	**489**	**415**
Dissolved Organic Carbon (DOC) (mg/L)	< 1.0	< 1.0	< 1.0	**2.3**	**0.56**	**0.58**	< 1.0	**2.4**	**2.5**	-	**1.3**	**6.9**	**3.0**	**5.0**	**0.62**
Nitrite/Nitrate Nitrogen (mg/L)	-	-	**0.17**	**0.040**	-	-	-	**0.51**	-	-	-	**0.066**	-	**3.6**	-
Sulfide (mg/L)	**0.12**	**0.12**	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	**0.041**	**0.59**	-	< 0.050	< 0.050	< 0.050	**0.053**	**0.11**
Total Organic Carbon (TOC) (mg/L)	**1.1**	< 1.0	**1.2**	**1.2**	< 1.0	< 1.0	< 1.0	**1.1**	< 1.0	-	**1.4**	**3.3**	**1.3**	**2.4**	**0.62**
Hardness, Total (mg/L)	**441**	**433**	**422**	**411**	**428**	**448**	**519**	**513**	**523**	-	**160**	**518**	**534**	**726**	**804**
Nitrate (as N) (mg/L)	-	-	-	-	**0.27**	< 0.10	-	**0.54**	**0.13**	-	-	-	**3.6**	**-**	< 0.066
Nitrite (as N) (mg/L)	-	-	-	-	< 0.10	< 0.10	-	< 0.10	< 0.10	-	-	-	< 0.10	-	< 0.070

Notes:

Bold value: *Detection above laboratory reporting limit or minimum detectable concentration (MDC).*

Radiological results are presented as activity plus or minus uncertainty with MDC.

µS/cm = micro Siemens per centimeter

Deg C = degrees Celsius

ft btoc = feet below top of casing

mg/L = milligrams per liter

N/A = Not Applicable

NTU = Nephelometric Turbidity Unit

pCi/L = picoCuries per liter

su = standard unit

TDS = total dissolved solids

TOC = top of casing

TABLE III

SUMMARY OF ANALYTICAL RESULTS: 2025 NATURE AND EXTENT MONITORING

EVERGY KANSAS CENTRAL, INC.

TECUMSEH ENERGY CENTER, BOTTOM ASH SETTLING AREA

TECUMSEH, KANSAS

Location	Downgradient														
	MW-12		MW-13		MW-14		MW-12D			MW-15			MW-16		
Measure Point (TOC)	864.87		867.82		869.84		865.01			861.36			863.59		
Sample Name	MW-12-061225	MW-12-091525	MW-13-061225	MW-13-091525	MW-14-061225	MW-14-091625	MW-12D-031425	MW-12D-061225	MW-12D-091225	MW-15-031325	MW-15-061225	MW-15-091125	MW-16-031325	MW-16-061225	MW-16-091125
Sample Date	06/12/2025	09/15/2025	06/12/2025	09/15/2025	06/12/2025	09/16/2025	03/14/2025	06/12/2025	09/12/2025	03/13/2025	06/12/2025	09/11/2025	03/13/2025	06/12/2025	09/11/2025
Final Lab Report Date	7/16/2025	10/3/2025	7/16/2025	10/3/2025	7/16/2025	10/3/2025	4/7/2025	7/14/2025	10/2/2025	4/11/2025	7/14/2025	10/2/2025	4/11/2025	7/14/2025	10/2/2025
Final Lab Report Revision Date	-	10/13/2025	-	10/13/2025	-	10/13/2025	6/3/2025	-	-	-	-	-	-	-	-
Final Radiation Lab Report Date	7/16/2025	10/3/2025	7/16/2025	10/3/2025	7/16/2025	10/3/2025	4/14/2025	7/16/2025	10/8/2025	4/14/2025	7/16/2025	10/8/2025	4/14/2025	7/16/2025	10/8/2025
Final Radiation Lab Report Revision Date	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lab Data Reviewed and Accepted	8/28/2025	1/21/2026	8/28/2025	1/21/2026	8/28/2025	1/21/2026	6/17/2025	10/29/2025	1/21/2026	6/17/2025	10/29/2025	1/21/2026	6/17/2025	10/29/2025	1/21/2026
Depth to Water (ft btoc)	16.59	17.48	18.36	19.97	20.65	22.90	2.55	1.36	3.34	13.40	13.80	16.20	15.24	15.10	18.30
Temperature (Deg C)	25.70	26.83	30.36	30.16	22.13	19.34	13.25	20.56	21.72	16.99	17.84	19.43	18.13	17.21	19.01
Dissolved Oxygen, Field (mg/L)	4.22	0.00	4.24	0.13	5.60	0.00	0.00	6.73	1.08	5.24	0.00	0.33	0.00	0.00	0.00
Ferrous Iron, Field (mg/L)	1.85	> 3.00	0.99	2.18	0.14	> 3.00	0.02	0.08	0.00	0.00	0.04	0.71	0.98	2.48	> 3.00
ORP, Field (mV)	-22	-127	-10	-153	98	-127	-123	50	57	96	64	54	-109	-90	-119
Turbidity, Field (NTU)	64.5	20.1	83.0	34.4	20.7	20.1	5.3	0.0	0.0	24.6	17.1	169	54.8	10.8	63.4
pH, Field (su)	6.64	6.99	8.36	7.91	7.05	6.99	8.45	7.32	7.45	6.88	6.62	6.75	6.15	6.71	6.93
Conductivity, Field (µS/cm)	2170	2260	1790	1900	2380	2260	23900	20500	2150	1740	1610	1610	2180	1780	1870
Boron, Total (mg/L)	-	**0.44**	-	**1.1**	-	**0.91**	**2.4**	**2.2**	**2.3**	**0.14**	**0.11**	**0.14**	**0.57**	**0.53**	**0.59**
Calcium, Total (mg/L)	-	**203**	-	**197**	-	**184**	**167**	**159**	**159**	**237**	**223**	**245**	**219**	**210**	**222**
Chloride (mg/L)	-	**365**	-	**195**	-	**230**	**6840**	**7620**	**7900**	**142**	**277**	**170**	**166**	**168**	**198**
Fluoride (mg/L)	-	< 0.20	-	< 0.20	-	< 0.20	**0.20**	< 2.0	< 0.20	< 0.20	< 0.20	< 0.20	**0.34**	< 0.20	< 0.20
Sulfate (mg/L)	-	**337**	-	**660**	-	**498**	**928**	**1100**	**1230**	**112**	**161**	**116**	**277**	**248**	**245**
pH (lab) (su)	-	**6.8**	-	**7.8**	-	**7.4**	**7.4**	**7.2**	**7.4**	**6.9**	**6.8**	**6.9**	**7.3**	**7.1**	**6.9**
Total Dissolved Solids (TDS) (mg/L)	-	**1500**	-	**1400**	-	**1460**	**12100**	**13700**	**13700**	**907**	**1030**	**1010**	**1260**	**1210**	**1180**
Antimony, Total (mg/L)	< 0.0010	-	< 0.0010	-	< 0.0010	-	-	-	-	-	-	-	-	-	-
Arsenic, Total (mg/L)	**0.0034**	**0.013**	**0.025**	**0.0074**	**0.0014**	**0.0018**	< 0.0050	**0.0020**	< 0.010	**0.0021**	**0.0017**	**0.00069**	**0.016**	**0.019**	**0.016**
Barium, Total (mg/L)	**0.088**	**0.070**	**0.090**	**0.066**	**0.031**	**0.030**	**0.069**	**0.068**	**0.054**	**0.076**	**0.093**	**0.086**	**0.084**	**0.071**	**0.074**
Beryllium, Total (mg/L)	< 0.00050	-	< 0.00050	-	< 0.00050	-	-	-	-	-	-	-	-	-	-
Cadmium, Total (mg/L)	< 0.00050	-	< 0.00050	-	< 0.00050	-	-	-	-	-	-	-	-	-	-
Chromium, Total (mg/L)	< 0.0010	< 0.0010	**0.0018**	0.0015	< 0.0010	**0.0016**	-	-	< 0.010	-	-	**0.00065**	-	-	**0.0021**
Cobalt, Total (mg/L)	**0.033**	**0.030**	< 0.0010	< 0.0010	< 0.0010	**0.0010**	< 0.010	**0.0025**	**0.0022**	**0.0012**	**0.0011**	**0.00037**	**0.0043**	**0.0041**	**0.0044**
Lead, Total (mg/L)	**0.0012**	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	-	-	< 0.010	-	-	< 0.0010	-	-	**0.00096**
Lithium, Total (mg/L)	**0.027**	**0.035**	< 0.010	**0.017**	**0.034**	**0.042**	**0.18**	**0.204**	**0.21**	**0.030**	**0.0337**	**0.035**	**0.020**	**0.0198**	**0.019**
Molybdenum, Total (mg/L)	**0.0046**	**0.0051**	**0.066**	**0.044**	**0.029**	**0.023**	< 0.0050	**0.0018**	< 0.010	**0.0016**	**0.0016**	**0.0013**	**0.0046**	**0.0045**	**0.0049**
Selenium, Total (mg/L)	< 0.0010	< 0.0010	< 0.0010	**0.0012**	**0.0060**	**0.0020**	-	-	< 0.010	-	-	**0.00043**	-	-	**0.00052**
Thallium, Total (mg/L)	< 0.0010	-	< 0.0010	-	< 0.0010	-	-	-	-	-	-	-	-	-	-
Mercury, Total (mg/L)	< 0.00020	-	< 0.00020	-	< 0.00020	-	-	-	-	-	-	-	-	-	-
Fluoride (mg/L)	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	**0.20**	< 2.0	< 0.20	< 0.20	< 0.20	< 0.20	**0.34**	< 0.20	< 0.20
Radium-226 & 228 (pCi/L)	**1.84 ± 0.742 (0.897)**	**1.70 ± 0.711 (0.985)**	0.483 ± 0.688 (1.08)	0.431 ± 0.620 (1.14)	**2.37 ± 0.658 (0.666)**	**0.962 ± 0.654 (0.897)**	**15.4 ± 2.29 (0.918)**	**13.8 ± 2.28 (1.34)**	**12.8 ± 2.14 (0.788)**	**2.16 ± 0.797 (0.947)**	**1.72 ± 0.841 (1.04)**	**1.76 ± 0.657 (0.796)**	**1.92 ± 0.908 (1.28)**	0.845 ± 0.659 (0.940)	**1.33 ± 0.608 (0.731)**
Aluminum, Dissolved (mg/L)	< 0.050	< 0.0082	< 0.050	< 0.0082	< 0.050	< 0.0082	< 0.25	< 0.10	< 0.50	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Arsenic, Dissolved (mg/L)	**0.0024**	**0.012**	**0.21**	**0.0066**	**0.0013**	**0.0014**	< 0.0050	**0.0011**	< 0.010	**0.0020**	**0.0012**	**0.00047**	**0.014**	**0.013**	**0.015**
Cobalt, Dissolved (mg/L)	**0.031**	**0.028**	< 0.0010	**0.00045**	< 0.0010	**0.00045**	< 0.0050	**0.0014**	**0.0020**	**0.0014**	**0.0011**	**0.00029**	**0.0032**	**0.0035**	**0.0034**
Iron, Dissolved (mg/L)	**1.4**	**5.7**	< 0.050	**0.06**	< 0.050	**0.0055**	< 0.25	< 0.10	< 0.50	**0.60**	**0.18**	**0.011**	**5.6**	**5.2**	**5.3**
Magnesium, Dissolved (mg/L)	**38.8**	**36.1**	**2.1**	**7.3**	**22.6**	**24.6**	**104**	**105**	**100**	**30.5**	**32.3**	**37.4**	**30.5**	**30.0**	**28.1**
Manganese, Dissolved (mg/L)	**1.2**	**1.7**	**0.035**	**0.21**	**0.052**	**0.15**	**0.11**	**0.14**	**0.14**	**0.49**	**0.33**	**0.10**	**2.4**	**2.4**	**2.6**
Aluminum, Total (mg/L)	**0.19**	**0.049**	**0.4**	**0.69**	**0.19**	**0.79**	**0.60**	**0.82**	**0.24**	**0.16**	**0.22**	**0.15**	**1.8**	**0.33**	**1.2**
Iron, Total (mg/L)	**2.5**	**6.3**	**0.88**	**1.1**	**0.45**	**1.4**	**0.96**	**1.5**	**0.29**	**0.86**	**0.87**	**0.50**	**7.1**	**7.2**	**6.9**
Ferrous Iron (mg/L)	**3.5**	**5.5**	**1.2**	**0.69**	< 0.20	**0.44**	**0.22**	**0.12**	**0.14**	**1.1**	**0.68**	**0.47**	**11.4**	**8.0**	**6.4**
Magnesium, Total (mg/L)	**39.5**	**36.2**	**2.8**	**6.4**	**21.8**	**23.8**	**102**	**95.4**	**97.8**	**34.0**	**29.5**	**35.9**	**32.1**	**28.6**	**31.6**
Manganese, Total (mg/L)	**1.3**	**1.7**	**0.067**	**0.20**	**0.079**	**0.17**	**0.14**	**0.19**	**0.16**	**0.22**	**0.33**	**0.13**	**2.1**	**2.6**	**2.8**
Potassium, Total (mg/L)	**5.0**	**4.2**	**29.8**	**29.6**	**10.7**	**9.7**	**16.7**	**16.3**	**15.1**	**6.5**	**4.8**	**5.7**	**3.9**	**2.1**	**2.9**
Sodium, Total (mg/L)	**250**	**255**	**191**	**184**	**265**	**245**	**5050**	**4830**	**4770**	**71.9**	**63.2**	**69.0**	**189**	**171**	**168**
Phosphorus (mg/L)	**0.18**	**0.27**	**0.15**	**0.29**	**0.12**	**0.22**	< 0.100	< 0.050	**0.082**	< 0.100	< 0.055	**0.094**	**0.409**	**0.49**	**0.39**
Alkalinity, Total (as CaCO3) (mg/L)	**468**	**417**	**32.5**	**55.1**	**241**	**320**	**181**	**205**	**202**	**561**	**567**	**568**	**529**	**526**	**515**
Dissolved Organic Carbon (DOC) (mg/L)	**6.6**	**2.8**	**3.1**	**0.98**	**1.4**	**0.82**	< 1.0	< 1.0	< 1.0	**1.4**	**1.6**	**2.1**	**2.5**	**5.3**	**1.8**
Nitrite/Nitrate Nitrogen (mg/L)	**0.34**	-	**0.060**	-	**4.8**	-	-	**2.6**	-	-	-	-	-	-	-
Sulfide (mg/L)	**0.029**	< 0.016	**0.028**	**0.034**	< 0.016	**0.04**	< 0.050	< 0.050	< 0.050	< 0.050	**0.061**	< 0.050	**0.13**	< 0.050	**0.038**
Total Organic Carbon (TOC) (mg/L)	**9.0**	**1.5**	**2.8**	**0.8**	**1.3**	**0.83**	< 1.0	< 1.0	< 1.0	< 1.0	**1.4**	< 1.0	**2.6**	**5.4**	**1.0**
Hardness, Total (mg/L)	**712**	**665**	**495**	**518**	**593**	**545**	-	**790**	**800**	-	**679**	**759**	-	**643**	**685**
Nitrate (as N) (mg/L)	-	< 0.066	-	**0.35**	-	**1.2**	-	-	**1.5**	-	< 0.10	< 0.10	-	< 0.10	**0.056**
Nitrite (as N) (mg/L)	-	< 0.070	-	< 0.070	-	< 0.070	-	-	< 1.0	-	< 0.10	< 0.10	-	< 0.10	< 0.10

Notes:

Bold value: *Detection above laboratory reporting limit or minimum detectable concentration (MDC).*

Radiological results are presented as activity plus or minus uncertainty with MDC.

µS/cm = micro Siemens per centimeter

Deg C = degrees Celsius

ft btoc = feet below top of casing

mg/L = milligrams per liter

N/A = Not Applicable

NTU = Nephelometric Turbidity Unit

pCi/L = picoCuries per liter

su = standard unit

TDS = total dissolved solids

TOC = top of casing

TABLE III

SUMMARY OF ANALYTICAL RESULTS: 2025 NATURE AND EXTENT MONITORING

EVERGY KANSAS CENTRAL, INC.

TECUMSEH ENERGY CENTER, BOTTOM ASH SETTLING AREA

TECUMSEH, KANSAS

Location	Downgradient														
	MW-17			MW-18					MW-19				MW-20		
Measure Point (TOC)	865.00			888.42					879.65				878.59		
Sample Name	MW-17-031325	MW-17-061225	MW-17-091125	MW-18-031225	TEC-BASA-PERIMETER-DUP-031225	MW-18-061125	MW-18-091525	TEC-BASA-PERIMETER-DUP-091525	MW-19-031225	MW-19-061125	TEC-BASA-PERIMETER-DUP-061125	MW-19-091125	MW-20-031325	MW-20-061125	MW-20-091125
Sample Date	03/13/2025	06/12/2025	09/11/2025	03/12/2025	03/12/2025	06/11/2025	09/15/2025	09/15/2025	03/12/2025	06/11/2025	06/11/2025	09/11/2025	03/13/2025	06/11/2025	09/11/2025
Final Lab Report Date	4/11/2025	7/14/2025	10/2/2025	4/11/2025	4/11/2025	7/14/2025	10/2/2025	10/2/2025	4/11/2025	7/14/2025	7/14/2025	10/2/2025	4/7/2025	7/14/2025	10/2/2025
Final Lab Report Revision Date	-	-	-	-	-	-	-	-	-	-	-	-	6/3/2025	-	-
Final Radiation Lab Report Date	4/14/2025	7/16/2025	10/8/2025	4/14/2025	4/14/2025	7/16/2025	10/8/2025	10/8/2025	4/14/2025	7/16/2025	7/16/2025	10/8/2025	4/14/2025	7/16/2025	10/8/2025
Final Radiation Lab Report Revision Date	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lab Data Reviewed and Accepted	6/17/2025	10/29/2025	1/21/2026	6/17/2025	6/17/2025	10/29/2025	1/21/2026	1/21/2026	6/17/2025	10/29/2025	10/29/2025	1/21/2026	6/17/2025	10/29/2025	1/21/2026
Depth to Water (ft btoc)	17.00	16.79	21.03	33.31	33.31	32.39	33.86	33.86	23.90	23.45	23.45	28.97	18.71	17.41	13.08
Temperature (Deg C)	14.12	18.20	20.92	19.01	-	21.17	20.42	-	23.29	20.20	-	18.87	20.33	24.38	21.87
Dissolved Oxygen, Field (mg/L)	1.29	0.00	0.00	0.00	-	0.00	0.00	-	0.00	5.04	-	0.00	3.81	0.00	0.58
Ferrous Iron, Field (mg/L)	0.00	0.13	0.91	0.21	-	0.37	3.09	-	1.52	2.32	-	2.83	0.05	0.22	0.22
ORP, Field (mV)	79	162	60	-45	-	18	185	-	45	-47	-	-70	-1	-9	-14
Turbidity, Field (NTU)	9.6	13.6	36.3	10.6	-	16.8	13.4	-	9.4	28.4	-	0.0	3.1	6.0	6.1
pH, Field (su)	7.56	6.68	6.99	6.55	-	6.63	6.47	-	6.59	6.41	-	6.64	6.38	7.43	7.48
Conductivity, Field (µS/cm)	1460	1200	1250	1870	-	1610	1490	-	1910	2320	-	2320	22700	1920	2080
Boron, Total (mg/L)	**0.54**	**0.50**	**0.54**	**0.52**	**0.54**	**0.58**	**0.52**	**0.52**	**0.49**	**0.50**	**0.51**	**0.46**	**2.4**	**2.4**	**2.4**
Calcium, Total (mg/L)	**164**	**165**	**164**	**221**	**226**	**214**	**254**	**248**	**388**	**431**	**445**	**472**	**141**	**143**	**135**
Chloride (mg/L)	**32.4**	**26.5**	**24.7**	**91.1**	**91.3**	**93.3**	**89.3**	**90.7**	**34.0**	**35.1**	**28.3**	**40.6**	**6130**	**7470**	**7260**
Fluoride (mg/L)	**0.22**	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	**0.25**	< 0.20	< 0.20	< 0.20	**0.24**	< 2.0	< 0.20
Sulfate (mg/L)	**296**	**272**	**276**	**305**	**306**	**300**	**327**	**327**	**1300**	**3080**	**2930**	**1020**	**917**	**1110**	**1280**
pH (lab) (su)	**7.0**	**7.2**	**7.1**	**1.5**	**7.0**	**6.7**	**6.9**	**7.0**	**6.7**	**6.4**	**6.4**	**6.7**	**7.6**	**7.0**	**7.4**
Total Dissolved Solids (TDS) (mg/L)	**876**	**873**	**880**	**967**	**1140**	**1150**	**1220**	**1220**	**2420**	**2350**	**2350**	**2330**	**13800**	**12700**	**13000**
Antimony, Total (mg/L)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic, Total (mg/L)	**0.0011**	**0.0012**	**0.0013**	**0.0018**	**0.0018**	**0.0030**	**0.013**	**0.012**	**0.011**	**0.027**	**0.028**	**0.038**	< 0.0050	**0.0012**	**0.0013**
Barium, Total (mg/L)	**0.069**	**0.092**	**0.084**	**0.16**	**0.16**	**0.16**	**0.21**	**0.20**	**0.044**	**0.27**	**0.28**	**0.53**	**0.058**	**0.051**	**0.051**
Beryllium, Total (mg/L)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium, Total (mg/L)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium, Total (mg/L)	-	-	**0.0012**	-	-	-	**0.022**	**0.020**	-	-	-	**0.053**	-	-	< 0.010
Cobalt, Total (mg/L)	< 0.0010	**0.0019**	**0.0015**	**0.0012**	**0.0012**	**0.0023**	**0.016**	**0.015**	**0.011**	**0.028**	**0.029**	**0.087**	< 0.010	**0.0014**	< 0.010
Lead, Total (mg/L)	-	-	**0.00071**	-	-	-	**0.014**	**0.013**	-	-	-	**0.055**	-	-	< 0.010
Lithium, Total (mg/L)	**0.027**	**0.0309**	**0.031**	**0.043**	**0.039**	**0.0378**	**0.053**	**0.057**	**0.031**	**0.0509**	**0.0519**	**0.10**	**0.17**	**0.18**	**0.19**
Molybdenum, Total (mg/L)	**0.0065**	**0.0086**	**0.0085**	**0.0066**	**0.0064**	**0.0084**	**0.0076**	**0.0075**	**0.0016**	**0.0017**	**0.0019**	**0.0025**	< 0.0050	**0.0017**	**0.0018**
Selenium, Total (mg/L)	-	-	**0.057**	-	-	-	**0.0038**	**0.0033**	-	-	-	**0.025**	-	-	< 0.010
Thallium, Total (mg/L)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury, Total (mg/L)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluoride (mg/L)	**0.22**	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	**0.25**	< 0.20	< 0.20	< 0.20	**0.24**	< 2.0	< 0.20
Radium-226 & 228 (pCi/L)	**1.86 ± 0.815 (0.967)**	**2.42 ± 0.883 (1.07)**	**1.83 ± 0.743 (0.915)**	**0.943 ± 0.640 (0.878)**	**1.17 ± 0.620 (0.821)**	**2.26 ± 0.832 (1.04)**	**1.23 ± 0.554 (0.709)**	**0.857 ± 0.493 (0.664)**	**1.29 ± 0.734 (1.07)**	**2.42 ± 0.894 (1.04)**	**2.01 ± 0.820 (1.03)**	**1.71 ± 0.809 (1.12)**	**12.1 ± 1.89 (0.831)**	**12.4 ± 2.07 (1.37)**	**12.8 ± 2.03 (0.773)**
Aluminum, Dissolved (mg/L)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.25	**0.018**	< 0.50
Arsenic, Dissolved (mg/L)	**0.0011**	< 0.0010	**0.00081**	**0.0015**	**0.0014**	**0.0014**	**0.0013**	**0.0013**	**0.011**	**0.011**	**0.011**	**0.010**	< 0.0050	**0.00072**	< 0.010
Cobalt, Dissolved (mg/L)	< 0.0010	< 0.0010	**0.00037**	< 0.0010	< 0.0010	< 0.0010	**0.0013**	**0.0012**	**0.0089**	**0.0094**	**0.0096**	**0.012**	< 0.0050	**0.00067**	< 0.010
Iron, Dissolved (mg/L)	< 0.050	< 0.050	**0.0049**	**0.30**	**0.31**	**0.23**	**0.11**	**0.12**	**7.0**	**7.0**	**7.2**	**6.4**	< 0.25	**0.017**	< 0.50
Magnesium, Dissolved (mg/L)	**23.7**	**23.1**	**23.1**	**24.6**	**23.6**	**22.5**	**25.4**	**25.6**	**62.9**	**64.1**	**62.0**	**60.8**	**85.7**	**79.9**	**77.7**
Manganese, Dissolved (mg/L)	**0.097**	**0.19**	**0.81**	**2.5**	**2.4**	**2.1**	**2.3**	**2.2**	**3.3**	**3.2**	**3.3**	**4.2**	**0.21**	**0.17**	**0.096**
Aluminum, Total (mg/L)	**0.12**	**0.57**	**0.63**	**0.25**	**0.28**	**1.3**	**12.7**	**11.4**	**1.8**	**19.5**	**19.9**	**40.3**	< 0.50	**0.61**	**0.25**
Iron, Total (mg/L)	**0.21**	**1.1**	**0.98**	**0.71**	**0.74**	**2.7**	**18.5**	**17.3**	**8.1**	**46.7**	**49.2**	**87.9**	**0.64**	**0.84**	**0.56**
Ferrous Iron (mg/L)	< 0.20	< 0.20	**0.46**	**0.59**	**0.62**	**0.79**	**4.5**	**4.4**	**10.5**	**22.8**	**24.3**	**36.5**	**0.35**	**0.32**	**0.39**
Magnesium, Total (mg/L)	**23.2**	**22.7**	**23.4**	**23.2**	**23.6**	**22.1**	**29.0**	**28.7**	**61.6**	**68.2**	**71.2**	**77.5**	**83.8**	**84.1**	**80.9**
Manganese, Total (mg/L)	**0.43**	**1.5**	**1.3**	**2.3**	**2.3**	**2.4**	**2.8**	**2.6**	**2.9**	**4.1**	**4.1**	**7.1**	**0.22**	**0.19**	**0.11**
Potassium, Total (mg/L)	**6.6**	**6.2**	**6.7**	**20.6**	**21.0**	**18.2**	**21.0**	**20.6**	**8.7**	**12.0**	**12.6**	**14.9**	**16.1**	**16.1**	**14.5**
Sodium, Total (mg/L)	**95.2**	**94.3**	**90.3**	**103**	**106**	**116**	**102**	**103**	**131**	**126**	**128**	**116**	**4940**	**4660**	**4620**
Phosphorus (mg/L)	**0.240**	**0.27**	**0.30**	**0.169**	**0.171**	**0.24**	**0.87**	**0.76**	**0.809**	**1.6**	**1.5**	**4.7**	< 0.100	**0.12**	< 0.10
Alkalinity, Total (as CaCO3) (mg/L)	**388**	**385**	**415**	**499**	**502**	**497**	**499**	**493**	**297**	**308**	**298**	**308**	**234**	**235**	**226**
Dissolved Organic Carbon (DOC) (mg/L)	**1.5**	**2.4**	**3.7**	**1.4**	**5.0**	**1.7**	**1.1**	**2.0**	< 1.0	**2.7**	**2.8**	**2.9**	< 1.0	< 1.0	< 1.0
Nitrite/Nitrate Nitrogen (mg/L)	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.10	-
Sulfide (mg/L)	< 0.050	< 0.050	**0.029**	< 0.050	< 0.050	**0.061**	**0.26**	**0.27**	**0.074**	**1.3**	**1.2**	**3.2**	< 0.050	**0.023**	< 0.050
Total Organic Carbon (TOC) (mg/L)	**1.4**	**2.4**	**1.5**	< 1.0	< 1.0	**1.7**	**1.1**	**0.89**	**1.8**	**2.7**	**2.7**	**1.7**	< 1.0	< 1.0	< 1.0
Hardness, Total (mg/L)	-	**505**	**506**	-	-	**625**	**753**	**738**	-	**1360**	**1400**	**1500**	-	**705**	**672**
Nitrate (as N) (mg/L)	-	**1.3**	**0.95**	-	-	< 0.10	< 0.10	< 0.10	-	< 0.10	< 0.10	**0.94**	-	-	**0.59**
Nitrite (as N) (mg/L)	-	< 0.10	< 0.10	-	-	< 0.10	< 0.10	< 0.10	-	< 0.10	< 0.10	**0.86**	-	-	< 1.0

Notes:

Bold value: *Detection above laboratory reporting limit or minimum detectable concentration (MDC).*

Radiological results are presented as activity plus or minus uncertainty with MDC.

µS/cm = micro Siemens per centimeter

Deg C = degrees Celsius

ft btoc = feet below top of casing

mg/L = milligrams per liter

N/A = Not Applicable

NTU = Nephelometric Turbidity Unit

pCi/L = picoCuries per liter

su = standard unit

TDS = total dissolved solids

TOC = top of casing

TABLE III

SUMMARY OF ANALYTICAL RESULTS: 2025 NATURE AND EXTENT MONITORING

EVERGY KANSAS CENTRAL, INC.

TECUMSEH ENERGY CENTER, BOTTOM ASH SETTLING AREA

TECUMSEH, KANSAS

Location	Downgradient											
	MW-21			MW-22			MW-23	MW-24	MW-25		MW-26	MW-27
Measure Point (TOC)	863.61			864.78			871.82	871.30	869.23		859.56	888.66
Sample Name	MW-21-031425	MW-21-061225	MW-21-091125	MW-22-031425	MW-22-061225	MW-22-091125	MW-23-110425	MW-24-110425	MW-25-110425	TEC-NEW N&E DUP-110425	MW-26-110425	MW-27-110325
Sample Date	03/14/2025	06/12/2025	09/11/2025	03/14/2025	06/12/2025	09/11/2025	11/04/2025	11/04/2025	11/04/2025	11/04/2025	11/04/2025	11/03/2025
Final Lab Report Date	4/7/2025	7/14/2025	10/2/2025	4/7/2025	7/14/2025	10/2/2025	11/20/2025	11/20/2025	11/20/2025	11/20/2025	11/20/2025	11/20/2025
Final Lab Report Revision Date	6/3/2025	-	-	6/3/2025	-	-	12/3/2025	12/3/2025	12/3/2025	12/3/2025	12/3/2025	12/3/2025
Final Radiation Lab Report Date	4/14/2025	7/16/2025	10/8/2025	4/14/2025	7/16/2025	10/8/2025	12/1/2025	12/1/2025	12/1/2025	12/1/2025	12/1/2025	12/1/2025
Final Radiation Lab Report Revision Date	-	-	-	-	-	-	-	-	-	-	-	-
Lab Data Reviewed and Accepted	6/17/2025	10/29/2025	1/21/2026	6/17/2025	10/29/2025	1/21/2026	1/21/2026	1/21/2026	1/21/2026	1/21/2026	1/21/2026	1/21/2026
Depth to Water (ft btoc)	2.13	1.51	1.53	6.71	6.10	8.46	23.36	22.20	19.95	19.95	11.70	33.73
Temperature (Deg C)	14.97	19.34	19.58	16.07	22.69	20.31	17.10	17.90	16.90	-	15.60	18.80
Dissolved Oxygen, Field (mg/L)	1.28	0.00	1.43	0.00	0.00	0.00	1.46	2.84	3.22	-	4.11	0.93
Ferrous Iron, Field (mg/L)	0.02	0.04	0.14	0.16	0.19	0.32	0.00	0.14	0.39	-	0.61	0.32
ORP, Field (mV)	9	52	163	-158	97	-95	47	88	94	-	14	147
Turbidity, Field (NTU)	0.5	38.4	3.5	3.6	5.5	63.3	68.5	32.9	40.8	-	51.5	58.0
pH, Field (su)	6.80	7.19	7.34	7.74	7.27	7.51	6.86	6.75	6.85	-	6.81	6.80
Conductivity, Field (µS/cm)	23300	20600	2250	23100	19500	2090	1185	1156	1424	-	1621	1465
Boron, Total (mg/L)	**2.3**	**2.2**	**2.4**	**2.5**	**2.4**	**2.2**	**0.28**	**0.11**	**0.41**	**0.41**	**0.45**	**0.66**
Calcium, Total (mg/L)	**174**	**168**	**176**	**138**	**146**	**123**	**198**	**194**	**224**	**221**	**220**	**154**
Chloride (mg/L)	**8020**	**8270**	**8480**	**7570**	**7890**	**7930**	**143**	**162**	**117**	**156**	**193**	**89.4**
Fluoride (mg/L)	**0.21**	< 2.0	< 0.20	**0.22**	< 2.0	< 0.20	< 0.20	**0.22**	< 0.20	< 0.20	**0.23**	< 0.20
Sulfate (mg/L)	**929**	**1160**	**1290**	**1170**	**1180**	**1280**	**93.7**	**81.4**	**250**	**350**	**288**	**320**
pH (lab) (su)	**7.2**	**7.4**	**7.4**	**7.5**	**7.2**	**7.2**	**7.1**	**7.0**	**7.1**	**7.1**	**6.9**	**7.2**
Total Dissolved Solids (TDS) (mg/L)	**14400**	**13400**	**14200**	**12700**	**12700**	**13700**	**909**	**797**	**1160**	**1170**	-	**1160**
Antimony, Total (mg/L)	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic, Total (mg/L)	< 0.0050	**0.0017**	< 0.010	< 0.0050	**0.0018**	**0.0014**	**0.0090**	**0.0012**	**0.0010**	< 0.0010	**0.0029**	**0.0022**
Barium, Total (mg/L)	**0.11**	**0.089**	**0.094**	**0.052**	**0.081**	**0.056**	**0.32**	**0.098**	**0.081**	**0.080**	**0.16**	**0.10**
Beryllium, Total (mg/L)	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium, Total (mg/L)	-	-	-	-	-	-	-	-	-	-	-	-
Chromium, Total (mg/L)	-	-	< 0.010	-	-	< 0.010	**0.018**	**0.0012**	**0.0019**	**0.0016**	< 0.0010	< 0.0010
Cobalt, Total (mg/L)	< 0.010	**0.0017**	**0.0029**	< 0.0050	**0.0017**	**0.0019**	**0.0083**	< 0.0010	< 0.0010	< 0.0010	**0.0035**	**0.0014**
Lead, Total (mg/L)	-	-	< 0.010	-	-	< 0.010	**0.0089**	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
Lithium, Total (mg/L)	**0.19**	**0.212**	**0.19**	**0.17**	**0.188**	**0.19**	**0.032**	**0.024**	**0.026**	**0.028**	**0.022**	**0.032**
Molybdenum, Total (mg/L)	< 0.0050	**0.0031**	**0.0029**	< 0.0050	**0.0035**	**0.0017**	**0.0066**	**0.0067**	**0.0024**	**0.0024**	**0.0056**	**0.039**
Selenium, Total (mg/L)	-	-	< 0.010	-	-	< 0.010	**0.0081**	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
Thallium, Total (mg/L)	-	-	-	-	-	-	-	-	-	-	-	-
Mercury, Total (mg/L)	-	-	-	-	-	-	-	-	-	-	-	-
Fluoride (mg/L)	**0.21**	< 2.0	< 0.20	**0.22**	< 2.0	< 0.20	< 0.20	**0.22**	< 0.20	< 0.20	**0.23**	< 0.20
Radium-226 & 228 (pCi/L)	**18.3 ± 2.49 (0.717)**	**17.2 ± 2.71 (1.74)**	**15.0 ± 2.30 (0.705)**	**12.1 ± 1.99 (0.732)**	**12.8 ± 2.18 (1.50)**	**14.1 ± 2.18 (0.870)**	**1.63 ± 0.669 (1.01)**	0.213 ± 0.527 (0.957)	**0.904 ± 0.528 (0.830)**	0.513 ± 0.556 (0.997)	-	0.835 ± 0.634 (1.01)
Aluminum, Dissolved (mg/L)	< 0.25	< 0.10	< 0.50	< 0.25	< 0.10	< 0.50	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	**0.057**
Arsenic, Dissolved (mg/L)	< 0.0050	**0.0010**	< 0.010	< 0.0050	**0.0012**	< 0.010	**0.0014**	< 0.0010	< 0.0010	< 0.0010	**0.0040**	**0.0022**
Cobalt, Dissolved (mg/L)	< 0.0050	**0.00054**	**0.0039**	< 0.0050	**0.0013**	**0.0017**	**0.0014**	< 0.0010	< 0.0010	< 0.0010	**0.0043**	**0.0015**
Iron, Dissolved (mg/L)	< 0.25	**0.038**	< 0.50	**0.25**	**0.013**	< 0.50	< 0.050	< 0.050	< 0.050	< 0.050	**0.091**	**0.056**
Magnesium, Dissolved (mg/L)	**111**	**107**	**104**	**82.5**	**77.5**	**81.8**	**26.6**	**23.6**	**25.2**	**24.7**	**38.7**	**21.6**
Manganese, Dissolved (mg/L)	**0.10**	**0.053**	**0.24**	**0.12**	**0.14**	**0.14**	**0.92**	**0.62**	**0.029**	**0.024**	**2.7**	**1.5**
Aluminum, Total (mg/L)	< 0.50	**0.12**	**0.11**	**0.39**	**0.84**	**0.53**	**13.4**	**0.35**	**0.71**	**0.61**	**0.10**	< 0.050
Iron, Total (mg/L)	< 0.50	**0.35**	**0.17**	**0.55**	**1.0**	**0.77**	**20.8**	**0.47**	**1.0**	**0.97**	**0.65**	**0.067**
Ferrous Iron (mg/L)	< 0.20	**0.044**	**0.11**	**0.62**	**0.30**	**0.45**	**1.2**	**0.32**	**0.43**	**0.46**	**0.53**	**1.1**
Magnesium, Total (mg/L)	**107**	**101**	**108**	**82.9**	**80.7**	**71.4**	**29.2**	**23.8**	**24.8**	**24.4**	**36.8**	**22.0**
Manganese, Total (mg/L)	**0.12**	**0.12**	**0.19**	**0.14**	**0.16**	**0.14**	**1.7**	**0.61**	**0.071**	**0.072**	**2.6**	**1.5**
Potassium, Total (mg/L)	**18.1**	**17.5**	**17.5**	**16.2**	**17.1**	**13.6**	**12.0**	**5.9**	**2.4**	**2.4**	**6.7**	**3.7**
Sodium, Total (mg/L)	**5160**	**5050**	**5140**	**4990**	**4670**	**4220**	**77.5**	**65.4**	**133**	**132**	**179**	**205**
Phosphorus (mg/L)	< 0.100	< 0.050	< 0.10	< 0.100	< 0.074	**0.12**	**1.5**	**0.24**	< 0.10	< 0.10	-	**0.41**
Alkalinity, Total (as CaCO3) (mg/L)	**183**	**175**	**199**	**197**	**210**	**216**	**443**	**389**	**235**	**396**	**559**	**395**
Dissolved Organic Carbon (DOC) (mg/L)	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**2.1**	< 1.0	**1.7**	< 1.0	**4.8**	< 1.0
Nitrite/Nitrate Nitrogen (mg/L)	-	**5.7**	-	-	**2.8**	-	**0.83**	**3.0**	**0.30**	**0.32**	-	< 0.10
Sulfide (mg/L)	< 0.050	< 0.050	< 0.050	0.050 R	**0.034**	**0.018**	**0.60**	< 0.050	< 0.050	< 0.050	< 0.050	**0.075**
Total Organic Carbon (TOC) (mg/L)	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	-	< 1.0
Hardness, Total (mg/L)	-	**835**	**885**	-	**696**	**600**	**615**	**582**	**662**	**652**	**700**	**475**
Nitrate (as N) (mg/L)	-	-	**12.2**	-	-	**0.48**	**0.50**	**2.5**	**0.23**	**0.22**	**0.15**	< 0.10
Nitrite (as N) (mg/L)	-	-	< 0.50	-	-	< 1.0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10

Notes:

Bold value: *Detection above laboratory reporting limit or minimum detectable concentration (MDC).*

Radiological results are presented as activity plus or minus uncertainty with MDC.

µS/cm = micro Siemens per centimeter

Deg C = degrees Celsius

ft btoc = feet below top of casing

mg/L = milligrams per liter

N/A = Not Applicable

NTU = Nephelometric Turbidity Unit

pCi/L = picoCuries per liter

su = standard unit

TDS = total dissolved solids

TOC = top of casing

TABLE IV
SUMMARY OF ANALYTICAL RESULTS - BASELINE GROUNDWATER MONITORING SAMPLING
EVERGY KANSAS CENTRAL, INC.
TECUMSEH ENERGY CENTER, BOTTOM ASH SETTLING AREA
TECUMSEH, KANSAS

Location	Downgradient									
	TEC-MW-11A									
Measure Point (TOC)	866.6									
Sample Name	MW-11A-121323	TEC-BASA-DUP-121323	MW-11A-013124	TEC-BASA-DUP-1-013124	MW-11A-031124	MW-11A-052924	MW-11A-071124	MW-11A-091224	MW-11A-112624	MW-11A-012225
Sample Date	12/13/2023	12/13/2023	01/31/2024	01/31/2024	03/11/2024	05/29/2024	07/11/2024	09/11/2024	11/26/2024	01/22/2025
Final Lab Report Date	1/30/2024	1/30/2024	2/19/2024	2/19/2024	3/26/2024	6/23/2024	7/31/2024	9/30/2024	12/23/2024	2/4/2025
Final Lab Report Revision Date	2/21/2024	2/21/2024	N/A	N/A	N/A	N/A	N/A	12/4/2024	2/7/2025	N/A
Final Radiation Lab Report Date	1/9/2024	1/9/2024	2/21/2024	2/21/2024	4/3/2024	7/1/2024	7/31/2024	10/14/2024	12/23/2024	2/11/2025
Final Radiation Lab Report Revision Date	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3/20/2025
Lab Data Reviewed and Accepted	3/4/2024	3/4/2024	7/12/2024	7/12/2024	8/5/2024	9/11/2024	9/13/2024	3/19/2025	3/18/2025	4/1/2025
Depth to Water (ft btoc)	19.18	-	18.31	-	17.28	18.46	17.48	19.04	18.90	18.57
Temperature (Deg C)	11.60	-	17.35	-	19.17	17.49	23.60	22.54	6.03	4.20
Conductivity (µS/cm)	2500	-	2250	-	2450	3660	2380	2520	3420	3380
Turbidity (NTU)	76.8	-	29.2	-	26.0	2.6	51.1	42.8	19.5	27.3
pH , Field (su)	7.21	-	6.69	-	6.67	7.69	6.79	7.13	7.02	7.20
Dissolved Oxygen, Field (mg/L)	0.07	-	0.00	-	0.09	0.00	0.00	0	0	0.00
Oxygen Reduction Potential, Field (mv)	-128	-	-69	-	-74	-136	-152	-74	-99	-46
Ferrous Iron, Field (mg/L)	-	-	2.90	-	2.22	1.31	1.74	Above Limit	-	-
Boron, Total (mg/L)	**0.45**	**0.44**	**0.48**	**0.46**	**0.50**	**0.42**	**0.40**	**0.38**	**0.37**	**0.41**
Calcium, Total (mg/L)	**231**	**221**	**235**	**226**	**221**	**224**	**238**	**239**	**241**	**233**
Chloride (mg/L)	**383**	**359**	**352**	**367**	**321**	**551**	**384**	**423**	**569**	**450**
Fluoride (mg/L)	**0.22**	**0.45**	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	**0.27**	**0.36**	< 0.20
Sulfate (mg/L)	**410**	**415**	**434**	**429**	**399**	**544**	**381**	**360**	**341**	**389**
pH (su)	**7.1**	**7.1**	**6.9**	**6.9**	**6.9**	**7.1**	**7.4**	**7.0**	**6.9**	**6.8**
TDS (mg/L)	**1580**	**1550**	< 40.0	**1290**	**1340**	**1710**	**1450**	**1550**	**1610**	**1790**
Antimony, Total (mg/L)	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	**0.00012**	< 0.0010
Arsenic (mg/L)	**0.0054**	**0.0053**	**0.0031**	**0.0030**	**0.0019**	**0.0028**	**0.0027**	**0.0027**	**0.0043**	**0.0021**
Barium, Total (mg/L)	**0.096**	**0.091**	**0.072**	**0.068**	**0.058**	**0.050**	**0.051**	**0.050**	**0.042**	**0.045**
Beryllium, Total (mg/L)	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	**0.000063**	< 0.0010
Cadmium, Total (mg/L)	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050	**0.000090**	< 0.00050
Chromium, Total (mg/L)	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	**0.0013**	**0.0038**	< 0.0010
Cobalt, Total (mg/L)	**0.022**	**0.021**	**0.017**	**0.017**	**0.015**	**0.012**	**0.011**	**0.011**	**0.010**	**0.012**
Lead, Total (mg/L)	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	**0.0013**	< 0.010
Lithium, Total (mg/L)	**0.047**	**0.050**	**0.040**	**0.038**	**0.034**	**0.045**	**0.039**	**0.034**	**0.033**	**0.029**
Molybdenum, Total (mg/L)	**0.0032**	**0.0032**	**0.0037**	**0.0035**	**0.0036**	**0.0037**	**0.0026**	**0.0023**	**0.0022**	**0.0024**
Selenium, Total (mg/L)	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	**0.00019**	< 0.0010
Thallium, Total (mg/L)	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	**0.000071**	< 0.0010
Mercury, Total (mg/L)	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020
Fluoride (mg/L)	**0.22**	**0.45**	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	**0.27**	**0.36**	< 0.20
Radium-226 & 228 Combined (pCi/L)	**3.21 ± 1.25 (1.55)**	**2.83 ± 1.24 (1.65)**	**3.15 ± 1.19 (1.33)**	**2.56 ± 1.40 (2.08)**	**2.31 ± 1.18 (1.63)**	2.40 ± 1.67 (2.84)	**2.81 ± 1.43 (2.09)**	1.05 ± 1.17 (2.15)	1.84 ± 1.27 (2.04)	**2.00 ± 0.923 (1.31)**

Notes:

Bold value: *Detection above laboratory reporting limit or minimum detectable concentration (MDC).*
Radiological results are presented as activity plus or minus uncertainty with MDC.
µS/cm = micro Siemens per centimeter
Deg C = degrees Celsius
ft btoc = feet below top of casing
mg/L = milligrams per liter
N/A = Not Applicable
NTU = Nephelometric Turbidity Unit
pCi/L = picoCuries per liter
su = standard unit
TDS = total dissolved solids
TOC = top of casing

TABLE IV
SUMMARY OF ANALYTICAL RESULTS - BASELINE GROUNDWATER MONITORING SAMPLING
EVERGY KANSAS CENTRAL, INC.
TECUMSEH ENERGY CENTER, BOTTOM ASH SETTLING AREA
TECUMSEH, KANSAS

Location	Downgradient							
	TEC-MW-12							
Measure Point (TOC)	864.87							
Sample Name	MW-12-121323	MW-12-020224	MW-12-031124	MW-12-052824	MW-12-071124	MW-12-091224	MW-12-112624	MW-12-012225
Sample Date	12/13/2023	02/01/2024	03/11/2024	05/28/2024	07/11/2024	09/12/2024	11/26/2024	01/22/2025
Final Lab Report Date	1/30/2024	2/19/2024	3/26/2024	6/23/2024	7/31/2024	9/30/2024	12/23/2024	2/4/2025
Final Lab Report Revision Date	2/21/2024	N/A	N/A	N/A	N/A	12/4/2024	2/7/2025	N/A
Final Radiation Lab Report Date	1/9/2024	2/21/2024	4/3/2024	7/1/2024	7/31/2024	10/14/2024	12/23/2024	2/11/2025
Final Radiation Lab Report Revision Date	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3/20/2025
Lab Data Reviewed and Accepted	3/4/2024	7/12/2024	8/5/2024	9/11/2024	9/13/2024	3/19/2025	3/18/2025	4/1/2025
Depth to Water (ft btoc)	17.51	16.67	16.85	16.49	16.85	17.91	17.21	17.05
Temperature (Deg C)	13.28	14.78	19.80	21.79	20.35	17.57	8.64	6.30
Conductivity (µS/cm)	2190	2130	2460	2190	1740	2230	3100	2930
Turbidity (NTU)	139.0	48.3	31.9	57.0	82.4	73.1	13.5	17.4
pH , Field (su)	6.91	6.61	6.43	6.71	7.88	7.19	6.88	7.15
Dissolved Oxygen, Field (mg/L)	0.00	0.00	0.00	0.00	0.00	0.15	4.14	0.00
Oxygen Reduction Potential, Field (mv)	-77	-87	-82	-72	-185	-56	-95	-47
Ferrous Iron, Field (mg/L)	-	2.70	3.00	3.00	0.67		-	-
Boron, Total (mg/L)	**0.54**	**0.49**	**0.50**	**0.41**	**0.43**	**0.43**	**0.47**	**0.48**
Calcium, Total (mg/L)	**199**	**219**	**211**	**201**	**222**	**195**	**219**	**211**
Chloride (mg/L)	**274**	**319**	**297**	**322**	**320**	**310**	**419**	**384**
Fluoride (mg/L)	**0.33**	< 0.20	< 0.20	< 0.20	< 0.20	**0.36**	**0.42**	< 0.20
Sulfate (mg/L)	**389**	**393**	**363**	**323**	**312**	**328**	**340**	**366**
pH (su)	**7.0**	**6.8**	**7.0**	**6.9**	**7.1**	**7.0**	**7.0**	**6.7**
TDS (mg/L)	**1340**	**2610**	**1160**	**1230**	**1340**	**1310**	**1540**	**1610**
Antimony, Total (mg/L)	< 0.0050	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	**0.000092**	< 0.0010
Arsenic (mg/L)	< 0.0050	**0.011**	**0.0095**	**0.0048**	**0.010**	**0.0082**	**0.014**	**0.015**
Barium, Total (mg/L)	**0.12**	**0.11**	**0.094**	**0.080**	**0.11**	**0.071**	**0.093**	**0.078**
Beryllium, Total (mg/L)	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	**0.00015**	< 0.0010
Cadmium, Total (mg/L)	< 0.0025	< 0.00050	< 0.00050	< 0.00050	**0.00054**	< 0.00050	**0.00016**	< 0.00050
Chromium, Total (mg/L)	< 0.0050	< 0.0050	< 0.0050	< 0.0050	**0.0066**	< 0.0010	**0.0036**	< 0.0010
Cobalt, Total (mg/L)	**0.058**	**0.044**	**0.041**	**0.032**	**0.030**	**0.037**	**0.033**	**0.032**
Lead, Total (mg/L)	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	**0.0016**	< 0.010
Lithium, Total (mg/L)	**0.051**	**0.047**	**0.050**	**0.041**	**0.041**	**0.035**	**0.031**	**0.031**
Molybdenum, Total (mg/L)	**0.0070**	**0.0062**	**0.0053**	**0.0050**	**0.0052**	**0.0061**	**0.0050**	**0.0052**
Selenium, Total (mg/L)	< 0.0050	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	**0.00020**	< 0.0010
Thallium, Total (mg/L)	< 0.0050	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.00010	< 0.0010
Mercury, Total (mg/L)	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020
Fluoride (mg/L)	**0.33**	< 0.20	< 0.20	< 0.20	< 0.20	**0.36**	**0.42**	< 0.20
Radium-226 & 228 Combined (pCi/L)	**3.08 ± 1.23 (1.50)**	**2.27 ± 1.23 (1.76)**	1.95 ± 1.28 (2.02)	2.16 ± 1.45 (2.25)	**2.99 ± 1.32 (1.84)**	**2.16 ± 1.29 (2.08)**	1.45 ± 0.943 (1.55)	**2.02 ± 1.12 (1.66)**

Notes:

Bold value: *Detection above laboratory reporting limit or minimum detectable concentration (MDC).*
Radiological results are presented as activity plus or minus uncertainty with MDC.
µS/cm = micro Siemens per centimeter
Deg C = degrees Celsius
ft btoc = feet below top of casing
mg/L = milligrams per liter
N/A = Not Applicable
NTU = Nephelometric Turbidity Unit
pCi/L = picoCuries per liter
su = standard unit
TDS = total dissolved solids
TOC = top of casing

TABLE IV
SUMMARY OF ANALYTICAL RESULTS - BASELINE GROUNDWATER MONITORING SAMPLING
EVERGY KANSAS CENTRAL, INC.
TECUMSEH ENERGY CENTER, BOTTOM ASH SETTLING AREA
TECUMSEH, KANSAS

Location	Downgradient							
	TEC-MW-13							
Measure Point (TOC)	867.82							
Sample Name	MW-13-121323	MW-13-020124	MW-13-031124	MW-13-052824	MW-13-071124	MW-13-091224	MW-13-112624	MW-13-012225
Sample Date	12/13/2023	02/01/2024	03/11/2024	05/28/2024	07/11/2024	09/12/2024	11/26/2024	01/22/2025
Final Lab Report Date	1/30/2024	2/19/2024	3/26/2024	6/23/2024	7/31/2024	9/30/2024	12/23/2024	2/4/2025
Final Lab Report Revision Date	2/21/2024	N/A	N/A	N/A	N/A	12/4/2024	2/7/2025	N/A
Final Radiation Lab Report Date	1/9/2024	2/21/2024	4/3/2024	7/1/2024	7/31/2024	10/14/2024	12/23/2024	2/11/2025
Final Radiation Lab Report Revision Date	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3/20/2025
Lab Data Reviewed and Accepted	3/4/2024	7/12/2024	8/5/2024	9/11/2024	9/13/2024	3/19/2025	3/18/2025	4/1/2025
Depth to Water (ft btoc)	19.94	18.34	18.69	18.45	18.78	20.10	19.26	19.23
Temperature (Deg C)	14.10	15.93	21.46	22.66	23.57	22.23	11.30	6.70
Conductivity (µS/cm)	2000	1810	2030	1830	1780	1910	2440	2520
Turbidity (NTU)	662.0	0.0	1000	1000	1000	1000	151	1000
pH , Field (su)	7.50	7.37	7.05	8.70	9.33	8.20	7.88	7.82
Dissolved Oxygen, Field (mg/L)	0.00	0.00	1.05	0.00	3.59	0	3.7	3.22
Oxygen Reduction Potential, Field (mv)	-155	-90	-128	-238	-235	-160	-164	-80
Ferrous Iron, Field (mg/L)	-	0.41	2.22	2.40	0.33	1.79	-	-
Boron, Total (mg/L)	**1.1**	**1.1**	**1.2**	**1.2**	**1.3**	**1.2**	**1.2**	**1.1**
Calcium, Total (mg/L)	**225**	**262**	**203**	**190**	**207**	**268**	**219**	**219**
Chloride (mg/L)	**266**	**224**	**197**	**179**	**174**	**201**	**246**	**280**
Fluoride (mg/L)	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	**0.14**	< 0.20	< 0.20
Sulfate (mg/L)	**723**	**658**	**617**	**699**	**670**	**656**	**695**	**775**
pH (su)	**7.6**	**7.6**	**7.8**	**8.1**	**8.4**	**7.9**	**6.9**	**7.7**
TDS (mg/L)	**1340**	**1950**	**1270**	**1170**	**1260**	**1570**	**1450**	**1700**
Antimony, Total (mg/L)	< 0.0050	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	**0.00018**	< 0.0010
Arsenic (mg/L)	**0.0064**	**0.0098**	**0.015**	**0.019**	**0.026**	**0.015**	**0.0077**	**0.0077**
Barium, Total (mg/L)	**0.081**	**0.10**	**0.085**	**0.088**	**0.11**	**0.13**	**0.096**	**0.079**
Beryllium, Total (mg/L)	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	**0.00030**	< 0.0010
Cadmium, Total (mg/L)	< 0.0025	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050	**0.000046**	< 0.00050
Chromium, Total (mg/L)	**0.0070**	**0.014**	**0.0052**	< 0.0050	**0.0090**	**0.014**	**0.0091**	**0.0072**
Cobalt, Total (mg/L)	< 0.0050	**0.0065**	**0.0022**	**0.0012**	**0.0029**	**0.0068**	**0.0026**	**0.0033**
Lead, Total (mg/L)	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	**0.0022**	< 0.010
Lithium, Total (mg/L)	**0.032**	**0.031**	**0.022**	**0.015**	**0.012**	**0.029**	**0.018**	**0.021**
Molybdenum, Total (mg/L)	**0.032**	**0.038**	**0.050**	**0.057**	**0.057**	**0.038**	**0.036**	**0.031**
Selenium, Total (mg/L)	< 0.0050	**0.0039**	**0.0011**	< 0.0010	**0.0014**	**0.0031**	**0.0020**	**0.0015**
Thallium, Total (mg/L)	< 0.0050	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	**0.000056**	< 0.0010
Mercury, Total (mg/L)	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020
Fluoride (mg/L)	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	**0.14**	< 0.20	< 0.20
Radium-226 & 228 Combined (pCi/L)	0.955 ± 1.02 (1.85)	**2.16 ± 1.17 (1.71)**	0.775 ± 1.08 (2.00)	1.50 ± 1.44 (2.47)	0.402 ± 1.11 (2.16)	0.913 ± 1.05 (1.92)	1.09 ± 0.867 (1.48)	1.66 ± 0.888 (1.27)

Notes:

Bold value: *Detection above laboratory reporting limit or minimum detectable concentration (MDC).*
Radiological results are presented as activity plus or minus uncertainty with MDC.
µS/cm = micro Siemens per centimeter
Deg C = degrees Celsius
ft btoc = feet below top of casing
mg/L = milligrams per liter
N/A = Not Applicable
NTU = Nephelometric Turbidity Unit
pCi/L = picoCuries per liter
su = standard unit
TDS = total dissolved solids
TOC = top of casing

TABLE IV
SUMMARY OF ANALYTICAL RESULTS - BASELINE GROUNDWATER MONITORING SAMPLING
EVERGY KANSAS CENTRAL, INC.
TECUMSEH ENERGY CENTER, BOTTOM ASH SETTLING AREA
TECUMSEH, KANSAS

Location	Downgradient							
	TEC-MW-14							
Measure Point (TOC)	869.84							
Sample Name	MW-14-121323	MW-14-020124	MW-14-031124	MW-14-052824	MW-14-071124	MW-14-091224	MW-14-112624	MW-14-012225
Sample Date	12/13/2023	02/01/2024	03/11/2024	05/28/2024	07/11/2024	09/12/2024	11/26/2024	01/22/2025
Final Lab Report Date	1/30/2024	2/19/2024	3/26/2024	6/23/2024	7/31/2024	9/30/2024	12/23/2024	2/4/2025
Final Lab Report Revision Date	2/21/2024	N/A	N/A	N/A	N/A	12/4/2024	2/7/2025	N/A
Final Radiation Lab Report Date	1/9/2024	2/21/2024	4/3/2024	7/1/2024	7/31/2024	10/14/2024	12/23/2024	2/11/2025
Final Radiation Lab Report Revision Date	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3/20/2025
Lab Data Reviewed and Accepted	3/4/2024	7/12/2024	8/5/2024	9/11/2024	9/13/2024	3/19/2025	3/18/2025	4/1/2025
Depth to Water (ft btoc)	20.65	20.46	20.78	21.12	20.79	22.62	21.17	21.06
Temperature (Deg C)	13.47	14.44	21.04	25.43	25.17	22.79	11.43	7.03
Conductivity (µS/cm)	1720	1660	1770	1570	1730	1700	2550	2270
Turbidity (NTU)	86.9	46.8	22.6	33.0	4.3	63.1	19.4	16.7
pH , Field (su)	7.59	7.15	7.00	7.21	7.11	7.68	7.43	7.69
Dissolved Oxygen, Field (mg/L)	0.00	5.03	0.25	0.00	0.00	5.4	4.72	2.31
Oxygen Reduction Potential, Field (mv)	-106	-3	27	-15	-19	45	-12	35
Ferrous Iron, Field (mg/L)	-	0.41	0.59	0.31	0.13	0.52	-	-
Boron, Total (mg/L)	**0.95**	**0.94**	**0.91**	**0.93**	**0.98**	**0.96**	**1.0**	**1.0**
Calcium, Total (mg/L)	**190**	**200**	**180**	**182**	**194**	**197**	**207**	**195**
Chloride (mg/L)	**196**	**218**	**190**	**203**	**205**	**222**	**261**	**263**
Fluoride (mg/L)	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	**0.27**	< 0.20	< 0.20
Sulfate (mg/L)	**488**	**477**	**466**	**726**	**523**	**411**	**544**	**544**
pH (su)	**7.6**	**7.4**	**7.4**	**7.2**	**7.4**	**7.3**	**7.1**	**7.2**
TDS (mg/L)	**1190**	**3230**	**1140**	**1130**	**1150**	**1160**	**1400**	**1380**
Antimony, Total (mg/L)	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	**0.00016**	< 0.0010
Arsenic (mg/L)	**0.0037**	**0.0018**	**0.0014**	**0.0016**	**0.0013**	**0.0017**	**0.0011**	**0.0011**
Barium, Total (mg/L)	**0.064**	**0.044**	**0.033**	**0.030**	**0.030**	**0.029**	**0.031**	**0.029**
Beryllium, Total (mg/L)	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	**0.000054**	< 0.0010
Cadmium, Total (mg/L)	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.000080	< 0.00050
Chromium, Total (mg/L)	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0010	**0.0012**	< 0.0050
Cobalt, Total (mg/L)	**0.0018**	**0.0013**	< 0.0010	< 0.0010	< 0.0010	**0.0011**	**0.00055**	< 0.0010
Lead, Total (mg/L)	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	**0.00019**	< 0.010
Lithium, Total (mg/L)	**0.035**	**0.033**	**0.031**	**0.026**	**0.025**	**0.030**	**0.026**	**0.024**
Molybdenum, Total (mg/L)	**0.029**	**0.024**	**0.025**	**0.033**	**0.027**	**0.021**	**0.022**	**0.025**
Selenium, Total (mg/L)	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	**0.0022**	< 0.0010
Thallium, Total (mg/L)	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	**0.000037**	< 0.0010
Mercury, Total (mg/L)	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020
Fluoride (mg/L)	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	**0.27**	< 0.20	< 0.20
Radium-226 & 228 Combined (pCi/L)	**1.60 ± 0.891 (1.33)**	**2.63 ± 1.32 (1.83)**	1.38 ± 1.24 (2.17)	0.930 ± 1.39 (2.54)	0.869 ± 1.09 (1.97)	**1.82 ± 0.861 (0.957)**	**2.33 ± 1.22 (1.89)**	1.13 ± 0.821 (1.25)

Notes:

Bold value: *Detection above laboratory reporting limit or minimum detectable concentration (MDC).*
Radiological results are presented as activity plus or minus uncertainty with MDC.
µS/cm = micro Siemens per centimeter
Deg C = degrees Celsius
ft btoc = feet below top of casing
mg/L = milligrams per liter
N/A = Not Applicable
NTU = Nephelometric Turbidity Unit
pCi/L = picoCuries per liter
su = standard unit
TDS = total dissolved solids
TOC = top of casing

TABLE V
ASSESSMENT GROUNDWATER MONITORING - DETECTED APPENDIX IV GWPS
SEPTEMBER 2024 SAMPLING EVENT
TECUMSEH ENERGY CENTER
BOTTOM ASH SETTLING AREA
TECUMSEH, KANSAS

Well #	Background Value[1]	GWPS
CCR Appendix-IV Arsenic, Total (mg/L)		
MW-4 (upgradient)	0.0021	NA
MW-1		0.010
MW-5		0.010
MW-6		0.010
CCR Appendix-IV Barium, Total (mg/L)		
MW-4 (upgradient)	0.0907	NA
MW-1		2
MW-5		2
MW-6		2
CCR Appendix-IV Beryllium, Total (mg/L)		
MW-4 (upgradient)	0.001[2]	NA
MW-1		0.004
MW-5		0.004
MW-6		0.004
CCR Appendix-IV Chromium, Total (mg/L)		
MW-4 (upgradient)	0.005[2]	NA
MW-1		0.1
MW-5		0.1
MW-6		0.1
CCR Appendix-IV Cobalt, Total (mg/L)		
MW-4 (upgradient)	0.0035	NA
MW-1		0.006
MW-5		0.006
MW-6		0.006
CCR Appendix-IV Fluoride, Total (mg/L)		
MW-4 (upgradient)	0.370	NA
MW-1		4.0
MW-5		4.0
MW-6		4.0
CCR Appendix-IV Lead, Total (mg/L)		
MW-4 (upgradient)	0.010[2]	NA
MW-1		0.015
MW-5		0.015
MW-6		0.015
CCR Appendix-IV Lithium, Total (mg/L)		
MW-4 (upgradient)	0.0346	NA
MW-1		0.040
MW-5		0.040
MW-6		0.040

TABLE V
ASSESSMENT GROUNDWATER MONITORING - DETECTED APPENDIX IV GWPS
SEPTEMBER 2024 SAMPLING EVENT
TECUMSEH ENERGY CENTER
BOTTOM ASH SETTLING AREA
TECUMSEH, KANSAS

Well #	Background Value[1]	GWPS
CCR Appendix-IV Molybdenum, Total (mg/L)		
MW-4 (upgradient)	0.0196	NA
MW-1		0.100
MW-5		0.100
MW-6		0.100
CCR Appendix-IV Radium-226 & 228 Combined (pCi/L)		
MW-4 (upgradient)	5.88	NA
MW-1		5.88
MW-5		5.88
MW-6		5.88

Notes:

[1] Based on background data collected from 08/30/2016 through 03/13/2024, unless otherwise noted.

[2] Based on background data collected from 08/30/2016 through 01/05/2023.

CCR = coal combustion residuals

GWPS = groundwater protection standard

mg/L = milligrams per Liter

NA = not applicable

pCi/L = picoCuries per Liter

TABLE VI
ASSESSMENT GROUNDWATER MONITORING - DETECTED APPENDIX IV GWPS
MARCH 2025 SAMPLING EVENT
TECUMSEH ENERGY CENTER
BOTTOM ASH SETTLING AREA
TECUMSEH, KANSAS

Well #	Background Value[1]	GWPS
CCR Appendix-IV Arsenic, Total (mg/L)		
MW-4 (upgradient)	0.0021	NA
MW-1		0.010
MW-5		0.010
MW-6		0.010
CCR Appendix-IV Barium, Total (mg/L)		
MW-4 (upgradient)	0.0907	NA
MW-1		2
MW-5		2
MW-6		2
CCR Appendix-IV: Chromium, Total (mg/L)		
MW-4 (upgradient)	0.005[2]	NA
MW-1		0.1
MW-5		0.1
MW-6		0.1
CCR Appendix-IV Cobalt, Total (mg/L)		
MW-4 (upgradient)	0.0035	NA
MW-1		0.006
MW-5		0.006
MW-6		0.006
CCR Appendix-IV: Fluoride, Total (mg/L)		
MW-4 (upgradient)	0.370	NA
MW-1		4.0
MW-5		4.0
MW-6		4.0
CCR Appendix-IV Lithium, Total (mg/L)		
MW-4 (upgradient)	0.0346	NA
MW-1		0.040
MW-5		0.040
MW-6		0.040

TABLE VI
ASSESSMENT GROUNDWATER MONITORING - DETECTED APPENDIX IV GWPS
MARCH 2025 SAMPLING EVENT
TECUMSEH ENERGY CENTER
BOTTOM ASH SETTLING AREA
TECUMSEH, KANSAS

Well #	Background Value[1]	GWPS
CCR Appendix-IV Molybdenum, Total (mg/L)		
MW-4 (upgradient)	0.0196	NA
MW-1		0.100
MW-5		0.100
MW-6		0.100
CCR Appendix-IV Radium-226 & 228 Combined (pCi/L)		
MW-4 (upgradient)	5.88	NA
MW-1		5.88
MW-5		5.88
MW-6		5.88

Notes:

[1] Based on background data collected from 08/30/2016 through 03/13/2024, unless otherwise noted.

[2] Based on background data collected from 08/30/2016 through 12/16/2024.

CCR = coal combustion residuals

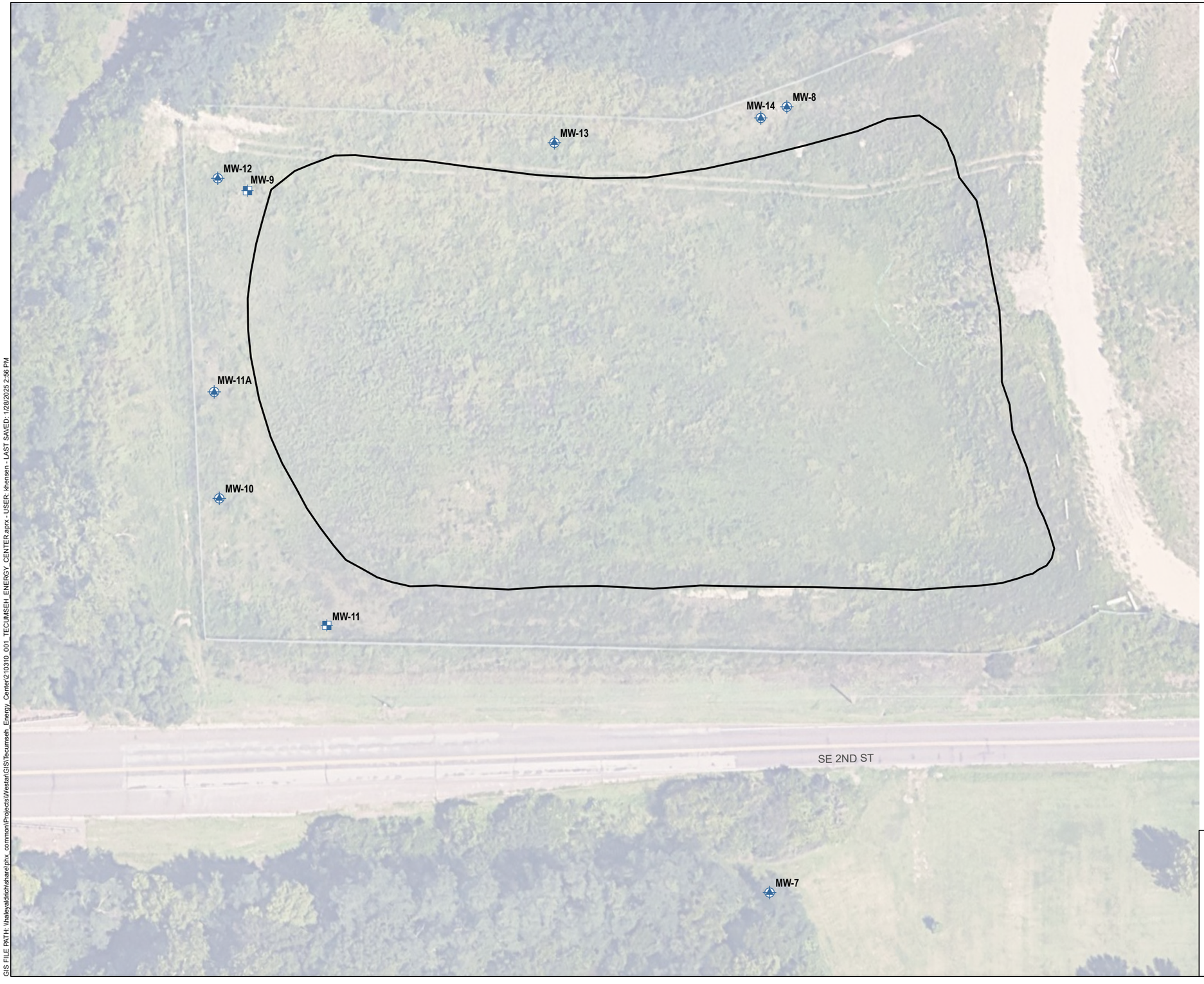
GWPS = groundwater protection standard

mg/L = milligrams per Liter

NA = not applicable

pCi/L = picoCuries per Liter

FIGURES



LEGEND

- MONITORING WELL
- PIEZOMETER OBSERVATION ONLY
- BOTTOM ASH SETTLING AREA UNIT BOUNDARY/ APPROXIMATE EDGE OF FORMER WASTE BOUNDARY

NOTES

1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.
2. AERIAL IMAGERY SOURCE: GOOGLE EARTH

N

0 50 100

SCALE IN FEET

HALEY ALDRICH

EVERGY KANSAS CENTRAL, INC.
TECUMSEH ENERGY CENTER
TECUMSEH, KANSAS

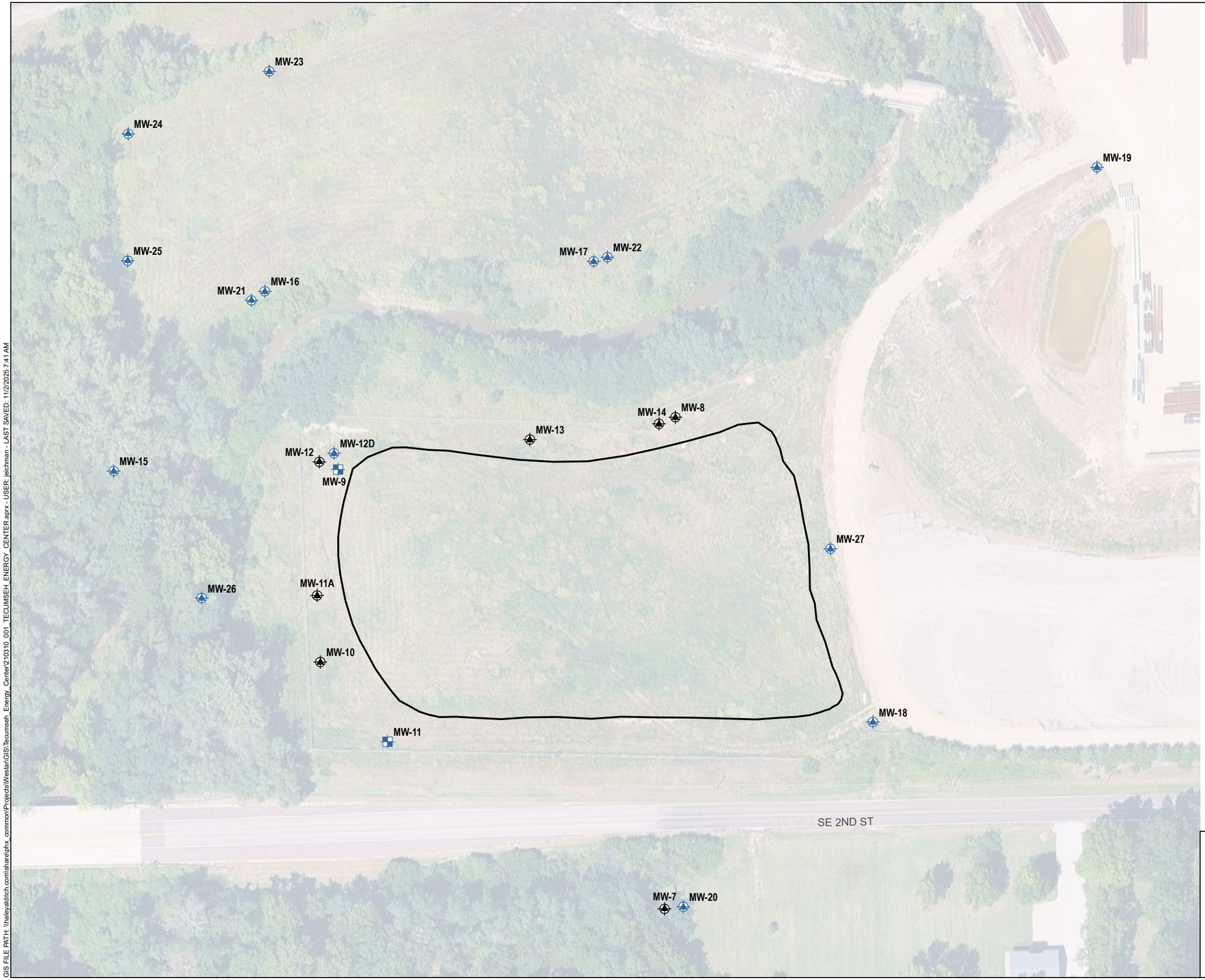
BOTTOM ASH SETTLING AREA MONITORING WELL LOCATION MAP

evergy

JANUARY 2026

FIGURE 1

GIS FILE PATH: \\haleyaldrich\share\phx_common\Projects\Westar\GIS\Tecumseh_Energy_Center\210310_001_TECUMSEH_ENERGY_CENTER.aprx - USER: khensen - LAST SAVED: 1/28/2025 2:56 PM



LEGEND

- COMPLIANCE MONITORING WELL
- NATURE AND EXTENT MONITORING WELL
- PIEZOMETER OBSERVATION ONLY
- BOTTOM ASH SETTLING AREA UNIT BOUNDARY/ APPROXIMATE EDGE OF FORMER WASTE BOUNDARY

NOTES

1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.
2. AERIAL IMAGERY SOURCE: GOOGLE EARTH

N

0 80 160
SCALE IN FEET

HALEY ALDRICH

EVERGY KANSAS CENTRAL, INC.
TECUMSEH ENERGY CENTER
TECUMSEH, KANSAS

BOTTOM ASH SETTLING AREA NATURE AND EXTENT MONITORING WELL LOCATION MAP

evergy

JANUARY 2026

FIGURE 2

GIS FILE PATH: \\haleyaldrich.com\share\phx_common\Projects\Westar\GIS\Tecumseh_Energy_Center\210310_001_TECUMSEH_ENERGY_CENTER.aprx - USER: jeichman - LAST SAVED: 11/2/2025 7:41 AM

LEGEND

- MONITORING WELL
- PIEZOMETER OBSERVATION ONLY
- ESTIMATED GROUNDWATER POTENTIOMETRIC OBSERVATION CONTOUR, IN FEET, DASHED WHERE INFERRED
- GROUNDWATER FLOW DIRECTION AND APPROXIMATE GROUNDWATER FLOW RATE (FEET/YEAR)
- BOTTOM ASH SETTLING AREA

NOTES

1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.

2. GROUNDWATER POTENTIOMETRIC ELEVATIONS WERE MEASURED MARCH 12, 2025.

3. THE GROUNDWATER FLOW RATE WAS APPROXIMATED USING THE HYDRAULIC GRADIENT CALCULATED FROM GROUNDWATER POTENTIOMETIRIC ELEVATIONS MEASURED MARCH 12, 2025 AND THE CONDUCTIVITY VALUES AND EFFECTIVE POROSITY VALUES OBTAINED FROM SLUG TESTS COMPLETED APRIL 2016.

4. GROUNDWATER ELEVATION IN **BOLD BLUE TEXT** AND IN FEET ABOVE MEAN SEA LEVEL (AMSL).

5. AERIAL IMAGERY SOURCE: GOOGLE EARTH

N

0 50 100
SCALE IN FEET

HALEY ALDRICH

EVERGY KANSAS CENTRAL, INC.
TECUMSEH ENERGY CENTER
TECUMSEH, KANSAS

BOTTOM ASH SETTLING AREA
GROUNDWATER POTENTIOMETRIC
ELEVATION CONTOUR MAP
MARCH 12, 2025

evergy

JULY 2025

FIGURE 3

GIS FILE PATH: G:\Projects\Westar\GIS\Tecumseh_Energy_Center\210310_001_2025_BASA_BASELINE_TECUMSEH_ENERGY_CENTER_GROUNDWATER_CONTOURS.aprx - USER: khensen - LAST SAVED: 6/18/2025 3:09 PM

LEGEND

- MONITORING WELL
- PIEZOMETER OBSERVATION ONLY
- ESTIMATED GROUNDWATER POTENTIOMETRIC OBSERVATION CONTOUR, IN FEET, DASHED WHERE INFERRED
- BOTTOM ASH SETTLING AREA

NOTES

1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.

2. GROUNDWATER POTENTIOMETRIC ELEVATIONS WERE MEASURED JUNE 12, 2025.

3. THE GROUNDWATER FLOW RATE WAS APPROXIMATED USING THE HYDRAULIC GRADIENT CALCULATED FROM GROUNDWATER POTENTIOMETIRIC ELEVATIONS MEASURED JUNE 12, 2025 AND THE CONDUCTIVITY VALUES AND EFFECTIVE POROSITY VALUES OBTAINED FROM SLUG TESTS COMPLETED APRIL 2016.

4. WATER LEVEL ELEVATION DATA FROM MW-14 WAS NOT USED FOR GROUNDWATER CONTOUR DEVELOPMENT DUE TO THE WELLS CLOSE PROXIMITY TO MW-8

5. GROUNDWATER ELEVATION IN **BOLD BLUE TEXT** AND IN FEET ABOVE MEAN SEA LEVEL (AMSL).

6. AERIAL IMAGERY SOURCE: GOOGLE EARTH

N

0 50 100
SCALE IN FEET

HALEY ALDRICH

EVERGY KANSAS CENTRAL, INC.
TECUMSEH ENERGY CENTER
TECUMSEH, KANSAS

BOTTOM ASH SETTLING AREA GROUNDWATER POTENTIOMETRIC ELEVATION CONTOUR MAP JUNE 12, 2025

evergy

JANUARY 2026

FIGURE 4

GIS FILE PATH: \\haleyaldrich.com\share\phx_common\Projects\Westar\GIS\Tecumseh_Energy_Center\210310_001_2025_BASA_BASELINE_TECUMSEH_ENERGY_CENTER_GROUNDWATER_CONTOURS.aprx - USER: jeichman - LAST SAVED: 8/28/2025 9:56 AM

LEGEND

- MONITORING WELL
- PIEZOMETER OBSERVATION ONLY
- ESTIMATED GROUNDWATER POTENTIOMETRIC OBSERVATION CONTOUR, IN FEET, DASHED WHERE INFERRED
- BOTTOM ASH SETTLING AREA

NOTES

1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.

2. GROUNDWATER POTENTIOMETRIC ELEVATIONS WERE MEASURED SEPTEMBER15-16, 2025.

3. WATER LEVEL ELEVATION DATA FROM MW-9 WAS NOT USED FOR GROUNDWATER CONTOUR DEVELOPMENT

4. THE GROUNDWATER FLOW RATE WAS APPROXIMATED USING THE HYDRAULIC GRADIENT CALCULATED FROM GROUNDWATER POTENTIOMETIRIC ELEVATIONS MEASURED SEPTEMBER 15-16, 2025 AND THE CONDUCTIVITY VALUES AND EFFECTIVE POROSITY VALUES OBTAINED FROM SLUG TESTS COMPLETED APRIL 2016.

5. GROUNDWATER ELEVATION IN **BOLD BLUE TEXT** AND IN FEET ABOVE MEAN SEA LEVEL (AMSL).

6. AERIAL IMAGERY SOURCE: GOOGLE EARTH

N

0 50 100
SCALE IN FEET

HALEY ALDRICH

EVERGY KANSAS CENTRAL, INC.
TECUMSEH ENERGY CENTER
TECUMSEH, KANSAS

BOTTOM ASH SETTLING AREA GROUNDWATER POTENTIOMETRIC ELEVATION CONTOUR MAP SEPTEMBER 15-16, 2025

evergy

JANUARY 2026

FIGURE 5

GIS FILE PATH: \\haleyaldrich.com\share\phx_common\Projects\Westar\GIS\Tecumseh_Energy_Center\210310_001_2025_BASA_BASELINE_TECUMSEH_ENERGY_CENTER_GROUNDWATER_CONTOURS.aprx - USER: jeichman - LAST SAVED: 12/1/2025 9:39 AM

ATTACHMENT 1
Statistical Analyses

ATTACHMENT 1-1
September 2024 Semiannual Groundwater Assessment Monitoring Data Statistical Evaluation

HALEY & ALDRICH, INC.
6500 Rockside Road
Suite 200
Cleveland, OH 44131
216.739.0555

TECHNICAL MEMORANDUM

January 31, 2025
File No. 0210310-000

TO: Evergy Kansas Central, Inc.
Jared Morrison – Director, Water and Waste Programs

FROM: Haley & Aldrich, Inc.
Steven F. Putrich, P.E., Principal Consultant – Engineering Principal
Mark Nicholls, P.G., Principal Consultant –Hydrogeologist

SUBJECT: September 2024 Semiannual Groundwater Assessment Monitoring Data Statistical Evaluation
Completed January 9, 2025
Tecumseh Energy Center
Bottom Ash Settling Area

Pursuant to Title 40 Code of Federal Regulations (40 CFR) §§ 257.93 and 257.95 (Rule), this memorandum summarizes the statistical evaluation of the analytical results for the **September 2024** semiannual assessment monitoring groundwater sampling event for the Tecumseh Energy Center (TEC) Bottom Ash Settling Area (BASA). This semiannual assessment monitoring groundwater sampling event was completed on **September 11 and 12, 2024**, with laboratory results received and validated on **December 17, 2024**. Well MW-8 was resampled for barium, beryllium, chromium, lead, lithium, and radium, and well MW-10 was resampled for cobalt on **October 23, 2024** to confirm concentrations collected on September 11 and 12, 2024. The results were revised accordingly. During the sampling event, downgradient monitoring well MW-9 did not contain sufficient water volume to successfully collect a sample.

The statistical evaluation discussed in this memorandum was conducted to determine if Appendix IV groundwater monitoring constituents have been detected in downgradient wells at concentrations that represent a statistically significant increase (SSI) above background values and if one or more of the constituents have been detected at statistically significant levels (SSL) above the groundwater protection standard (GWPS) consistent with the requirements of the Rule. GWPS values for each of the Appendix IV constituents have been set equal to the highest value of the maximum contaminant level, levels provided in 40 CFR § 257.95(h)(2) (from regional screening levels), or background concentrations.

Statistical Evaluation of Appendix IV Constituents

The Rule provides four specific options for statistical evaluation of groundwater quality data collected at a coal combustion residual (CCR) unit (40 CFR § 257.93(f)(1-4)). The statistical method used for these evaluations (tolerance limit [TL]) was certified by Haley & Aldrich, Inc. on January 14, 2019. The TL method, as determined applicable for this sampling event, was used to evaluate potential SSLs above background. Background levels for each constituent listed in Appendix IV were computed as upper tolerance limits (UTL), and a minimum 95 percent confidence coefficient and 95 percent coverage. The most recent groundwater sampling event from each compliance well was compared to the corresponding background UTL to determine if an SSI existed.

STATISTICAL EVALUATION

An interwell evaluation was used to determine SSIs. Interwell evaluation compares the most recent values from downgradient compliance wells against a background dataset composed of upgradient well data. Because the CCR unit has transitioned into assessment monitoring, no statistical evaluations were conducted on Appendix III (detection monitoring) semiannual assessment monitoring data.

The TL method was used to complete statistical evaluations of the referenced dataset. The TL procedure is one in which a concentration limit for each constituent is established from the distribution of the background data, with a minimum 95 percent confidence level. The upper endpoint of a tolerance interval is called the UTL. Depending on the data distribution, parametric or non-parametric TL procedures are used to evaluate groundwater monitoring data using this method. Parametric TLs utilize normally distributed data or normalized data via a transformation of the sample background data used to construct the limit. If the data are non-normal and a transformation is not indicated, non-parametric procedures (order statistics or bootstrap methods) are used to calculate the TL. If all the background data are non-detect, a maximum reporting limit may serve as an appropriate UTL.

These statistical evaluations were conducted using the background dataset for all Appendix IV constituents that were detected in the annual assessment monitoring sample event using parametric TLs. If an Appendix IV constituent concentration from the **September 2024** sampling event was above the GWPS, the lower confidence limit (LCL) for the downgradient well constituent will be used to evaluate if an SSI is present. The LCL is the lower end of the confidence interval range, which is an estimated concentration range intended to contain the true mean or median of the population from which the sample is drawn. The confidence interval range is designed to locate the true population mean or median with a high degree of statistical confidence, or conversely, with a low probability of error.

The UTLs were calculated from the background well dataset using Chemstat software after testing for outlier sample results that would warrant removal from the dataset based on likely error in sampling or measurement. Both visual and statistical outlier tests for the background data were performed using Chemstat and U.S. Environmental Protection Agency's ProUCL 5.1 software, and a visual inspection of the data was performed using box plots and distribution plots for the downgradient sample data. No sample data were identified as outliers that warranted removal from the dataset.

BACKGROUND DISTRIBUTIONS

The groundwater analytical results for each sampling event from the background sample location MW-7 were combined to calculate the UTL for each detected Appendix IV constituent. The variability and distribution of the pooled dataset were evaluated to determine the method for UTL calculation. In accordance with the document titled *Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, Unified Guidance, March 2009,* background concentrations were updated based on statistical evaluation of analytical results collected through **March 2024** for all constituents except beryllium, chromium, and lead, which were updated through **January 2023.**

RESULTS OF APPENDIX IV DOWNGRADIENT STATISTICAL COMPARISONS

Sample concentrations from the downgradient wells for each of the detected Appendix IV constituents from the **September 2024** semiannual assessment monitoring event were compared to their respective background UTLs and GWPSs (Table I). A sample concentration greater than the background UTL is considered to represent an SSI. A sample concentration greater than the GWPS is considered to represent an SSL. The results of the groundwater assessment monitoring statistical evaluation are provided in Table I. **Based on this statistical evaluation of groundwater sampling data collected in September 2024, the SSLs above GWPS for the TEC BASA are listed in Table II.** All detected SSLs are consistent with previously identified SSLs at the TEC BASA.

Attachments:

Table I – Summary of Semiannual Assessment Groundwater Monitoring Statistical Evaluation
Table II – Statistically Significant Levels of Appendix IV Constituents

TABLES

TABLE I

SUMMARY OF SEMIANNUAL ASSESSMENT GROUNDWATER MONITORING STATISTICAL EVALUATION

SEPTEMBER 2024 SAMPLING EVENT

TECUMSEH ENERGY CENTER BOTTOM ASH SETTLING AREA

TECUMSEH, KANSAS

										MCL Comparison						Interwell Analysis			Groundwater Protection Standard	
Location Id	Frequency of Detection	Percent Non-Detects	Range of Non-Detect	Maximum Detect	Variance	Standard Deviation	Coefficient of Variance	CCR MCL/RSL §257.95(h)(2)*	Report Result Unit	Number of Detection Exceedances	Number of Non-Detection Exceedances	Outlier Presence	Outlier Removed	Trend	Distribution Well	September 2024 Concentration (mg/L)	Upper Tolerance Limit (mg/L)	SSI	GWPS (Higher of MCL/RSL or UTL) mg/L	SSL
CCR Appendix-IV: Arsenic, Total (mg/L)																				
MW-7	23/23	0%	-	0.0021	4.846E-08	0.0002201	0.1387	0.01	mg/L	0	0	No	No	Stable	Non-parametric	0.0018	0.0021		0.010	
MW-10	23/23	0%	-	0.077	0.0004527	0.02128	0.5055	0.01	mg/L	21	0	No	No	Decreasing		0.020		Yes		Yes
MW-8	20/21	5%	0.01-0.01	0.0047	0.000003728	0.001931	0.7027	0.01	mg/L	0	0	Yes	No	Stable		0.0013		No		No
MW-9	15/15	0%	-	0.25	0.003018	0.05494	0.4723	0.01	mg/L	15	0	Yes	No	Stable		NS		NA		NA
CCR Appendix-IV: Barium, Total (mg/L)																				
MW-7	20/20	0%	-	0.1	0.0001342	0.01158	0.1665	2	mg/L	0	0	No	No	Decreasing	Normal	0.070	0.0907		2	
MW-10	19/19	0%	-	0.36	0.003993	0.06319	0.2296	2	mg/L	0	0	No	No	Stable		0.15		Yes		No
MW-8	17/17	0%	-	0.17	0.0009191	0.03032	0.4266	2	mg/L	0	0	Yes	No	Stable		0.12		Yes		No
MW-9	13/13	0%	-	0.91	0.02334	0.1528	0.2052	2	mg/L	0	0	Yes	No	Stable				NA		NA
CCR Appendix-IV: Beryllium, Total (mg/L)																				
MW-7	0/16	100%	0.001-0.001		0	0	0	0.004	mg/L	0	0	NA	NA	NA	NA	<0.0010	0.001[2]		0.004	
MW-10	0/16	100%	0.001-0.001		0	0	0	0.004	mg/L	0	0	NA	NA	NA		<0.0010		No		No
MW-8	1/15	93%	0.001-0.001	0.0016	0.000000024	0.0001549	0.149	0.004	mg/L	0	0	NA	NA	NA		<0.0010		No		No
MW-9	0/11	100%	0.001-0.001		0	0	0	0.004	mg/L	0	0	NA	NA	NA		NS		NA		NA
CCR Appendix-IV: Chromium, Total (mg/L)																				
MW-7	0/16	100%	0.005-0.005		7.228E-21	8.502E-11	0.000000017	0.1	mg/L	0	0	NA	NA	NA	NA	<0.0050	0.005[2]		0.1	
MW-10	0/16	100%	0.005-0.005		7.228E-21	8.502E-11	0.000000017	0.1	mg/L	0	0	NA	NA	NA		<0.0050		No		No
MW-8	3/15	80%	0.005-0.005	0.069	0.0002821	0.0168	1.579	0.1	mg/L	0	0	Yes	No	NA		0.069		Yes		No
MW-9	1/11	91%	0.005-0.005	0.005	1.084E-20	1.041E-10	2.083E-08	0.1	mg/L	0	0	No	No	NA		NS		NA		NA
CCR Appendix-IV: Cobalt, Total (mg/L)																				
MW-7	20/23	13%	0.001-0.001	0.0035	3.531E-07	0.0005942	0.3645	0.006	mg/L	0	0	Yes	No	Stable	Non-parametric	0.0019	0.0035		0.006	
MW-10	21/23	9%	0.001-0.001	0.011	0.000006598	0.002569	0.6154	0.006	mg/L	5	0	No	No	Stable		0.0074		Yes		Yes
MW-8	14/21	33%	0.001-0.01	0.003	0.000003793	0.001948	1.046	0.006	mg/L	0	1	Yes	No	Stable		<0.0010		No		No
MW-9	15/15	0%	-	0.048	0.0001173	0.01083	0.5546	0.006	mg/L	15	0	No	No	Stable		NS		NA		NA
CCR Appendix-IV: Fluoride (mg/L)																				
MW-7	16/21	24%	0.2-0.2	0.37	0.003366	0.05802	0.2037	4	mg/L	0	0	No	No	Decreasing	Normal	<0.200	0.370		4.0	
MW-10	16/19	16%	0.2-0.2	0.55	0.01234	0.1111	0.2802	4	mg/L	0	0	No	No	Stable		<0.200		No		No
MW-8	13/19	32%	0.2-0.2	0.33	0.001665	0.0408	0.1649	4	mg/L	0	0	No	No	Decreasing		<0.200		No		No
MW-9	13/14	7%	0.2-0.2	0.56	0.008003	0.08946	0.2248	4	mg/L	0	0	No	No	Stable		NS		NA		NA
CCR Appendix-IV: Lead, Total (mg/L)																				
MW-7	0/16	100%	0.005-0.01		0.000006667	0.002582	0.3443	0.015	mg/L	0	0	NA	NA	NA	NA	<0.010	0.010[2]		0.015	
MW-10	0/16	100%	0.005-0.01		0.000006667	0.002582	0.3443	0.015	mg/L	0	0	NA	NA	NA		<0.010		No		No
MW-8	1/15	93%	0.005-0.01	0.014	0.000009257	0.003043	0.4003	0.015	mg/L	0	0	No	No	NA		<0.010		No		No
MW-9	3/11	73%	0.005-0.01	0.0082	0.000004956	0.002226	0.3168	0.015	mg/L	0	0	No	No	Stable		NS		NA		NA
CCR Appendix-IV: Lithium, Total (mg/L)																				
MW-7	20/20	0%	-	0.035	0.00002446	0.004946	0.1873	0.04	mg/L	0	0	No	No	Increasing	Normal	0.033	0.0346		0.040	
MW-10	7/19	63%	0.01-0.01	0.014	0.000001982	0.001408	0.1311	0.04	mg/L	0	0	No	No	Increasing		0.014		No		No
MW-8	18/18	0%	-	0.03	0.00002166	0.004654	0.2258	0.04	mg/L	0	0	No	No	Stable		0.028		No		No
MW-9	10/13	23%	0.01-0.01	0.021	0.00001431	0.003783	0.2732	0.04	mg/L	0	0	No	No	Stable		NS		NA		NA
CCR Appendix-IV: Molybdenum, Total (mg/L)																				
MW-7	20/20	0%	-	0.021	0.00002026	0.004501	0.3684	0.1	mg/L	0	0	No	No	Stable	Normal	0.019	0.0196		0.100	
MW-10	19/19	0%	-	0.0061	0.000001014	0.001007	0.2565	0.1	mg/L	0	0	No	No	Stable		0.0045		No		No
MW-8	18/18	0%	-	0.049	0.00003249	0.0057	0.1447	0.1	mg/L	0	0	No	No	Stable		0.043		Yes		No
MW-9	12/13	8%	0.001-0.001	0.0085	0.000005898	0.002429	0.5719	0.1	mg/L	0	0	No	No	Stable		NS		NA		NA
CCR Appendix-IV: Radium-226 & 228 (pCi/L)																				
MW-7	12/20	40%	0-0.666	5.88	1.518	1.232	1.25	5	pCi/L	1	0	Yes	No	Stable	Non-parametric	1.33	5.88		5.88	
MW-10	16/17	6%	1.76-1.76	3.58	0.3374	0.5808	0.265	5	pCi/L	0	0	No	No	Stable		3.00		No		No
MW-8	13/17	24%	0.569-0.779	1.59	0.1459	0.382	0.4167	5	pCi/L	0	0	No	No	Stable		1.19		No		No
MW-9	13/13	0%	-	3.36	0.6575	0.8109	0.4392	5	pCi/L	0	0	No	No	Stable		NS		NA		NA

Notes:

[1] Based on background data collected from 08/30/2016 through 03/13/2024, unless otherwise noted.

[2] Based on background data collected from 08/30/2016 through 01/05/2023.

** Values obtained from U.S. Environmental Protection Agency Federal CCR Rule Title 40 Code of Federal Regulations (CFR) § 257.95(h)(2)*

CCR = coal combustion residuals

GWPS = Groundwater Protection Standard

MCL = maximum contaminant level

mg/L = milligrams per Liter

NA = not analyzed

NS = not sampled

pCi/L = picoCuries per Liter

RSL = regional screening level

SSI = statistically significant increase

SSL = statistically significant level

UTL = upper tolerance limits

TABLE II
STATISTICALLY SIGNIFICANT LEVELS OF APPENDIX IV CONSTITUENTS
SEPTEMBER 2024 SAMPLING EVENT
TECUMSEH ENERGY CENTER
BOTTOM ASH SETTLING AREA

Constituent	Well ID	Groundwater Protection Standard (mg/L)
Arsenic	MW-10	0.010
Cobalt	MW-10	0.006

Notes:
mg/L = milligrams per liter

ATTACHMENT 1-2
March 2025 Semiannual Groundwater Assessment Monitoring Data Statistical Evaluation

HALEY & ALDRICH, INC.
6500 Rockside Road
Suite 200
Cleveland, OH 44131
216.739.0555

TECHNICAL MEMORANDUM

August 12, 2025
File No. 0210310-002

TO: Evergy Kansas Central, Inc.
Jared Morrison – Director, Water and Waste Programs

FROM: Haley & Aldrich, Inc.
Steven F. Putrich, P.E., Principal Consultant – Engineering Principal
Mark Nicholls, P.G., Principal Consultant –Hydrogeologist

SUBJECT: March 2025 Semiannual Groundwater Assessment Monitoring Data Statistical Evaluation
Completed July 29, 2025
Tecumseh Energy Center, Bottom Ash Settling Area
Tecumseh, Kansas

Pursuant to Title 40 Code of Federal Regulations (40 CFR) §§ 257.93 and 257.95 (Rule), this memorandum summarizes the statistical evaluation of the analytical results for the **March 2025** semiannual assessment monitoring groundwater sampling event for the Tecumseh Energy Center (TEC) Bottom Ash Settling Area (BASA). This semiannual assessment monitoring groundwater sampling event was completed on **March 12 and 13, 2025**, with laboratory results received and validated on **May 29, 2025**. During the sampling event, downgradient monitoring well MW-9 did not contain sufficient water volume to successfully collect a sample.

The statistical evaluation discussed in this memorandum was conducted to determine if Appendix IV groundwater monitoring constituents have been detected in downgradient wells at concentrations that represent a statistically significant increase (SSI) above background values and if one or more of the constituents have been detected at statistically significant levels (SSL) above the groundwater protection standard (GWPS) consistent with the requirements of the Rule. GWPS values for each of the Appendix IV constituents have been set equal to the highest value of the maximum contaminant level, levels provided in 40 CFR § 257.95(h)(2) (from regional screening levels), or background concentrations.

Statistical Evaluation of Appendix IV Constituents

The Rule provides four specific options for statistical evaluation of groundwater quality data collected at a coal combustion residual (CCR) unit (40 CFR § 257.93(f)(1-4)). The statistical method used for this evaluation (tolerance limit [TL]) was certified by Haley & Aldrich, Inc. on January 14, 2019. The TL method, as determined applicable for this sampling event, was used to evaluate potential SSLs above background. Background levels for each constituent listed in Appendix IV were computed as upper tolerance limits (UTL), and a minimum 95 percent confidence coefficient and 95 percent coverage. The most recent groundwater sampling event from each compliance well was compared to the corresponding background UTL to determine if an SSI existed.

STATISTICAL EVALUATION

An interwell evaluation was used to determine SSIs. Interwell evaluation compares the most recent values from downgradient compliance wells against a background dataset composed of upgradient well data. Because the CCR unit has transitioned into assessment monitoring, no statistical evaluation of Appendix III (detection monitoring) semiannual assessment monitoring data was conducted.

The TL method was used to complete statistical evaluation of the referenced dataset. The TL procedure is one in which a concentration limit for each constituent is established from the distribution of the background data, with a minimum 95 percent confidence level. The upper endpoint of a tolerance interval is called the UTL. Depending on the data distribution, parametric or non-parametric TL procedures are used to evaluate groundwater monitoring data using this method. Parametric TLs utilize normally distributed data or normalized data via a transformation of the sample background data used to construct the limit. If the data are non-normal and a transformation is not indicated, non-parametric procedures (order statistics or bootstrap methods) are used to calculate the TL. If all the background data are non-detect, a maximum reporting limit may serve as an appropriate UTL.

This statistical evaluation was conducted using the background dataset for all Appendix IV constituents that were detected in the annual assessment monitoring sample event using parametric TLs. If an Appendix IV constituent concentration from the **March 2025** sampling event was above the GWPS, the lower confidence limit (LCL) for the downgradient well constituent will be used to evaluate if an SSI is present. The LCL is the lower end of the confidence interval range, which is an estimated concentration range intended to contain the true mean or median of the population from which the sample is drawn. The confidence interval range is designed to locate the true population mean or median with a high degree of statistical confidence, or conversely, with a low probability of error.

The UTLs were calculated from the background well dataset using Chemstat software after testing for outlier sample results that would warrant removal from the dataset based on likely error in sampling or measurement. Both visual and statistical outlier tests for the background data were performed using Chemstat and U.S. Environmental Protection Agency's ProUCL 5.1 software, and a visual inspection of the data was performed using box plots and distribution plots for the downgradient sample data. No sample data were identified as outliers that warranted removal from the dataset.

BACKGROUND DISTRIBUTIONS

The groundwater analytical results for each sampling event from the background sample location MW-7 were combined to calculate the UTL for each detected Appendix IV constituent. The variability and distribution of the pooled dataset were evaluated to determine the method for UTL calculation. In accordance with the document titled *Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, Unified Guidance, March 2009,* background concentrations were updated based on statistical evaluation of analytical results collected through **March 2024** for all constituents except chromium, which was updated through **December 2024.**

RESULTS OF APPENDIX IV DOWNGRADIENT STATISTICAL COMPARISONS

Sample concentrations from the downgradient wells for each of the detected Appendix IV constituents from the **March 2025** semiannual assessment monitoring event were compared to their respective background UTL and GWPS values (Table I). A sample concentration greater than the background UTL is considered to represent an SSI. A sample concentration greater than the GWPS is considered to represent an SSL. The results of the groundwater assessment monitoring statistical evaluation are provided in Table I. **Based on this statistical evaluation of groundwater sampling data collected in March 2025, the SSLs above GWPS for the TEC BASA are listed in Table II.** All detected SSLs are consistent with previously identified SSLs at the TEC BASA.

Attachments:

Table I – Summary of Semiannual Assessment Groundwater Monitoring Statistical Evaluation
Table II – Statistically Significant Levels of Appendix IV Constituents

TABLES

TABLE I
SUMMARY OF SEMIANNUAL ASSESSMENT GROUNDWATER MONITORING STATISTICAL EVALUATION
MARCH 2025 SAMPLING EVENT
TECUMSEH ENERGY CENTER BOTTOM ASH SETTLING AREA
TECUMSEH, KANSAS

										MCL Comparison						Interwell Analysis			Groundwater Protection Standard	
Location Id	Frequency of Detection	Percent Non-Detects	Range of Non-Detect	Maximum Detect	Variance	Standard Deviation	Coefficient of Variance	CCR MCL/RSL §257.95(h)(2)*	Report Result Unit	Number of Detection Exceedances	Number of Non-Detection Exceedances	Outlier Presence	Outlier Removed	Trend	Distribution Well	March 2025 Concentration (mg/L)	Upper Tolerance Limit (mg/L)	SSI	GWPS (Higher of MCL/RSL or UTL) mg/L	SSL
CCR Appendix-IV: Arsenic, Total (mg/L)																				
MW-7	25/25	0%	-	0.0042	3.851E-07	0.0006206	0.355	0.01	mg/L	0	0	Yes	No	Increasing	Non-parametric	0.0042	0.0021		0.010	
MW-10	25/25	0%	-	0.077	0.0005288	0.023	0.5896	0.01	mg/L	21	0	No	No	Decreasing		0.0037		Yes		No
MW-8	22/23	4%	0.01-0.01	0.0047	0.00000354	0.001882	0.7153	0.01	mg/L	0	0	Yes	No	Stable		0.0015		No		No
MW-9	15/15	0%	-	0.25	0.003018	0.05494	0.4723	0.01	mg/L	15	0	Yes	No	Stable		NS		NA		NA
CCR Appendix-IV: Barium, Total (mg/L)																				
MW-7	22/22	0%	-	0.16	0.0004978	0.02231	0.3041	2	mg/L	0	0	Yes	No	Decreasing	Normal	0.16	0.0907		2	
MW-10	21/21	0%	-	0.36	0.005289	0.07273	0.2772	2	mg/L	0	0	No	No	Decreasing		0.12		Yes		No
MW-8	19/19	0%	-	0.17	0.0008442	0.02906	0.4192	2	mg/L	0	0	Yes	No	Stable		0.055		No		No
MW-9	13/13	0%	-	0.91	0.02334	0.1528	0.2052	2	mg/L	0	0	Yes	No	Stable		NS		NA		NA
CCR Appendix-IV: Chromium, Total (mg/L)																				
MW-7	1/18	94%	0.005-0.005	0.012	0.000002722	0.00165	0.3062	0.1	mg/L	0	0	No	No	NA	NA	0.012	0.005[2]		0.1	
MW-10	0/18	100%	0.001-0.005		8.889E-07	0.0009428	0.1973	0.1	mg/L	0	0	NA	NA	NA		<0.0010		No		No
MW-8	4/17	76%	0.005-0.005	0.069	0.0002532	0.01591	1.627	0.1	mg/L	0	0	Yes	No	NA		0.0016		No		No
MW-9	1/11	91%	0.005-0.005	0.005	1.084E-20	1.041E-10	2.083E-08	0.1	mg/L	0	0	No	No	NA		NS		NA		NA
CCR Appendix-IV: Cobalt, Total (mg/L)																				
MW-7	22/25	12%	0.001-0.001	0.01	0.000003152	0.001775	0.9132	0.006	mg/L	1	0	Yes	No	Stable	Non-parametric	0.010	0.0035		0.006	
MW-10	23/25	8%	0.001-0.001	0.011	0.000006445	0.002539	0.5877	0.006	mg/L	6	0	No	No	Stable		0.0073		Yes		Yes
MW-8	14/23	39%	0.001-0.01	0.003	0.00000351	0.001874	1.048	0.006	mg/L	0	1	Yes	No	Stable		<0.0010		No		No
MW-9	15/15	0%	-	0.048	0.0001173	0.01083	0.5546	0.006	mg/L	15	0	No	No	Stable		NS		NA		NA
CCR Appendix-IV: Fluoride (mg/L)																				
MW-7	18/23	22%	0.2-0.2	0.37	0.003089	0.05557	0.1943	4	mg/L	0	0	No	No	Decreasing	Non-parametric	0.31	0.370		4.0	
MW-10	18/21	14%	0.2-0.2	0.55	0.01146	0.1071	0.2735	4	mg/L	0	0	No	No	Decreasing		0.38		Yes		No
MW-8	15/21	29%	0.2-0.2	0.33	0.001529	0.0391	0.157	4	mg/L	0	0	No	No	Stable		0.26		No		No
MW-9	13/14	7%	0.2-0.2	0.56	0.008003	0.08946	0.2248	4	mg/L	0	0	No	No	Stable		NS		NA		NA
CCR Appendix-IV: Lithium, Total (mg/L)																				
MW-7	22/22	0%	-	0.035	0.00002544	0.005043	0.1872	0.04	mg/L	0	0	No	No	Increasing	Normal	0.034	0.0346		0.040	
MW-10	8/21	62%	0.01-0.01	0.014	0.00000189	0.001375	0.1278	0.04	mg/L	0	0	No	No	Increasing		<0.010		No		No
MW-8	20/20	0%	-	0.03	0.00002037	0.004513	0.2196	0.04	mg/L	0	0	No	No	Stable		0.017		No		No
MW-9	10/13	23%	0.01-0.01	0.021	0.00001431	0.003783	0.2732	0.04	mg/L	0	0	No	No	Stable		NS		NA		NA
CCR Appendix-IV: Molybdenum, Total (mg/L)																				
MW-7	22/22	0%	-	0.021	0.00002096	0.004578	0.3605	0.1	mg/L	0	0	No	No	Stable	Normal	0.016	0.0196		0.100	
MW-10	21/21	0%	-	0.0061	0.000001064	0.001031	0.27	0.1	mg/L	0	0	No	No	Stable		0.0034		No		No
MW-8	20/20	0%	-	0.049	0.00002919	0.005402	0.1373	0.1	mg/L	0	0	Yes	No	Stable		0.040		Yes		No
MW-9	12/13	8%	0.001-0.001	0.0085	0.000005898	0.002429	0.5719	0.1	mg/L	0	0	No	No	Stable		NS		NA		NA
CCR Appendix-IV: Radium-226 & 228 (pCi/L)																				
MW-7	14/22	36%	0-0.666	5.88	1.382	1.176	1.172	5	pCi/L	1	0	Yes	No	Stable	Non-parametric	0.933	5.88		5.88	
MW-10	18/19	5%	1.76-1.76	3.58	0.3058	0.553	0.2494	5	pCi/L	0	0	No	No	Stable		2.48		No		No
MW-8	14/19	26%	0.569-0.779	1.59	0.1357	0.3684	0.3965	5	pCi/L	0	0	No	No	Stable		0.832		No		No
MW-9	13/13	0%	-	3.36	0.6575	0.8109	0.4392	5	pCi/L	0	0	No	No	Stable		NS		NA		NA

Notes:

[1] Based on background data collected from 08/30/2016 through 03/13/2024, unless otherwise noted.

[2] Based on background data collected from 08/30/2016 through 12/16/2024.

** Values obtained from U.S. Environmental Protection Agency Federal CCR Rule Title 40 Code of Federal Regulations (CFR) § 257.95(h)(2)*

CCR = coal combustion residuals

GWPS = Groundwater Protection Standard

MCL = maximum contaminant level

mg/L = milligrams per Liter

NA = not analyzed

NS = not sampled

pCi/L = picoCuries per Liter

RSL = regional screening level

SSI = statistically significant increase

SSL = statistically significant level

UTL = upper tolerance limits

TABLE II
STATISTICALLY SIGNIFICANT LEVELS OF APPENDIX IV CONSTITUENTS
MARCH 2025 SAMPLING EVENT
TECUMSEH ENERGY CENTER, BOTTOM ASH SETTLING AREA
TECUMSEH, KANSAS

Constituent	Well ID	Groundwater Protection Standard (mg/L)
Cobalt	MW-10	0.006

Notes:
mg/L = milligrams per liter

ATTACHMENT 2
Laboratory Analytical Reports

ATTACHMENT 2-1
December 2024 Semiannual Sampling Event Laboratory Analytical Report

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

February 05, 2025

Jake Humphrey
Evergy, Inc.
818 S Kansas Avenue
Topeka, KS 66612

RE: Project: TEC BASA-Revised Report
Pace Project No.: 60466594

Dear Jake Humphrey:

Enclosed are the analytical results for sample(s) received by the laboratory on December 16, 2024. 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

REVISED to include reanalysis data for MW-7 Ba,Cr,Co,Li,Se per client request

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

Sincerely,

Alice Spiller

Alice Spiller
alice.spiller@pacelabs.com
(913)599-5665
PM Lab Management

Enclosures

cc: Heath Horyna, Evergy, Inc.
Samantha Kaney, Haley & Aldrich
Melanie Satanek, Haley & Aldrich, Inc.
Adriana Sosa, Haley & Aldrich, Inc.
Nick Williams, Haley Aldrich

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CERTIFICATIONS

Project: TEC BASA-Revised Report
Pace Project No.: 60466594

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

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SAMPLE SUMMARY

Project: TEC BASA-Revised Report
Pace Project No.: 60466594

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60466594001	**MW-7-121624**	Water	12/16/24 10:20	12/16/24 16:18
60466594002	**MW-8-121624**	Water	12/16/24 12:25	12/16/24 16:18
60466594003	**MW-10-121624**	Water	12/16/24 11:35	12/16/24 16:18
60466594004	**TEC-BASA-DUP-121624**	Water	12/16/24 10:20	12/16/24 16:18

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SAMPLE ANALYTE COUNT

Project: TEC BASA-Revised Report
Pace Project No.: 60466594

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60466594001	**MW-7-121624**	EPA 200.7	ARMN	4	PASI-K
		EPA 6010	ARMN	1	PASI-K
		EPA 200.8	JGP, MLD	8	PASI-K
		EPA 245.1	MNG	1	PASI-K
		EPA 300.0	AAA	1	PASI-K
60466594002	**MW-8-121624**	EPA 200.7	ARMN	4	PASI-K
		EPA 6010	ARMN	1	PASI-K
		EPA 200.8	JGP	7	PASI-K
		EPA 245.1	MNG	1	PASI-K
		EPA 300.0	AAA	1	PASI-K
60466594003	**MW-10-121624**	EPA 200.7	ARMN	4	PASI-K
		EPA 6010	ARMN	1	PASI-K
		EPA 200.8	JGP	7	PASI-K
		EPA 245.1	MNG	1	PASI-K
		EPA 300.0	AAA	1	PASI-K
60466594004	**TEC-BASA-DUP-121624**	EPA 200.7	ARMN	4	PASI-K
		EPA 6010	ARMN	1	PASI-K
		EPA 200.8	JGP	7	PASI-K
		EPA 245.1	MNG	1	PASI-K
		EPA 300.0	AAA	1	PASI-K

PASI-K = Pace Analytical Services - Kansas City

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PROJECT NARRATIVE

Project: TEC BASA-Revised Report
Pace Project No.: 60466594

Method: **EPA 200.7**
Description: 200.7 Metals, Total
Client: Evergy_Haley & Aldrich
Date: February 05, 2025

General Information:
4 samples were analyzed for EPA 200.7 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 200.7 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA-Revised Report
Pace Project No.: 60466594

Method: **EPA 6010**
Description: 6010 MET ICP
Client: Evergy_Haley & Aldrich
Date: February 05, 2025

General Information:
4 samples were analyzed for EPA 6010 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA-Revised Report
Pace Project No.: 60466594

Method: **EPA 200.8**
Description: 200.8 MET ICPMS
Client: Evergy_Haley & Aldrich
Date: February 05, 2025

General Information:
4 samples were analyzed for EPA 200.8 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 200.8 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 919899

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60466594004

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MSD (Lab ID: 3643675)
  - Molybdenum

Additional Comments:

Analyte Comments:

QC Batch: 919899

D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

- MW-7-121624 (Lab ID: 60466594001)
  - Thallium, Total Recoverable

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PROJECT NARRATIVE

Project: TEC BASA-Revised Report
Pace Project No.: 60466594

Method: **EPA 245.1**
Description: 245.1 Mercury
Client: Evergy_Haley & Aldrich
Date: February 05, 2025

General Information:
4 samples were analyzed for EPA 245.1 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 245.1 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA-Revised Report
Pace Project No.: 60466594

Method: **EPA 300.0**
Description: 300.0 IC Anions 28 Days
Client: Evergy_Haley & Aldrich
Date: February 05, 2025

General Information:
4 samples were analyzed for EPA 300.0 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 921363

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60467138004,60467240001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 3649488)
  - Fluoride
- MSD (Lab ID: 3649489)
  - Fluoride

R1: RPD value was outside control limits.

- MSD (Lab ID: 3649489)
  - Fluoride

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: TEC BASA-Revised Report
Pace Project No.: 60466594

Sample: MW-7-121624 **Lab ID: 60466594001** Collected: 12/16/24 10:20 Received: 12/16/24 16:18 Matrix: Water

Parameters	Results	Units	Report Limit	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, Total Recoverable	**0.063**	mg/L	0.0050	1	01/29/25 14:25	01/30/25 11:09	7440-39-3	
Beryllium, Total Recoverable	**<0.0010**	mg/L	0.0010	1	12/17/24 15:55	01/10/25 11:19	7440-41-7	
Chromium, Total Recoverable	**<0.0050**	mg/L	0.0050	1	01/29/25 14:25	01/30/25 11:09	7440-47-3	
Lead, Total Recoverable	**<0.010**	mg/L	0.010	1	12/17/24 15:55	01/10/25 11:19	7439-92-1	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Kansas City							
Lithium, Total Recoverable	**0.031**	mg/L	0.010	1	01/29/25 14:25	01/30/25 10:54	7439-93-2	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City							
Antimony, Total Recoverable	**<0.0010**	mg/L	0.0010	1	12/17/24 15:55	01/07/25 12:43	7440-36-0	
Arsenic, Total Recoverable	**0.0030**	mg/L	0.0010	1	12/17/24 15:55	01/07/25 12:43	7440-38-2	
Cadmium, Total Recoverable	**<0.00050**	mg/L	0.00050	1	12/17/24 15:55	01/07/25 12:43	7440-43-9	
Chromium, Total Recoverable	**<0.0010**	mg/L	0.0010	1	01/29/25 14:25	01/30/25 09:51	7440-47-3	
Cobalt, Total Recoverable	**0.0011**	mg/L	0.0010	1	01/29/25 14:25	01/30/25 09:51	7440-48-4	
Molybdenum, Total Recoverable	**0.019**	mg/L	0.0010	1	12/17/24 15:55	01/07/25 12:43	7439-98-7	
Selenium, Total Recoverable	**<0.0010**	mg/L	0.0010	1	01/29/25 14:25	01/30/25 09:51	7782-49-2	
Thallium, Total Recoverable	**<0.0020**	mg/L	0.0020	2	12/17/24 15:55	01/07/25 12:56	7440-28-0	D3
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Kansas City							
Mercury	**<0.20**	ug/L	0.20	1	01/08/25 09:11	01/08/25 13:25	7439-97-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City							
Fluoride	**0.29**	mg/L	0.20	1		01/07/25 21:48	16984-48-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TEC BASA-Revised Report
Pace Project No.: 60466594

Sample: MW-8-121624 **Lab ID: 60466594002** Collected: 12/16/24 12:25 Received: 12/16/24 16:18 Matrix: Water

Parameters	Results	Units	Report Limit	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, Total Recoverable	**0.054**	mg/L	0.0050	1	12/17/24 15:55	01/10/25 11:21	7440-39-3	
Beryllium, Total Recoverable	**<0.0010**	mg/L	0.0010	1	12/17/24 15:55	01/10/25 11:21	7440-41-7	
Chromium, Total Recoverable	**<0.0050**	mg/L	0.0050	1	12/17/24 15:55	01/10/25 11:21	7440-47-3	
Lead, Total Recoverable	**<0.010**	mg/L	0.010	1	12/17/24 15:55	01/10/25 11:21	7439-92-1	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Kansas City							
Lithium, Total Recoverable	**0.023**	mg/L	0.010	1	12/17/24 15:55	01/10/25 11:41	7439-93-2	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City							
Antimony, Total Recoverable	**<0.0010**	mg/L	0.0010	1	12/17/24 15:55	01/07/25 12:46	7440-36-0	
Arsenic, Total Recoverable	**0.0013**	mg/L	0.0010	1	12/17/24 15:55	01/07/25 12:46	7440-38-2	
Cadmium, Total Recoverable	**<0.00050**	mg/L	0.00050	1	12/17/24 15:55	01/07/25 12:46	7440-43-9	
Cobalt, Total Recoverable	**<0.0010**	mg/L	0.0010	1	12/17/24 15:55	01/07/25 12:46	7440-48-4	
Molybdenum, Total Recoverable	**0.038**	mg/L	0.0010	1	12/17/24 15:55	01/07/25 12:46	7439-98-7	
Selenium, Total Recoverable	**<0.0010**	mg/L	0.0010	1	12/17/24 15:55	01/07/25 12:46	7782-49-2	
Thallium, Total Recoverable	**<0.0010**	mg/L	0.0010	1	12/17/24 15:55	01/07/25 12:46	7440-28-0	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Kansas City							
Mercury	**<0.20**	ug/L	0.20	1	01/08/25 09:11	01/08/25 13:27	7439-97-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City							
Fluoride	**0.27**	mg/L	0.20	1		01/07/25 22:01	16984-48-8	

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ANALYTICAL RESULTS

Project: TEC BASA-Revised Report
Pace Project No.: 60466594

Sample: MW-10-121624 **Lab ID: 60466594003** Collected: 12/16/24 11:35 Received: 12/16/24 16:18 Matrix: Water

Parameters	Results	Units	Report Limit	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, Total Recoverable	**0.16**	mg/L	0.0050	1	12/17/24 15:55	01/10/25 11:23	7440-39-3	
Beryllium, Total Recoverable	**<0.0010**	mg/L	0.0010	1	12/17/24 15:55	01/10/25 11:23	7440-41-7	
Chromium, Total Recoverable	**<0.0050**	mg/L	0.0050	1	12/17/24 15:55	01/10/25 11:23	7440-47-3	
Lead, Total Recoverable	**<0.010**	mg/L	0.010	1	12/17/24 15:55	01/10/25 11:23	7439-92-1	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Kansas City							
Lithium, Total Recoverable	**0.012**	mg/L	0.010	1	12/17/24 15:55	01/10/25 11:47	7439-93-2	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City							
Antimony, Total Recoverable	**<0.0010**	mg/L	0.0010	1	12/17/24 15:55	01/07/25 12:49	7440-36-0	
Arsenic, Total Recoverable	**0.0034**	mg/L	0.0010	1	12/17/24 15:55	01/07/25 12:49	7440-38-2	
Cadmium, Total Recoverable	**<0.00050**	mg/L	0.00050	1	12/17/24 15:55	01/07/25 12:49	7440-43-9	
Cobalt, Total Recoverable	**0.0047**	mg/L	0.0010	1	12/17/24 15:55	01/07/25 12:49	7440-48-4	
Molybdenum, Total Recoverable	**0.0022**	mg/L	0.0010	1	12/17/24 15:55	01/07/25 12:49	7439-98-7	
Selenium, Total Recoverable	**<0.0010**	mg/L	0.0010	1	12/17/24 15:55	01/07/25 12:49	7782-49-2	
Thallium, Total Recoverable	**<0.0010**	mg/L	0.0010	1	12/17/24 15:55	01/07/25 12:49	7440-28-0	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Kansas City							
Mercury	**<0.20**	ug/L	0.20	1	01/08/25 09:11	01/08/25 13:29	7439-97-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City							
Fluoride	**0.31**	mg/L	0.20	1		01/07/25 22:15	16984-48-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TEC BASA-Revised Report
Pace Project No.: 60466594

Sample: TEC-BASA-DUP-121624 **Lab ID: 60466594004** Collected: 12/16/24 10:20 Received: 12/16/24 16:18 Matrix: Water

Parameters	Results	Units	Report Limit	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, Total Recoverable	**0.069**	mg/L	0.0050	1	12/17/24 15:55	01/10/25 11:28	7440-39-3	
Beryllium, Total Recoverable	**<0.0010**	mg/L	0.0010	1	12/17/24 15:55	01/10/25 11:28	7440-41-7	
Chromium, Total Recoverable	**<0.0050**	mg/L	0.0050	1	12/17/24 15:55	01/10/25 11:28	7440-47-3	
Lead, Total Recoverable	**<0.010**	mg/L	0.010	1	12/17/24 15:55	01/10/25 11:28	7439-92-1	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Kansas City							
Lithium, Total Recoverable	**0.033**	mg/L	0.010	1	12/17/24 15:55	01/10/25 11:48	7439-93-2	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City							
Antimony, Total Recoverable	**<0.0010**	mg/L	0.0010	1	12/17/24 15:55	01/07/25 13:03	7440-36-0	
Arsenic, Total Recoverable	**0.0011**	mg/L	0.0010	1	12/17/24 15:55	01/07/25 13:03	7440-38-2	
Cadmium, Total Recoverable	**<0.00050**	mg/L	0.00050	1	12/17/24 15:55	01/07/25 13:03	7440-43-9	
Cobalt, Total Recoverable	**0.0011**	mg/L	0.0010	1	12/17/24 15:55	01/07/25 13:03	7440-48-4	
Molybdenum, Total Recoverable	**0.017**	mg/L	0.0010	1	12/17/24 15:55	01/07/25 13:03	7439-98-7	M1
Selenium, Total Recoverable	**<0.0010**	mg/L	0.0010	1	12/17/24 15:55	01/07/25 13:03	7782-49-2	
Thallium, Total Recoverable	**<0.0010**	mg/L	0.0010	1	12/17/24 15:55	01/07/25 13:03	7440-28-0	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Kansas City							
Mercury	**<0.20**	ug/L	0.20	1	01/08/25 09:11	01/08/25 13:31	7439-97-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City							
Fluoride	**0.29**	mg/L	0.20	1		01/07/25 22:29	16984-48-8	

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QUALITY CONTROL DATA

Project: TEC BASA-Revised Report
Pace Project No.: 60466594

QC Batch: 921522 | Analysis Method: EPA 245.1
QC Batch Method: EPA 245.1 | Analysis Description: 245.1 Mercury
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60466594001, 60466594002, 60466594003, 60466594004

METHOD BLANK: 3649835 Matrix: Water
Associated Lab Samples: 60466594001, 60466594002, 60466594003, 60466594004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	<0.20	0.20	01/08/25 13:13	

LABORATORY CONTROL SAMPLE: 3649836

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.0	101	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3649837 3649838

Parameter	Units	60466175002 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	4.7	4.7	94	93	70-130	0	20	

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QUALITY CONTROL DATA

Project: TEC BASA-Revised Report
Pace Project No.: 60466594

QC Batch: 919905
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: 60466594001, 60466594002, 60466594003, 60466594004

METHOD BLANK: 3643689 Matrix: Water
Associated Lab Samples: 60466594001, 60466594002, 60466594003, 60466594004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Barium	mg/L	<0.0050	0.0050	01/10/25 11:16	
Beryllium	mg/L	<0.0010	0.0010	01/10/25 11:16	
Chromium	mg/L	<0.0050	0.0050	01/10/25 11:16	
Lead	mg/L	<0.010	0.010	01/10/25 11:16	

LABORATORY CONTROL SAMPLE: 3643690

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	mg/L	1	1.0	103	85-115	
Beryllium	mg/L	1	1.1	108	85-115	
Chromium	mg/L	1	1.0	103	85-115	
Lead	mg/L	1	1.1	106	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3643691 3643692

Parameter	Units	60466594003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	mg/L	0.16	1	1	1.2	1.2	103	102	70-130	1	20	
Beryllium	mg/L	<0.0010	1	1	1.1	1.1	109	108	70-130	2	20	
Chromium	mg/L	<0.0050	1	1	1.0	1.0	104	103	70-130	1	20	
Lead	mg/L	<0.010	1	1	1.0	1.0	103	102	70-130	1	20	

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QUALITY CONTROL DATA

Project: TEC BASA-Revised Report
Pace Project No.: 60466594

QC Batch: 923470
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: 60466594001

METHOD BLANK: 3657013 Matrix: Water
Associated Lab Samples: 60466594001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Barium	mg/L	<0.0050	0.0050	01/30/25 11:05	
Chromium	mg/L	<0.0050	0.0050	01/30/25 11:05	

LABORATORY CONTROL SAMPLE: 3657014

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	mg/L	1	0.96	96	85-115	
Chromium	mg/L	1	0.96	96	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3657015 3657016

Parameter	Units	60466594001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	mg/L	0.063	1	1	1.0	0.99	95	93	70-130	3	20	
Chromium	mg/L	<0.0050	1	1	0.94	0.93	94	93	70-130	0	20	

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QUALITY CONTROL DATA

Project: TEC BASA-Revised Report
Pace Project No.: 60466594

QC Batch: 919899
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: 60466594001, 60466594002, 60466594003, 60466594004

METHOD BLANK: 3643672 Matrix: Water
Associated Lab Samples: 60466594001, 60466594002, 60466594003, 60466594004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	mg/L	<0.0010	0.0010	01/07/25 12:38	
Arsenic	mg/L	<0.0010	0.0010	01/07/25 12:38	
Cadmium	mg/L	<0.00050	0.00050	01/07/25 12:38	
Cobalt	mg/L	<0.0010	0.0010	01/07/25 12:38	
Molybdenum	mg/L	<0.0010	0.0010	01/07/25 12:38	
Selenium	mg/L	<0.0010	0.0010	01/07/25 12:38	
Thallium	mg/L	<0.0010	0.0010	01/07/25 12:38	

LABORATORY CONTROL SAMPLE: 3643673

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.04	0.039	97	85-115	
Arsenic	mg/L	0.04	0.038	96	85-115	
Cadmium	mg/L	0.04	0.040	100	85-115	
Cobalt	mg/L	0.04	0.039	98	85-115	
Molybdenum	mg/L	0.04	0.039	99	85-115	
Selenium	mg/L	0.04	0.038	96	85-115	
Thallium	mg/L	0.04	0.039	97	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3643674 3643675

Parameter	Units	60466594004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	<0.0010	0.04	0.04	0.041	0.044	102	111	70-130	8	20	
Arsenic	mg/L	0.0011	0.04	0.04	0.046	0.051	111	124	70-130	11	20	
Cadmium	mg/L	<0.00050	0.04	0.04	0.039	0.042	96	105	70-130	9	20	
Cobalt	mg/L	0.0011	0.04	0.04	0.044	0.049	108	121	70-130	11	20	
Molybdenum	mg/L	0.017	0.04	0.04	0.064	0.072	117	137	70-130	12	20	M1
Selenium	mg/L	<0.0010	0.04	0.04	0.042	0.045	104	112	70-130	8	20	
Thallium	mg/L	<0.0010	0.04	0.04	0.042	0.047	106	117	70-130	10	20	

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QUALITY CONTROL DATA

Project: TEC BASA-Revised Report
Pace Project No.: 60466594

QC Batch: 923469
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: 60466594001

METHOD BLANK: 3657006 Matrix: Water
Associated Lab Samples: 60466594001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium	mg/L	<0.0010	0.0010	01/30/25 09:46	
Cobalt	mg/L	<0.0010	0.0010	01/30/25 09:46	
Selenium	mg/L	<0.0010	0.0010	01/30/25 09:46	

LABORATORY CONTROL SAMPLE: 3657007

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium	mg/L	0.04	0.035	87	85-115	
Cobalt	mg/L	0.04	0.036	89	85-115	
Selenium	mg/L	0.04	0.037	91	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3657008 3657009

Parameter	Units	60466594001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chromium	mg/L	<0.0010	0.04	0.04	0.034	0.034	83	83	70-130	0	20	
Cobalt	mg/L	0.0011	0.04	0.04	0.036	0.037	88	89	70-130	1	20	
Selenium	mg/L	<0.0010	0.04	0.04	0.036	0.037	90	93	70-130	3	20	

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QUALITY CONTROL DATA

Project: TEC BASA-Revised Report
Pace Project No.: 60466594

QC Batch: 919900
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60466594002, 60466594003, 60466594004

METHOD BLANK: 3643676 Matrix: Water
Associated Lab Samples: 60466594002, 60466594003, 60466594004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lithium	mg/L	<0.010	0.010	01/10/25 11:36	

LABORATORY CONTROL SAMPLE: 3643677

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lithium	mg/L	1	1.0	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3643678 3643679

Parameter	Units	60466594002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lithium	mg/L	0.023	1	1	1.1	1.1	106	106	75-125	0	20	

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QUALITY CONTROL DATA

Project: TEC BASA-Revised Report
Pace Project No.: 60466594

QC Batch: 923472
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60466594001

METHOD BLANK: 3657026 Matrix: Water
Associated Lab Samples: 60466594001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lithium	mg/L	<0.010	0.010	01/30/25 10:50	

LABORATORY CONTROL SAMPLE: 3657027

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lithium	mg/L	1	0.91	91	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3657028 3657029

Parameter	Units	60466594001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lithium	mg/L	0.031	1	1	0.96	0.89	93	86	75-125	7	20	

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QUALITY CONTROL DATA

Project: TEC BASA-Revised Report
Pace Project No.: 60466594

QC Batch: 921363 | Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 | Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60466594001, 60466594002, 60466594003, 60466594004

METHOD BLANK: 3649486 Matrix: Water
Associated Lab Samples: 60466594001, 60466594002, 60466594003, 60466594004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Fluoride	mg/L	<0.20	0.20	01/07/25 19:43	

LABORATORY CONTROL SAMPLE: 3649487

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Fluoride	mg/L	2.5	2.3	93	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3649488 3649489

Parameter	Units	60467240001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Fluoride	mg/L	ND	2.5	2.5	5.9	4.7	235	187	80-120	22	15	CH, M1, R1

MATRIX SPIKE SAMPLE: 3649490

Parameter	Units	60467138004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Fluoride	mg/L	ND	1250	1310	105	80-120	

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QUALIFIERS

Project: TEC BASA-Revised Report
Pace Project No.: 60466594

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.

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TNI - The NELAC Institute.

ANALYTE QUALIFIERS

CH	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.
D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
R1	RPD value was outside control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: TEC BASA-Revised Report
Pace Project No.: 60466594

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60466594001	**MW-7-121624**	EPA 200.7	919905	EPA 200.7	919946
60466594001	**MW-7-121624**	EPA 200.7	923470	EPA 200.7	923521
60466594002	**MW-8-121624**	EPA 200.7	919905	EPA 200.7	919946
60466594003	**MW-10-121624**	EPA 200.7	919905	EPA 200.7	919946
60466594004	**TEC-BASA-DUP-121624**	EPA 200.7	919905	EPA 200.7	919946
60466594001	**MW-7-121624**	EPA 3010	923472	EPA 6010	923523
60466594002	**MW-8-121624**	EPA 3010	919900	EPA 6010	919947
60466594003	**MW-10-121624**	EPA 3010	919900	EPA 6010	919947
60466594004	**TEC-BASA-DUP-121624**	EPA 3010	919900	EPA 6010	919947
60466594001	**MW-7-121624**	EPA 200.8	919899	EPA 200.8	919948
60466594001	**MW-7-121624**	EPA 200.8	923469	EPA 200.8	923524
60466594002	**MW-8-121624**	EPA 200.8	919899	EPA 200.8	919948
60466594003	**MW-10-121624**	EPA 200.8	919899	EPA 200.8	919948
60466594004	**TEC-BASA-DUP-121624**	EPA 200.8	919899	EPA 200.8	919948
60466594001	**MW-7-121624**	EPA 245.1	921522	EPA 245.1	921532
60466594002	**MW-8-121624**	EPA 245.1	921522	EPA 245.1	921532
60466594003	**MW-10-121624**	EPA 245.1	921522	EPA 245.1	921532
60466594004	**TEC-BASA-DUP-121624**	EPA 245.1	921522	EPA 245.1	921532
60466594001	**MW-7-121624**	EPA 300.0	921363		
60466594002	**MW-8-121624**	EPA 300.0	921363		
60466594003	**MW-10-121624**	EPA 300.0	921363		
60466594004	**TEC-BASA-DUP-121624**	EPA 300.0	921363		

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Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-LENE-0009_Sam	WO# : 60466594
	Revision: 2	Effective Date: 01/12/2

60466594

Client Name: Evergy KS Central

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: T298 **Type of Ice:** (Wet) Blue None

Cooler Temperature (°C): **As-read** 1.1 **Corr. Factor** -0.1 **Corrected** 1.0

Date and initials of person examining contents: CJ 12/10

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#:** 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® 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

6046665 94

Scan QR Code for instructions

Company Name:	Evergy Kansas Central, Inc.	Contact/Report To:	Jake Humphrey
Street Address:	818 S Kansas Avenue, Topeka, KS 66612	Phone #:	(913)634-0605
		E-Mail:	jake.humphrey@evergy.com
		Cc E-Mail:	skaney@haleyaldrich.com
Customer Project #:			
Project Name:	TEC BASA	Invoice To:	Tecumseh Center
		Invoice E-Mail:	evergyap@onlinecapturecenter.com
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	WSTR-2000018660
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [X] CT [ ] ET

County / State origin of sample(s): Kansas

Data Deliverables:
[ ] Level II [ ] Level III [ ] Level IV
[ ] EQUIS
[ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [ ] Yes [X] 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 [X] 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	200.7 / 200.8 / 245.1 / 6010	300.0 IC - F									Sample Comment
Specify Container Size **										3	3									
Identify Container Preservative Type***										2	1									
MW-7-121624	WT	Grab	-	-	12/16/2024	1020	2	-	-	X	X									
MW-8-121624	WT	Grab	-	-	12/16/2024	1225	2	-	-	X	X									
MW-9-121624	NS	NS	-	-	NS	NS	NS	-	-	-	-									NS - No Sample; Insufficient Groundwater
MW-10-121624	WT	Grab	-	-	12/16/2024	1135	2	-	-	X	X									
TEC-BASA-DUP-121624	WT	Grab	-	-	12/16/2024	1020	2	-	-	X	X									

**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: Alice Spiller
AcctNum / Client ID:
Table #:
Profile / Template: 16502
Prelog / Bottle Ord. ID: EZ 3181012

Preservation non-conformance identified for sample.

Additional Instructions from Pace®:
Ba,Be,Cr,Pb,Sb,As,Co,Mo,Cd,Li,Hg,Se,Tl

Collected By: (Printed Name) Jason R. Franks

Signature: Jason R. Franks

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)	On Ice:
	T298	-0.1	1.1	1.0	

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
Jason R. Franks / SCS	12/16/2024 / 16:00	Carmen June	12/16 16:18	
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 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/

Client: Evergy Kansas Central, Inc

Profile/EZ # EZ 3181012

Site: TEC BASA

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																														
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:

WO# : 60466594

PM: AS Due Date: 01/10/25

CLIENT: Evergy_Haley

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

April 02, 2025

Jake Humphrey
Evergy, Inc.
818 S Kansas Avenue
Topeka, KS 66612

RE: Project: TEC BASA RADCHEM-Revised Report
Pace Project No.: 60466614

Dear Jake Humphrey:

Enclosed are the analytical results for sample(s) received by the laboratory on December 16, 2024. 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 - Greensburg

REVISED to recalculate uncertainties using the square root of the squared sum formula.

(Greensburg, PA) - Revision #1 - This report replaces the December 31st, 2025, report. This project was revised on March 20th, 2025, to adjust the reporting profile for radiological calculations.

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

Sincerely,

Alice Spiller

Alice Spiller
alice.spiller@pacelabs.com
(913)599-5665
PM Lab Management

Enclosures

cc: Heath Horyna, Evergy, Inc.
Samantha Kaney, Haley & Aldrich
Melanie Satanek, Haley & Aldrich, Inc.
Adriana Sosa, Haley & Aldrich, Inc.
Nick Williams, Haley Aldrich

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CERTIFICATIONS

Project: TEC BASA RADCHEM-Revised Report
Pace Project No.: 60466614

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

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SAMPLE SUMMARY

Project: TEC BASA RADCHEM-Revised Report
Pace Project No.: 60466614

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60466614001	**MW-7-121624**	Water	12/16/24 10:20	12/16/24 16:18
60466614002	**MW-8-121624**	Water	12/16/24 12:25	12/16/24 16:18
60466614003	**MW-10-121624**	Water	12/16/24 11:35	12/16/24 16:18
60466614004	**TEC-BASA-DUP-121624**	Water	12/16/24 10:20	12/16/24 16:18

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SAMPLE ANALYTE COUNT

Project: TEC BASA RADCHEM-Revised Report
Pace Project No.: 60466614

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60466614001	**MW-7-121624**	EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
60466614002	**MW-8-121624**	EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
60466614003	**MW-10-121624**	EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
60466614004	**TEC-BASA-DUP-121624**	EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

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PROJECT NARRATIVE

Project: TEC BASA RADCHEM-Revised Report
Pace Project No.: 60466614

Method: **EPA 903.1**
Description: 903.1 Radium 226
Client: Evergy_Haley & Aldrich
Date: April 02, 2025

General Information:
4 samples were analyzed for EPA 903.1 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA RADCHEM-Revised Report
Pace Project No.: 60466614

Method: **EPA 904.0**
Description: 904.0 Radium 228
Client: Evergy_Haley & Aldrich
Date: April 02, 2025

General Information:
4 samples were analyzed for EPA 904.0 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA RADCHEM-Revised Report
Pace Project No.: 60466614

Method: **Total Radium Calculation**
Description: Total Radium 228+226
Client: Evergy_Haley & Aldrich
Date: April 02, 2025

General Information:
4 samples were analyzed for Total Radium Calculation by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: TEC BASA RADCHEM-Revised Report
Pace Project No.: 60466614

Sample: MW-7-121624 **Lab ID: 60466614001** Collected: 12/16/24 10:20 Received: 12/16/24 16:18 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	**0.906 ± 0.768 (1.17) C:NA T:91%**	pCi/L	12/30/24 11:26	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.510 ± 0.390 (0.772) C:76% T:87%**	pCi/L	12/30/24 12:24	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.42 ± 0.861 (1.17)**	pCi/L	03/20/25 14:44	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: TEC BASA RADCHEM-Revised Report
Pace Project No.: 60466614

Sample: MW-8-121624 **Lab ID: 60466614002** Collected: 12/16/24 12:25 Received: 12/16/24 16:18 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	**0.293 ± 0.551 (0.975) C:NA T:94%**	pCi/L	12/30/24 11:26	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.942 ± 0.486 (0.870) C:76% T:83%**	pCi/L	12/30/24 12:24	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.24 ± 0.735 (0.975)**	pCi/L	03/20/25 14:44	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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Lenexa, KS 66219
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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: TEC BASA RADCHEM-Revised Report
Pace Project No.: 60466614

Sample: MW-10-121624 **Lab ID: 60466614003** Collected: 12/16/24 11:35 Received: 12/16/24 16:18 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	**0.776 ± 0.678 (1.04) C:NA T:86%**	pCi/L	12/30/24 11:26	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**1.60 ± 0.587 (0.872) C:72% T:85%**	pCi/L	12/30/24 12:24	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**2.38 ± 0.897 (1.04)**	pCi/L	03/20/25 14:44	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: TEC BASA RADCHEM-Revised Report
Pace Project No.: 60466614

Sample: TEC-BASA-DUP-121624 **Lab ID: 60466614004** Collected: 12/16/24 10:20 Received: 12/16/24 16:18 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	**-0.134 ± 0.669 (1.35) C:NA T:90%**	pCi/L	12/30/24 11:26	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**1.19 ± 0.482 (0.757) C:79% T:82%**	pCi/L	12/30/24 12:24	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.19 ± 0.825 (1.35)**	pCi/L	03/20/25 14:44	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: TEC BASA RADCHEM-Revised Report
Pace Project No.: 60466614

QC Batch: 717103
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: 60466614001, 60466614002, 60466614003, 60466614004

METHOD BLANK: 3493499 Matrix: Water
Associated Lab Samples: 60466614001, 60466614002, 60466614003, 60466614004

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	-0.0947 ± 0.294 (0.667) C:NA T:89%	pCi/L	12/30/24 11:26	

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.

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QUALITY CONTROL - RADIOCHEMISTRY

Project: TEC BASA RADCHEM-Revised Report
Pace Project No.: 60466614

QC Batch: 717104
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: 60466614001, 60466614002, 60466614003, 60466614004

METHOD BLANK: 3493500 Matrix: Water
Associated Lab Samples: 60466614001, 60466614002, 60466614003, 60466614004

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.0259 ± 0.323 (0.751) C:75% T:83%	pCi/L	12/30/24 12:23	

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.

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QUALIFIERS

Project: TEC BASA RADCHEM-Revised Report
Pace Project No.: 60466614

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.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: TEC BASA RADCHEM-Revised Report
Pace Project No.: 60466614

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60466614001	**MW-7-121624**	EPA 903.1	717103		
60466614002	**MW-8-121624**	EPA 903.1	717103		
60466614003	**MW-10-121624**	EPA 903.1	717103		
60466614004	**TEC-BASA-DUP-121624**	EPA 903.1	717103		
60466614001	**MW-7-121624**	EPA 904.0	717104		
60466614002	**MW-8-121624**	EPA 904.0	717104		
60466614003	**MW-10-121624**	EPA 904.0	717104		
60466614004	**TEC-BASA-DUP-121624**	EPA 904.0	717104		
60466614001	**MW-7-121624**	Total Radium Calculation	734329		
60466614002	**MW-8-121624**	Total Radium Calculation	734329		
60466614003	**MW-10-121624**	Total Radium Calculation	734329		
60466614004	**TEC-BASA-DUP-121624**	Total Radium Calculation	734329		

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Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-LENE-0009_Samp	WO# : 60466614
	Revision: 2	Effective Date: 01/12/20

60466614

Client Name: Evergy KS

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: T298 **Type of Ice:** Wet Blue (None)

Cooler Temperature (°C): **As-read** 14.3 **Corr. Factor** -0.1 **Corrected** 14.2

Date and initials of person examining contents: CJ 12/17 ~~12/16~~

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#:** 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: _____

Qualtrax Document ID: 30468

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

60466614

Scan QR Code for instructions

Company Name:	Evergy Kansas Central, Inc.	Contact/Report To:	Jake Humphrey
Street Address:	818 S Kansas Avenue, Topeka, KS 66612	Phone #:	(913)634-0605
		E-Mail:	jake.humphrey@evergy.com
		Cc E-Mail:	skaney@haleyaldrich.com
Customer Project #:			
Project Name:	TEC BASA RADCHEM	Invoice To:	Tecumseh Center
		Invoice E-Mail:	evergyap@onlinecapturecenter.com
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	WSTR-2000018660
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [X] CT [ ] ET

County / State origin of sample(s): Kansas

Data Deliverables:
[ ] Level II [ ] Level III [ ] Level IV
[ ] EQUIS
[ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [ ] Yes [X] 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 [X] 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
Identify Container Preservative Type***: 2 2
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: Alice Spiller
AcctNum / Client ID:
Table #:
Profile / Template: 16502
Prelog / Bottle Ord. ID: EZ 3181013

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	Radium 226	Radium 228, combined, QC SHEETS	Sample Comment	Preservation non-conformance identified for sample.
MW-7-121624	WT	Grab	-	-	12/16/2024	1020	2	-	-	X	X		
MW-8-121624	WT	Grab	-	-	12/16/2024	1225	2	-	-	X	X		
MW-9-121624	NS	NS	-	-	NS	NS	2	-	-	-	-	NS - No Sample; Insufficient Groundwater	
MW-10-121624	WT	Grab	-	-	12/16/2024	1135	2	-	-	X	X		
TEC-BASA-DUP-121624	WT	Grab	-	-	12/16/2024	1020	2	-	-	X	X		

Additional Instructions from Pace®:

Collected By:
(Printed Name): Jason R. Franks
Signature: Jason R. Franks

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)	On Ice:
	T298	-0.1	14.3	14.2	N

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
Jason R. Franks / SCS	12/16/2024 / 16:00	Carmen June	12/16 16:18	
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 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/

Client: Evergy KS Central

Profile/EZ # EZ 3181013

Site: TEC Basa Radchem

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																														
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:

WO#: 60466614

PM: AS **Due Date: 01/16/25**

CLIENT: Evergy_Haley

Internal Transfer Chain of Custody

☐ Rush Multiplier____X

☒ Samples Pre-Logged into eCOC

State Of Origin: KS

Cert. Needed: ☒ Yes ☐ No

Workorder: 60466614 Workorder Name: TEC BASA RADCHEM

Owner Received Date: 12/16/2024 Results Requested By: 1/16/2025

Report To	Subcontract To
Alice Spiller Pace Analytical Kansas 9608 Loiret Blvd. Lenexa, KS 66219 Phone (913)599-5665	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 QC Sheets	Radium 226	Radium 228 and Combined									LAB USE ONLY
1	MW-7-121624	PS	12/16/2024 10:20	60466614001	Water	2						X	X	X									001
2	MW-8-121624	PS	12/16/2024 12:25	60466614002	Water	2						X	X	X									002
3	MW-10-121624	PS	12/16/2024 11:35	60466614003	Water	2						X	X	X									003
4	TEC-BASA-DUP-121624	PS	12/16/2024 10:20	60466614004	Water	2						X	X	X									004
5																							

Transfers	Released By	Date/Time	Received By	Date/Time
1	JA Pace	12/17/24 1100	[signature]	12/18/24 1000
2				
3				

Comments: KS sample location: 60-R01-S3A

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# : 30743214

30743214

DC#_Title: ENV-FRM-GBUR-0088 v07_Sample Cor ... Upon Receipt-Greensburg

Effective Date: 01/04/2024

WO#: 30743214

PM: MAR Due Date: 01/10/25

CLIENT: PACE_60_LEKS

Client Name: Pace - Lenexa, KS Proj

Courier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other

Tracking Number: 4033 6454 0327

Initial / Date

Examined By: EL 12/18/24

Labeled By: EL 12/18/24

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# 10D3241 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. pH<2
exceptions: VOA, coliform, TOC, O&G, Phenolics, Radon, non-aqueous matrix				
All containers meet method preservation requirements:	✓			Initial when completed: EL 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: EL Date: 12.18.24 Survey Meter SN: 2204880

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

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Test: Ra-226
Analyst: LL1
Date: 12/23/2024
Batch ID: 82913
Matrix: DW

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3493499
MB concentration:	-0.095
M/B Counting Uncertainty:	0.293
MB MDC:	0.667
MB Numerical Performance Indicator:	-0.63
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS82913	**LCSD82913**
Count Date:	12/30/2024	12/30/2024
Spike I.D.:	24-046	24-046
Spike Concentration (pCi/mL):	31.836	31.836
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.652	0.651
Target Conc. (pCi/L, g, F):	4.882	4.893
Uncertainty (Calculated):	0.229	0.230
Result (pCi/L, g, F):	5.837	4.952
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	1.248	1.115
Numerical Performance Indicator:	1.48	0.10
Percent Recovery:	119.57%	101.21%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	133%	133%
Lower % Recovery Limits:	73%	73%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS82913	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD82913	
Sample Result (pCi/L, g, F):	5.837	
Sample Result Counting Uncertainty (pCi/L, g, F):	1.248	
Sample Duplicate Result (pCi/L, g, F):	4.952	
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	1.115	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	1.037	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	16.63%	
Duplicate Status vs Numerical Indicator:	N/A	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	32%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the RL.

Comments:

CLM 12/30/24

LL 123024

Arizona DHES requires qualification for any AZ DW samples reported where the QC does not meet the recommended limits of the Manual for the Certification of Labs Analyzing Drinking Waters, 5th Edition , section 7.7 of Chapter VI.

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Test:	Ra-228
Analyst:	ZPC
Date:	12/27/2024
Worklist:	82914
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3493500
MB concentration:	0.026
M/B 2 Sigma CSU:	0.323
MB MDC:	0.751
MB Numerical Performance Indicator:	0.16
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS82914	LCSD82914
Count Date:	12/30/2024	12/30/2024
Spike I.D.:	23-043	23-043
Decay Corrected Spike Concentration (pCi/mL):	34.071	34.071
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.817	0.816
Target Conc. (pCi/L, g, F):	4.172	4.178
Uncertainty (Calculated):	0.204	0.205
Result (pCi/L, g, F):	4.446	3.434
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	1.101	0.890
Numerical Performance Indicator:	0.48	-1.60
Percent Recovery:	106.58%	82.20%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS82914	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD82914	
Sample Result (pCi/L, g, F):	4.446	
Sample Result 2 Sigma CSU (pCi/L, g, F):	1.101	
Sample Duplicate Result (pCi/L, g, F):	3.434	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.890	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	1.401	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	25.83%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	36%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

12/31/24

ATTACHMENT 2-2
March 2025 Semiannual Sampling Event Laboratory Analytical Report

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

April 14, 2025

Jake Humphrey
Evergy, Inc.
818 S Kansas Avenue
Topeka, KS 66612

RE: Project: TEC BASA RADCHEM
Pace Project No.: 60471151

Dear Jake Humphrey:

Enclosed are the analytical results for sample(s) received by the laboratory on March 14, 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 - Greensburg

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

Sincerely,

Alice Spiller

Alice Spiller
alice.spiller@pacelabs.com
(913)599-5665
PM Lab Management

Enclosures

cc: Samantha Kaney, Haley & Aldrich
Melanie Satanek, Haley & Aldrich, Inc.
Adriana Sosa, Haley & Aldrich, Inc.
Nick Williams, Haley Aldrich

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CERTIFICATIONS

Project: TEC BASA RADCHEM
Pace Project No.: 60471151

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

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SAMPLE SUMMARY

Project: TEC BASA RADCHEM
Pace Project No.: 60471151

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60471151001	**MW-7-031325**	Water	03/13/25 14:05	03/14/25 18:05
60471151002	**MW-8-031225**	Water	03/12/25 15:40	03/14/25 18:05
60471151003	**MW-10-031225**	Water	03/12/25 12:05	03/14/25 18:05
60471151004	**TEC-BASA-DUP-091124**	Water	03/13/25 14:05	03/14/25 18:05

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SAMPLE ANALYTE COUNT

Project: TEC BASA RADCHEM
Pace Project No.: 60471151

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60471151001	**MW-7-031325**	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
60471151002	**MW-8-031225**	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
60471151003	**MW-10-031225**	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
60471151004	**TEC-BASA-DUP-091124**	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

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PROJECT NARRATIVE

Project: TEC BASA RADCHEM
Pace Project No.: 60471151

Method: **EPA 903.1**
Description: 903.1 Radium 226
Client: Evergy_Haley & Aldrich
Date: April 14, 2025

General Information:
4 samples were analyzed for EPA 903.1 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA RADCHEM
Pace Project No.: 60471151

Method: **EPA 904.0**
Description: 904.0 Radium 228
Client: Evergy_Haley & Aldrich
Date: April 14, 2025

General Information:
4 samples were analyzed for EPA 904.0 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA RADCHEM
Pace Project No.: 60471151

Method: **Total Radium Calculation**
Description: Total Radium 228+226
Client: Evergy_Haley & Aldrich
Date: April 14, 2025

General Information:
4 samples were analyzed for Total Radium Calculation by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: TEC BASA RADCHEM
Pace Project No.: 60471151

Sample: MW-7-031325 **Lab ID: 60471151001** Collected: 03/13/25 14:05 Received: 03/14/25 18:05 Matrix: Water
PWS: Site ID: Sample Type:

Comments: • The sampler's name and signature were not listed on the COC.

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.177 ± 0.458 (0.830) C:NA T:97%**	pCi/L	04/08/25 13:23	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.756 ± 0.449 (0.842) C:75% T:90%**	pCi/L	04/07/25 12:39	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.933 ± 0.641 (0.842)**	pCi/L	04/08/25 16:22	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: TEC BASA RADCHEM
Pace Project No.: 60471151

Sample: MW-8-031225 **Lab ID: 60471151002** Collected: 03/12/25 15:40 Received: 03/14/25 18:05 Matrix: Water
PWS: Site ID: Sample Type:

Comments: • The sampler's name and signature were not listed on the COC.

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**-0.347 ± 0.512 (1.07) C:NA T:92%**	pCi/L	04/08/25 13:23	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.832 ± 0.472 (0.876) C:74% T:92%**	pCi/L	04/07/25 12:40	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.832 ± 0.696 (1.07)**	pCi/L	04/08/25 16:22	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: TEC BASA RADCHEM
Pace Project No.: 60471151

Sample: MW-10-031225 **Lab ID: 60471151003** Collected: 03/12/25 12:05 Received: 03/14/25 18:05 Matrix: Water
PWS: Site ID: Sample Type:

Comments: • The sampler's name and signature were not listed on the COC.

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.203 ± 0.484 (0.865) C:NA T:96%**	pCi/L	04/08/25 13:23	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**2.28 ± 0.736 (1.02) C:73% T:85%**	pCi/L	04/07/25 12:40	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**2.48 ± 0.881 (1.02)**	pCi/L	04/08/25 16:22	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: TEC BASA RADCHEM
Pace Project No.: 60471151

Sample: TEC-BASA-DUP-091124 **Lab ID: 60471151004** Collected: 03/13/25 14:05 Received: 03/14/25 18:05 Matrix: Water
PWS: Site ID: Sample Type:

Comments: • The sampler's name and signature were not listed on the COC.

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.151 ± 0.583 (1.07) C:NA T:80%**	pCi/L	04/08/25 13:23	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.787 ± 0.455 (0.850) C:75% T:90%**	pCi/L	04/07/25 12:40	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.938 ± 0.740 (1.07)**	pCi/L	04/08/25 16:22	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: TEC BASA RADCHEM
Pace Project No.: 60471151

QC Batch: 733965
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: 60471151001, 60471151002, 60471151003, 60471151004

METHOD BLANK: 3572717 Matrix: Water
Associated Lab Samples: 60471151001, 60471151002, 60471151003, 60471151004

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.627 ± 0.350 (0.620) C:74% T:90%	pCi/L	04/07/25 12:38	

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

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QUALITY CONTROL - RADIOCHEMISTRY

Project: TEC BASA RADCHEM
Pace Project No.: 60471151

QC Batch: 733964
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: 60471151001, 60471151002, 60471151003, 60471151004

METHOD BLANK: 3572716 Matrix: Water
Associated Lab Samples: 60471151001, 60471151002, 60471151003, 60471151004

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0687 ± 0.233 (0.450) C:NA T:93%	pCi/L	04/08/25 13:17	

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

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QUALIFIERS

Project: TEC BASA RADCHEM
Pace Project No.: 60471151

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.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: TEC BASA RADCHEM
Pace Project No.: 60471151

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60471151001	**MW-7-031325**	EPA 903.1	733964		
60471151002	**MW-8-031225**	EPA 903.1	733964		
60471151003	**MW-10-031225**	EPA 903.1	733964		
60471151004	**TEC-BASA-DUP-091124**	EPA 903.1	733964		
60471151001	**MW-7-031325**	EPA 904.0	733965		
60471151002	**MW-8-031225**	EPA 904.0	733965		
60471151003	**MW-10-031225**	EPA 904.0	733965		
60471151004	**TEC-BASA-DUP-091124**	EPA 904.0	733965		
60471151001	**MW-7-031325**	Total Radium Calculation	738206		
60471151002	**MW-8-031225**	Total Radium Calculation	738206		
60471151003	**MW-10-031225**	Total Radium Calculation	738206		
60471151004	**TEC-BASA-DUP-091124**	Total Radium Calculation	738206		

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Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-LENE-0009_Sampl	
	Revision: 2	Effective Date: 01/12/202

WO#: 60471151

60471151

Client Name: EVERGY

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: T39 **Type of Ice:** (Wet) Blue None

Cooler Temperature (°C): **As-read** 22.5 **Corr. Factor** _____ **Corrected** 22.6

Date and initials of person examining contents: MM 3/15/25

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#:** 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® 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

60471151

Scan QR Code for instructions

Company Name:	Evergy Kansas Central, Inc.	Contact/Report To:	Jake Humphrey
Street Address:	818 S Kansas Avenue, Topeka, KS 66612	Phone #:	(913)634-0605
		E-Mail:	jake.humphrey@evergy.com
		Cc E-Mail:	skaney@haleyaldrich.com
Customer Project #:			
Project Name:	TEC BASA RADCHEM	Invoice To:	Tecumseh Center
		Invoice E-Mail:	evergyap@onlinecapturecenter.com
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	WSTR-2000094802
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [X] CT [ ] ET

County / State origin of sample(s): Kansas

Data Deliverables:
[ ] Level II [ ] Level III [ ] Level IV
[ ] EQUIS
[ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [ ] Yes [X] 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 [X] 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	Radium 226	Radium 228+combined+QC Sheets	Sample Comment
MW-7-031325	WT	Grab	-	-	3/13/2025	1405	2	-	-	X	X	
MW-8-031225	WT	Grab	-	-	3/12/2025	1540	2	-	-	X	X	
MW-9-031325	NS	NS	-	-	NS	NS	NS	-	-	-	-	NS - No Sample; Insufficient Groundwater
MW-10-031225	WT	Grab	-	-	3/12/2025	1205	2	-	-	X	X	
TEC-BASA-DUP-091124	WT	Grab	-	-	3/13/2025	1405	2	-	-	X	X	

Specify Container Size **: 1 1
Identify Container Preservative Type***: 2 2
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: Alice Spiller
AcctNum / Client ID:
Table #:
Profile / Template: 16502
Prelog / Bottle Ord. ID: EZ 3230171

Preservation non-conformance identified for sample.

Additional Instructions from Pace®:
Profile 16502, line 7

Collected By:
(Printed Name) Jason R. Franks
Signature: Jason R. Franks

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)	On Ice:
			22.5	22.6	

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Jason R. Franks / SCS	03/14/2025 / 17:00		3-14 1805

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 ©

DC#_Title: ENV-FRM-LENE-0001 v07_Sample Container Count
Effective Date: 7/12/2024

Client: Evergy Profile/EZ # ez 3230171

Site: TEC BASA Radchem 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																					22										
2	|																														
3	|	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	|																				22										
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#:60471151

PM: AS Due Date: 04/14/25

CLIENT: Evergy_Haley

Internal Transfer Chain of Custody

Pace

☐ Rush Multiplier____X

☒ Samples Pre-Logged into eCOC

State Of Origin: KS

Cert. Needed: ☒ Yes ☐ No

Workorder: 60471151 **Workorder Name:** TEC BASA RADCHEM

Owner Received Date: 3/14/2025 **Results Requested By:** 4/14/2025

Report To	Subcontract To
Alice Spiller Pace Analytical Kansas 9608 Loiret Blvd. Lenexa, KS 66219 Phone (913)599-5665	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 QC Sheets	Radium 226	Radium 228 and Combined										LAB USE ONLY
1	MW-7-031325	PS	3/13/2025 14:05	60471151001	Water	2						X	X	X										001
2	MW-8-031225	PS	3/12/2025 15:40	60471151002	Water	2						X	X	X										002
3	MW-10-031225	PS	3/12/2025 12:05	60471151003	Water	2						X	X	X										003
4	TEC-BASA-DUP-091124	PS	3/13/2025 14:05	60471151004	Water	2						X	X	X										004
5																								

Transfers	Released By	Date/Time	Received By	Date/Time
1			[signature]	3/18/25 1000
2				
3				

Comments

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# : 30764205

30764205

DC#_Title: ENV-FRM-GBUR-0088 v07_Sample Greensburg

Effective Date: 01/04/2024

WO# : 30764205

PM: CMC Due Date: 03/28/25

CLIENT: PACE_60_LEKS

Client Name: Pace Analytical Kansas JM 3/18/25

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace ☐ Other

Tracking Number: 4033 6457 4400

Initial / Date	
Examined By:	ML 3/18/25
Labeled By:	ML 3/18/25
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

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: exceptions: VOA, coliform, TOC, O&G, Phenolics, Radon, non-aqueous matrix	✓			16. pH<2
All containers meet method preservation requirements:	✓			Initial when completed JM 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: BE Date: 3.18.25 Survey Meter SN: 2501380

pH paper Lot# 10013241 **D.P.D. Residual Chlorine Lot #**

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

Quality Control Sample Performance Assessment

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test:	Ra-226
Analyst:	CLM
Date:	3/20/2025
Batch ID:	84143
Matrix:	wt

Method Blank Assessment	
MB Sample ID	3572716
MB concentration:	0.069
M/B 2 Sigma CSU:	0.233
MB MDC:	0.450
MB Numerical Performance Indicator:	0.58
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	N/A

Laboratory Control Sample Assessment	LCSD (Y or N)?	y
	LCS84143	**LCSD84143**
Count Date:	4/8/2025	4/8/2025
Spike I.D.:	24-046	24-046
Spike Concentration (pCi/mL):	31.832	31.832
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.655	0.654
Target Conc. (pCi/L, g, F):	4.861	4.868
Uncertainty (Calculated):	0.228	0.229
Result (pCi/L, g, F):	4.730	4.008
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	1.102	0.946
Numerical Performance Indicator:	-0.23	-1.73
Percent Recovery:	97.30%	82.34%
Status vs Numerical Indicator:	Pass	Pass
Status vs Recovery:	N/A	N/A
Upper % Recovery Limits:	133%	133%
Lower % Recovery Limits:	73%	73%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS84143	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD84143	
Sample Result (pCi/L, g, F):	4.730	
Sample Result 2 Sigma CSU (pCi/L, g, F):	1.102	
Sample Duplicate Result (pCi/L, g, F):	4.008	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.946	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	0.974	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	16.65%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	N/A	
% RPD Limit:	32%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the RL.

Comments:

CLM 4/8/25

SLC 4/8/25

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Test:	Ra-228
Analyst:	ZPC
Date:	4/1/2025
Worklist:	84144
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3572717
MB concentration:	0.627
M/B 2 Sigma CSU:	0.350
MB MDC:	0.620
MB Numerical Performance Indicator:	3.51
MB Status vs Numerical Indicator:	Fail*
MB Status vs. MDC:	See Comment*

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS84144	LCSD84144
Count Date:	4/7/2025	4/7/2025
Spike I.D.:	23-043	23-043
Decay Corrected Spike Concentration (pCi/mL):	32.986	32.986
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.818	0.817
Target Conc. (pCi/L, g, F):	4.031	4.036
Uncertainty (Calculated):	0.198	0.198
Result (pCi/L, g, F):	3.684	4.130
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.853	0.945
Numerical Performance Indicator:	-0.78	0.19
Percent Recovery:	91.40%	102.32%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS84144	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD84144	
Sample Result (pCi/L, g, F):	3.684	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.853	
Sample Duplicate Result (pCi/L, g, F):	4.130	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.945	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	-0.686	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	11.28%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	36%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:
*The method blank result is below the reporting limit for this analysis and is acceptable.

VAL
4/8/25

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

April 11, 2025

Jake Humphrey
Evergy, Inc.
818 S Kansas Avenue
Topeka, KS 66612

RE: Project: TEC BASA Additional
Pace Project No.: 60471155

Dear Jake Humphrey:

Enclosed are the analytical results for sample(s) received by the laboratory on March 14, 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 National - Mt. Juliet
- Pace Analytical Services - Kansas City

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

Sincerely,

Alice Spiller

Alice Spiller
alice.spiller@pacelabs.com
(913)599-5665
PM Lab Management

Enclosures

cc: Samantha Kaney, Haley & Aldrich
Melanie Satanek, Haley & Aldrich, Inc.
Adriana Sosa, Haley & Aldrich, Inc.
Nick Williams, Haley Aldrich

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

CERTIFICATIONS

Project: TEC BASA Additional
Pace Project No.: 60471155

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

Pace Analytical Services National

12065 Lebanon Road, Mt. Juliet, TN 37122
Alabama Certification #: 40660
Alaska Certification 17-026
Arizona Certification #: AZ0612
Arkansas Certification #: 88-0469
California Certification #: 2932
Canada Certification #: 1461.01
Colorado Certification #: TN00003
Connecticut Certification #: PH-0197
DOD Certification: #1461.01
EPA# TN00003
Florida Certification #: E87487
Georgia DW Certification #: 923
Georgia Certification: NELAP
Idaho Certification #: TN00003
Illinois Certification #: 200008
Indiana Certification #: C-TN-01
Iowa Certification #: 364
Kansas Certification #: E-10277
Kentucky UST Certification #: 16
Kentucky Certification #: 90010
Louisiana Certification #: AI30792
Louisiana DW Certification #: LA180010
Maine Certification #: TN0002
Maryland Certification #: 324
Massachusetts Certification #: M-TN003
Michigan Certification #: 9958
Minnesota Certification #: 047-999-395
Mississippi Certification #: TN00003
Missouri Certification #: 340
Montana Certification #: CERT0086
Nebraska Certification #: NE-OS-15-05
Nevada Certification #: TN-03-2002-34
New Hampshire Certification #: 2975
New Jersey Certification #: TN002
New Mexico DW Certification
New York Certification #: 11742
North Carolina Aquatic Toxicity Certification #: 41
North Carolina Drinking Water Certification #: 21704
North Carolina Environmental Certificate #: 375
North Dakota Certification #: R-140
Ohio VAP Certification #: CL0069
Oklahoma Certification #: 9915
Oregon Certification #: TN200002
Pennsylvania Certification #: 68-02979
Rhode Island Certification #: LAO00356
South Carolina Certification #: 84004
South Dakota Certification
Tennessee DW/Chem/Micro Certification #: 2006
Texas Certification #: T 104704245-17-14
Texas Mold Certification #: LAB0152
USDA Soil Permit #: P330-15-00234
Utah Certification #: TN00003
Vermont Dept. of Health: ID# VT-2006
Virginia Certification #: VT2006
Virginia Certification #: 460132
Washington Certification #: C847
West Virginia Certification #: 233
Wisconsin Certification #: 998093910
Wyoming UST Certification #: via A2LA 2926.01
A2LA-ISO 17025 Certification #: 1461.01
A2LA-ISO 17025 Certification #: 1461.02
AIHA-LAP/LLC EMLAP Certification #:100789

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SAMPLE SUMMARY

Project: TEC BASA Additional
Pace Project No.: 60471155

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60471155001	**MW-7-031325**	Water	03/13/25 14:05	03/14/25 18:05
60471155002	**MW-8-031225**	Water	03/12/25 15:40	03/14/25 18:05
60471155003	**MW-10-031225**	Water	03/12/25 12:05	03/14/25 18:05
60471155004	**TEC-BASA-DUP-091124**	Water	03/13/25 14:05	03/14/25 18:05

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SAMPLE ANALYTE COUNT

Project: TEC BASA Additional
Pace Project No.: 60471155

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60471155001	**MW-7-031325**	EPA 200.7	ARMN	4	PASI-K
		EPA 200.7	ARMN	1	PASI-K
		EPA 200.8	JGP	3	PASI-K
		EPA 200.8	JGP	5	PASI-K
		SM 2320B	ARD	1	PAN
		EPA 353.2	CAT	1	PAN
		EPA 365.4	AEC	1	PAN
		SM 3500-Fe B#4	DLJ	1	PASI-K
		SM 4500-S-2 D	DLJ	1	PASI-K
		SM 5310C	BMT	1	PASI-K
		SM 5310C	BMT	1	PASI-K
60471155002	**MW-8-031225**	EPA 200.7	ARMN	4	PASI-K
		EPA 200.7	ARMN	1	PASI-K
		EPA 200.8	JGP	3	PASI-K
		EPA 200.8	JGP	5	PASI-K
		SM 2320B	ARD	1	PAN
		EPA 353.2	CAT	1	PAN
		EPA 365.4	AEC	1	PAN
		SM 3500-Fe B#4	DLJ	1	PASI-K
		SM 4500-S-2 D	DLJ	1	PASI-K
		SM 5310C	BMT	1	PASI-K
		SM 5310C	BMT	1	PASI-K
60471155003	**MW-10-031225**	EPA 200.7	ARMN	4	PASI-K
		EPA 200.7	ARMN	1	PASI-K
		EPA 200.8	JGP	3	PASI-K
		EPA 200.8	JGP	5	PASI-K
		SM 2320B	ARD	1	PAN
		EPA 353.2	CAT	1	PAN
		EPA 365.4	AEC	1	PAN
		SM 3500-Fe B#4	DLJ	1	PASI-K
		SM 4500-S-2 D	DLJ	1	PASI-K
		SM 5310C	BMT	1	PASI-K
		SM 5310C	BMT	1	PASI-K
60471155004	**TEC-BASA-DUP-091124**	EPA 200.7	ARMN	4	PASI-K
		EPA 200.7	ARMN	1	PASI-K
		EPA 200.8	JGP	3	PASI-K
		EPA 200.8	JGP	5	PASI-K

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SAMPLE ANALYTE COUNT

Project: TEC BASA Additional
Pace Project No.: 60471155

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 2320B	ARD	1	PAN
		EPA 353.2	CAT	1	PAN
		EPA 365.4	AEC	1	PAN
		SM 3500-Fe B#4	DLJ	1	PASI-K
		SM 4500-S-2 D	DLJ	1	PASI-K
		SM 5310C	BMT	1	PASI-K
		SM 5310C	BMT	1	PASI-K

PAN = Pace National - Mt. Juliet
PASI-K = Pace Analytical Services - Kansas City

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PROJECT NARRATIVE

Project: TEC BASA Additional
Pace Project No.: 60471155

Date: April 11, 2025

MW-7-031325 (Lab ID: 60471155001)

- Wet Chemistry by Method 2320 B-2011 - Endpoint pH 4.5 Headspace

MW-8-031225 (Lab ID: 60471155002)

- Wet Chemistry by Method 2320 B-2011 - Endpoint pH 4.5 Headspace

MW-10-031225 (Lab ID: 60471155003)

- Wet Chemistry by Method 2320 B-2011 - Endpoint pH 4.5 Headspace

TEC-BASA-DUP-091124 (Lab ID: 60471155004)

- Wet Chemistry by Method 2320 B-2011 - Endpoint pH 4.5 Headspace

LCS (Lab ID: R4191852-1)

- Wet Chemistry by Method 2320 B-2011 - Endpoint pH 4.5

BLANK (Lab ID: R4191852-2)

- Wet Chemistry by Method 2320 B-2011 - Endpoint pH 4.5

DUP (Lab ID: R4191852-3)

- Wet Chemistry by Method 2320 B-2011 - Endpoint pH 4.5

DUP (Lab ID: R4191852-4)

- Wet Chemistry by Method 2320 B-2011 - Endpoint pH 4.5

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PROJECT NARRATIVE

Project: TEC BASA Additional
Pace Project No.: 60471155

Method: **EPA 200.7**
Description: 200.7 Metals, Total
Client: Evergy_Haley & Aldrich
Date: April 11, 2025

General Information:
4 samples were analyzed for EPA 200.7 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 200.7 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 928167

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60471043003,60471152001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MSD (Lab ID: 3676270)
  - Sodium

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: TEC BASA Additional
Pace Project No.: 60471155

Method: **EPA 200.7**
Description: 200.7 Metals, Dissolved
Client: Evergy_Haley & Aldrich
Date: April 11, 2025

General Information:
4 samples were analyzed for EPA 200.7 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 200.7 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA Additional
Pace Project No.: 60471155

Method: **EPA 200.8**
Description: 200.8 MET ICPMS
Client: Evergy_Haley & Aldrich
Date: April 11, 2025

General Information:
4 samples were analyzed for EPA 200.8 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 200.8 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 928316

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60471155001,60471174005

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 3676847)
  - Aluminum
  - Iron
- MS (Lab ID: 3676849)
  - Manganese
- MSD (Lab ID: 3676848)
  - Aluminum
  - Iron

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA Additional
Pace Project No.: 60471155

Method: **EPA 200.8**
Description: 200.8 MET ICPMS, Dissolved
Client: Evergy_Haley & Aldrich
Date: April 11, 2025

General Information:
4 samples were analyzed for EPA 200.8 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 200.8 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA Additional
Pace Project No.: 60471155

Method: **SM 2320B**
Description: Wet Chemistry 2320 B-2011
Client: Evergy_Haley & Aldrich
Date: April 11, 2025

General Information:
4 samples were analyzed for SM 2320B by Pace National Mt. Juliet. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

H3: Sample was received or analysis requested beyond the recognized method holding time.
- MW-10-031225 (Lab ID: 60471155003)
- MW-8-031225 (Lab ID: 60471155002)

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA Additional
Pace Project No.: 60471155

Method: **EPA 353.2**
Description: Wet Chemistry 353.2
Client: Evergy_Haley & Aldrich
Date: April 11, 2025

General Information:
4 samples were analyzed for EPA 353.2 by Pace National Mt. Juliet. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA Additional
Pace Project No.: 60471155

Method: **EPA 365.4**
Description: Wet Chemistry 365.4
Client: Evergy_Haley & Aldrich
Date: April 11, 2025

General Information:
4 samples were analyzed for EPA 365.4 by Pace National Mt. Juliet. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA Additional
Pace Project No.: 60471155

Method: **SM 3500-Fe B#4**
Description: Iron, Ferrous
Client: Evergy_Haley & Aldrich
Date: April 11, 2025

General Information:
4 samples were analyzed for SM 3500-Fe B#4 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

H6: Analysis initiated outside of the 15 minute EPA required holding time.
- MW-10-031225 (Lab ID: 60471155003)
- MW-7-031325 (Lab ID: 60471155001)
- MW-8-031225 (Lab ID: 60471155002)
- TEC-BASA-DUP-091124 (Lab ID: 60471155004)

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA Additional
Pace Project No.: 60471155

Method: **SM 4500-S-2 D**
Description: 4500S2D Sulfide, Total
Client: Evergy_Haley & Aldrich
Date: April 11, 2025

General Information:
4 samples were analyzed for SM 4500-S-2 D by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 928087

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60470739002

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 3676019)
  - Sulfide, Total
- MSD (Lab ID: 3676020)
  - Sulfide, Total

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA Additional
Pace Project No.: 60471155

Method: **SM 5310C**
Description: 5310C TOC
Client: Evergy_Haley & Aldrich
Date: April 11, 2025

General Information:
4 samples were analyzed for SM 5310C by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA Additional
Pace Project No.: 60471155

Method: **SM 5310C**
Description: 5310C Dissolved Organic Carbon
Client: Evergy_Haley & Aldrich
Date: April 11, 2025

General Information:
4 samples were analyzed for SM 5310C by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: TEC BASA Additional
Pace Project No.: 60471155

Sample: MW-7-031325 **Lab ID: 60471155001** Collected: 03/13/25 14:05 Received: 03/14/25 18:05 Matrix: Water

Parameters	Results	Units	Report Limit	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							
Magnesium, Total Recoverable	**24.3**	mg/L	0.050	1	03/18/25 14:48	03/24/25 18:02	7439-95-4	
Potassium, Total Recoverable	**4.5**	mg/L	0.50	1	03/18/25 14:48	03/24/25 18:02	7440-09-7	
Sodium, Total Recoverable	**188**	mg/L	0.50	1	03/18/25 14:48	03/24/25 18:02	7440-23-5	
Total Hardness by 2340B, Total Recoverable	**441**	mg/L	0.50	1	03/18/25 14:48	03/24/25 18:02		
200.7 Metals, Dissolved	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City							
Magnesium, Dissolved	**23.9**	mg/L	0.050	1	03/18/25 09:30	03/28/25 15:20	7439-95-4	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City							
Aluminum, Total Recoverable	**4.5**	mg/L	0.050	1	03/18/25 12:45	03/20/25 15:42	7429-90-5	M1
Iron, Total Recoverable	**5.3**	mg/L	0.050	1	03/18/25 12:45	03/20/25 15:42	7439-89-6	M1
Manganese, Total Recoverable	**0.69**	mg/L	0.0010	1	03/18/25 12:45	03/20/25 15:42	7439-96-5	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City							
Aluminum, Dissolved	**0.12**	mg/L	0.050	1	03/18/25 09:30	03/21/25 14:09	7429-90-5	
Arsenic, Dissolved	**0.0013**	mg/L	0.0010	1	03/18/25 09:30	03/21/25 14:09	7440-38-2	
Cobalt, Dissolved	**0.0012**	mg/L	0.0010	1	03/18/25 09:30	03/21/25 14:09	7440-48-4	
Iron, Dissolved	**0.16**	mg/L	0.050	1	03/18/25 09:30	03/21/25 14:09	7439-89-6	
Manganese, Dissolved	**0.38**	mg/L	0.0010	1	03/18/25 09:30	03/21/25 14:09	7439-96-5	
Wet Chemistry 2320 B-2011	Analytical Method: SM 2320B Preparation Method: 2320 B-2011 Pace National - Mt. Juliet							
Alkalinity, Total as CaCO3	**423**	mg/L	20.0	1	03/27/25 13:47	03/27/25 13:47		
Wet Chemistry 353.2	Analytical Method: EPA 353.2 Preparation Method: 353.2 Pace National - Mt. Juliet							
Nitrate-Nitrite (as N)	**<0.200**	mg/L	0.200	1	03/21/25 02:23	03/21/25 02:23	7727-37-9	
Wet Chemistry 365.4	Analytical Method: EPA 365.4 Preparation Method: 351.2/365.4 Pace National - Mt. Juliet							
Phosphorus	**0.633**	mg/L	0.100	1	03/24/25 20:51	03/24/25 22:32	7723-14-0	
Iron, Ferrous	Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City							
Iron, Ferrous	**2.0**	mg/L	0.20	1		03/19/25 13:01	15438-31-0	H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D Pace Analytical Services - Kansas City							
Sulfide, Total	**0.12**	mg/L	0.050	1		03/17/25 13:57	18496-25-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TEC BASA Additional
Pace Project No.: 60471155

Sample: MW-7-031325 **Lab ID: 60471155001** Collected: 03/13/25 14:05 Received: 03/14/25 18:05 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
5310C TOC	Analytical Method: SM 5310C Pace Analytical Services - Kansas City							
Total Organic Carbon	**1.1**	mg/L	1.0	1		04/03/25 13:51	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C Pace Analytical Services - Kansas City							
Dissolved Organic Carbon	**<1.0**	mg/L	1.0	1		04/03/25 05:45		

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ANALYTICAL RESULTS

Project: TEC BASA Additional
Pace Project No.: 60471155

Sample: MW-8-031225 **Lab ID: 60471155002** Collected: 03/12/25 15:40 Received: 03/14/25 18:05 Matrix: Water

Parameters	Results	Units	Report Limit	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							
Magnesium, Total Recoverable	**14.0**	mg/L	0.050	1	03/18/25 14:48	03/24/25 18:04	7439-95-4	
Potassium, Total Recoverable	**11.6**	mg/L	0.50	1	03/18/25 14:48	03/24/25 18:04	7440-09-7	
Sodium, Total Recoverable	**169**	mg/L	0.50	1	03/18/25 14:48	03/24/25 18:04	7440-23-5	
Total Hardness by 2340B, Total Recoverable	**519**	mg/L	0.50	1	03/18/25 14:48	03/24/25 18:04		
200.7 Metals, Dissolved	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City							
Magnesium, Dissolved	**14.2**	mg/L	0.050	1	03/18/25 09:30	03/28/25 15:22	7439-95-4	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City							
Aluminum, Total Recoverable	**1.0**	mg/L	0.050	1	03/18/25 12:45	03/20/25 15:57	7429-90-5	
Iron, Total Recoverable	**1.2**	mg/L	0.050	1	03/18/25 12:45	03/20/25 15:57	7439-89-6	
Manganese, Total Recoverable	**0.55**	mg/L	0.0010	1	03/18/25 12:45	03/20/25 15:57	7439-96-5	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City							
Aluminum, Dissolved	**<0.050**	mg/L	0.050	1	03/18/25 09:30	03/21/25 14:12	7429-90-5	
Arsenic, Dissolved	**<0.0010**	mg/L	0.0010	1	03/18/25 09:30	03/21/25 14:12	7440-38-2	
Cobalt, Dissolved	**<0.0010**	mg/L	0.0010	1	03/18/25 09:30	03/21/25 14:12	7440-48-4	
Iron, Dissolved	**<0.050**	mg/L	0.050	1	03/18/25 09:30	03/21/25 14:12	7439-89-6	
Manganese, Dissolved	**0.61**	mg/L	0.0010	1	03/18/25 09:30	03/21/25 14:12	7439-96-5	D9
Wet Chemistry 2320 B-2011	Analytical Method: SM 2320B Preparation Method: 2320 B-2011 Pace National - Mt. Juliet							
Alkalinity, Total as CaCO3	**23.3**	mg/L	20.0	1	03/27/25 13:53	03/27/25 13:53		H3
Wet Chemistry 353.2	Analytical Method: EPA 353.2 Preparation Method: 353.2 Pace National - Mt. Juliet							
Nitrate-Nitrite (as N)	**2.01**	mg/L	0.200	1	03/21/25 02:25	03/21/25 02:25	7727-37-9	
Wet Chemistry 365.4	Analytical Method: EPA 365.4 Preparation Method: 351.2/365.4 Pace National - Mt. Juliet							
Phosphorus	**0.330**	mg/L	0.100	1	03/24/25 20:51	03/24/25 22:33	7723-14-0	
Iron, Ferrous	Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City							
Iron, Ferrous	**0.35**	mg/L	0.20	1		03/19/25 13:01	15438-31-0	H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D Pace Analytical Services - Kansas City							
Sulfide, Total	**<0.050**	mg/L	0.050	1		03/17/25 13:57	18496-25-8	

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ANALYTICAL RESULTS

Project: TEC BASA Additional
Pace Project No.: 60471155

Sample: MW-8-031225 **Lab ID: 60471155002** Collected: 03/12/25 15:40 Received: 03/14/25 18:05 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
5310C TOC	Analytical Method: SM 5310C Pace Analytical Services - Kansas City							
Total Organic Carbon	**<1.0**	mg/L	1.0	1		04/03/25 14:11	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C Pace Analytical Services - Kansas City							
Dissolved Organic Carbon	**<1.0**	mg/L	1.0	1		04/03/25 06:26		

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ANALYTICAL RESULTS

Project: TEC BASA Additional
Pace Project No.: 60471155

Sample: MW-10-031225 **Lab ID: 60471155003** Collected: 03/12/25 12:05 Received: 03/14/25 18:05 Matrix: Water

Parameters	Results	Units	Report Limit	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							
Magnesium, Total Recoverable	**13.3**	mg/L	0.050	1	03/18/25 14:48	03/24/25 18:06	7439-95-4	
Potassium, Total Recoverable	**16.7**	mg/L	0.50	1	03/18/25 14:48	03/24/25 18:06	7440-09-7	
Sodium, Total Recoverable	**49.0**	mg/L	0.50	1	03/18/25 14:48	03/24/25 18:06	7440-23-5	
Total Hardness by 2340B, Total Recoverable	**160**	mg/L	0.50	1	03/18/25 14:48	03/24/25 18:06		
200.7 Metals, Dissolved	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City							
Magnesium, Dissolved	**31.0**	mg/L	0.050	1	03/18/25 09:30	03/28/25 15:24	7439-95-4	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City							
Aluminum, Total Recoverable	**0.35**	mg/L	0.050	1	03/18/25 12:45	03/20/25 16:00	7429-90-5	
Iron, Total Recoverable	**2.2**	mg/L	0.050	1	03/18/25 12:45	03/20/25 16:00	7439-89-6	
Manganese, Total Recoverable	**4.4**	mg/L	0.0010	1	03/18/25 12:45	03/20/25 16:00	7439-96-5	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City							
Aluminum, Dissolved	**<0.050**	mg/L	0.050	1	03/18/25 09:30	03/21/25 14:14	7429-90-5	
Arsenic, Dissolved	**0.0030**	mg/L	0.0010	1	03/18/25 09:30	03/21/25 14:14	7440-38-2	
Cobalt, Dissolved	**0.0084**	mg/L	0.0010	1	03/18/25 09:30	03/21/25 14:14	7440-48-4	
Iron, Dissolved	**0.51**	mg/L	0.050	1	03/18/25 09:30	03/21/25 14:14	7439-89-6	
Manganese, Dissolved	**4.0**	mg/L	0.0010	1	03/18/25 09:30	03/21/25 14:14	7439-96-5	
Wet Chemistry 2320 B-2011	Analytical Method: SM 2320B Preparation Method: 2320 B-2011 Pace National - Mt. Juliet							
Alkalinity, Total as CaCO3	**371**	mg/L	20.0	1	03/27/25 13:57	03/27/25 13:57		H3
Wet Chemistry 353.2	Analytical Method: EPA 353.2 Preparation Method: 353.2 Pace National - Mt. Juliet							
Nitrate-Nitrite (as N)	**<0.200**	mg/L	0.200	1	03/21/25 02:28	03/21/25 02:28	7727-37-9	
Wet Chemistry 365.4	Analytical Method: EPA 365.4 Preparation Method: 351.2/365.4 Pace National - Mt. Juliet							
Phosphorus	**0.227**	mg/L	0.100	1	03/24/25 20:51	03/24/25 22:37	7723-14-0	
Iron, Ferrous	Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City							
Iron, Ferrous	**2.5**	mg/L	0.20	1		03/19/25 13:01	15438-31-0	H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D Pace Analytical Services - Kansas City							
Sulfide, Total	**<0.050**	mg/L	0.050	1		03/17/25 13:57	18496-25-8	

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ANALYTICAL RESULTS

Project: TEC BASA Additional
Pace Project No.: 60471155

Sample: MW-10-031225 **Lab ID: 60471155003** Collected: 03/12/25 12:05 Received: 03/14/25 18:05 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
5310C TOC	Analytical Method: SM 5310C Pace Analytical Services - Kansas City							
Total Organic Carbon	**1.4**	mg/L	1.0	1		04/03/25 14:32	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C Pace Analytical Services - Kansas City							
Dissolved Organic Carbon	**1.3**	mg/L	1.0	1		04/03/25 06:46		

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ANALYTICAL RESULTS

Project: TEC BASA Additional
Pace Project No.: 60471155

Sample: TEC-BASA-DUP-091124 **Lab ID: 60471155004** Collected: 03/13/25 14:05 Received: 03/14/25 18:05 Matrix: Water

Parameters	Results	Units	Report Limit	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							
Magnesium, Total Recoverable	**23.7**	mg/L	0.050	1	03/18/25 14:48	03/24/25 17:11	7439-95-4	
Potassium, Total Recoverable	**4.5**	mg/L	0.50	1	03/18/25 14:48	03/24/25 17:11	7440-09-7	
Sodium, Total Recoverable	**184**	mg/L	0.50	1	03/18/25 14:48	03/24/25 17:11	7440-23-5	
Total Hardness by 2340B, Total Recoverable	**433**	mg/L	0.50	1	03/18/25 14:48	03/24/25 17:11		
200.7 Metals, Dissolved	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City							
Magnesium, Dissolved	**23.0**	mg/L	0.050	1	03/18/25 09:30	03/28/25 15:29	7439-95-4	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City							
Aluminum, Total Recoverable	**4.9**	mg/L	0.050	1	03/18/25 12:45	03/20/25 16:03	7429-90-5	
Iron, Total Recoverable	**5.7**	mg/L	0.050	1	03/18/25 12:45	03/20/25 16:03	7439-89-6	
Manganese, Total Recoverable	**0.67**	mg/L	0.0010	1	03/18/25 12:45	03/20/25 16:03	7439-96-5	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City							
Aluminum, Dissolved	**0.064**	mg/L	0.050	1	03/18/25 09:30	03/21/25 13:58	7429-90-5	
Arsenic, Dissolved	**0.0013**	mg/L	0.0010	1	03/18/25 09:30	03/21/25 13:58	7440-38-2	
Cobalt, Dissolved	**0.0011**	mg/L	0.0010	1	03/18/25 09:30	03/21/25 13:58	7440-48-4	
Iron, Dissolved	**0.095**	mg/L	0.050	1	03/18/25 09:30	03/21/25 13:58	7439-89-6	
Manganese, Dissolved	**0.36**	mg/L	0.0010	1	03/18/25 09:30	03/21/25 13:58	7439-96-5	
Wet Chemistry 2320 B-2011	Analytical Method: SM 2320B Preparation Method: 2320 B-2011 Pace National - Mt. Juliet							
Alkalinity, Total as CaCO3	**424**	mg/L	20.0	1	03/27/25 14:03	03/27/25 14:03		
Wet Chemistry 353.2	Analytical Method: EPA 353.2 Preparation Method: 353.2 Pace National - Mt. Juliet							
Nitrate-Nitrite (as N)	**<0.200**	mg/L	0.200	1	03/21/25 02:30	03/21/25 02:30	7727-37-9	
Wet Chemistry 365.4	Analytical Method: EPA 365.4 Preparation Method: 351.2/365.4 Pace National - Mt. Juliet							
Phosphorus	**0.634**	mg/L	0.100	1	03/24/25 20:51	03/24/25 22:38	7723-14-0	
Iron, Ferrous	Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City							
Iron, Ferrous	**2.4**	mg/L	0.20	1		03/19/25 13:01	15438-31-0	H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D Pace Analytical Services - Kansas City							
Sulfide, Total	**0.12**	mg/L	0.050	1		03/17/25 13:57	18496-25-8	

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ANALYTICAL RESULTS

Project: TEC BASA Additional
Pace Project No.: 60471155

Sample: TEC-BASA-DUP-091124 **Lab ID: 60471155004** Collected: 03/13/25 14:05 Received: 03/14/25 18:05 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
5310C TOC	Analytical Method: SM 5310C Pace Analytical Services - Kansas City							
Total Organic Carbon	**<1.0**	mg/L	1.0	1		04/03/25 14:52	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C Pace Analytical Services - Kansas City							
Dissolved Organic Carbon	**<1.0**	mg/L	1.0	1		04/03/25 07:27		

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QUALITY CONTROL DATA

Project: TEC BASA Additional
Pace Project No.: 60471155

QC Batch: 928167
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: 60471155001, 60471155002, 60471155003, 60471155004

METHOD BLANK: 3676267 Matrix: Water
Associated Lab Samples: 60471155001, 60471155002, 60471155003, 60471155004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hardness, Total(SM 2340B)	mg/L	<0.50	0.50	03/24/25 17:28	
Magnesium	mg/L	<0.050	0.050	03/24/25 17:28	
Potassium	mg/L	<0.50	0.50	03/24/25 17:28	
Sodium	mg/L	<0.50	0.50	03/24/25 17:28	

LABORATORY CONTROL SAMPLE: 3676268

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Hardness, Total(SM 2340B)	mg/L	66.2	66.1	100	85-115	
Magnesium	mg/L	10	9.8	98	85-115	
Potassium	mg/L	10	10.0	100	85-115	
Sodium	mg/L	10	10.1	101	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3676269 3676270

Parameter	Units	60471043003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Hardness, Total(SM 2340B)	mg/L	155000 ug/L	66.2	66.2	218	223	96	103	70-130	2	20	
Magnesium	mg/L	9170 ug/L	10	10	18.6	19.0	94	98	70-130	2	20	
Potassium	mg/L	7630 ug/L	10	10	17.4	17.6	98	100	70-130	1	20	
Sodium	mg/L	296000 ug/L	10	10	306	311	100	159	70-130	2	20	M1

MATRIX SPIKE SAMPLE: 3676271

Parameter	Units	60471152001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Hardness, Total(SM 2340B)	mg/L	213000 ug/L	66.2	282	104	70-130	
Magnesium	mg/L	9310 ug/L	10	19.2	99	70-130	
Potassium	mg/L	6160 ug/L	10	16.2	101	70-130	
Sodium	mg/L	54500 ug/L	10	65.3	108	70-130	

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QUALITY CONTROL DATA

Project: TEC BASA Additional
Pace Project No.: 60471155

QC Batch: 928238
QC Batch Method: EPA 200.7
Analysis Method: EPA 200.7
Analysis Description: 200.7 Metals, Dissolved
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60471155001, 60471155002, 60471155003, 60471155004

METHOD BLANK: 3676603 Matrix: Water
Associated Lab Samples: 60471155001, 60471155002, 60471155003, 60471155004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Magnesium, Dissolved	mg/L	<0.050	0.050	03/28/25 15:16	

LABORATORY CONTROL SAMPLE: 3676604

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Magnesium, Dissolved	mg/L	10	10.7	107	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3676605 3676606

Parameter	Units	60471155003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Magnesium, Dissolved	mg/L	31.0	10	10	41.3	41.2	103	101	70-130	0	20	

MATRIX SPIKE SAMPLE: 3676607

Parameter	Units	60471162002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Magnesium, Dissolved	mg/L	85.7	10	94.4	87	70-130	

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QUALITY CONTROL DATA

Project: TEC BASA Additional
Pace Project No.: 60471155

QC Batch: 928316
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: 60471155001, 60471155002, 60471155003, 60471155004

METHOD BLANK: 3676845 Matrix: Water
Associated Lab Samples: 60471155001, 60471155002, 60471155003, 60471155004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	mg/L	<0.050	0.050	03/20/25 15:36	
Iron	mg/L	<0.050	0.050	03/20/25 15:36	
Manganese	mg/L	<0.0010	0.0010	03/20/25 15:36	

LABORATORY CONTROL SAMPLE: 3676846

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	mg/L	1	1.0	102	85-115	
Iron	mg/L	1	0.94	94	85-115	
Manganese	mg/L	0.04	0.040	100	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3676847 3676848

Parameter	Units	60471155001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum	mg/L	4.5	1	1	6.2	6.2	173	167	70-130	1	20	M1
Iron	mg/L	5.3	1	1	6.7	6.7	138	135	70-130	0	20	M1
Manganese	mg/L	0.69	0.04	0.04	0.73	0.73	105	93	70-130	1	20	

MATRIX SPIKE SAMPLE: 3676849

Parameter	Units	60471174005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum	mg/L	1.8	1	3.0	124	70-130	
Iron	mg/L	8.1	1	9.0	82	70-130	
Manganese	mg/L	2.9	0.04	2.9	-34	70-130	M1

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QUALITY CONTROL DATA

Project: TEC BASA Additional
Pace Project No.: 60471155

QC Batch: 928239
QC Batch Method: EPA 200.8
Analysis Method: EPA 200.8
Analysis Description: 200.8 MET Dissolved
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60471155001, 60471155002, 60471155003, 60471155004

METHOD BLANK: 3676608 Matrix: Water
Associated Lab Samples: 60471155001, 60471155002, 60471155003, 60471155004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	mg/L	<0.050	0.050	03/21/25 13:53	
Arsenic, Dissolved	mg/L	<0.0010	0.0010	03/21/25 13:53	
Cobalt, Dissolved	mg/L	<0.0010	0.0010	03/21/25 13:53	
Iron, Dissolved	mg/L	<0.050	0.050	03/21/25 13:53	
Manganese, Dissolved	mg/L	<0.0010	0.0010	03/21/25 13:53	

LABORATORY CONTROL SAMPLE: 3676609

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	mg/L	1	0.96	96	85-115	
Arsenic, Dissolved	mg/L	0.04	0.038	96	85-115	
Cobalt, Dissolved	mg/L	0.04	0.039	96	85-115	
Iron, Dissolved	mg/L	1	1.0	100	85-115	
Manganese, Dissolved	mg/L	0.04	0.039	97	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3676610 3676611

Parameter	Units	60471155004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum, Dissolved	mg/L	0.064	1	1	1.1	1.1	101	101	70-130	1	20	
Arsenic, Dissolved	mg/L	0.0013	0.04	0.04	0.041	0.041	98	98	70-130	0	20	
Cobalt, Dissolved	mg/L	0.0011	0.04	0.04	0.039	0.040	95	96	70-130	1	20	
Iron, Dissolved	mg/L	0.095	1	1	1.1	1.1	101	101	70-130	0	20	
Manganese, Dissolved	mg/L	0.36	0.04	0.04	0.39	0.40	93	110	70-130	2	20	

MATRIX SPIKE SAMPLE: 3676612

Parameter	Units	60471162003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	mg/L	<0.25	1	1.2	121	70-130	
Arsenic, Dissolved	mg/L	<0.0050	0.04	0.038	92	70-130	
Cobalt, Dissolved	mg/L	<0.0050	0.04	0.042	101	70-130	
Iron, Dissolved	mg/L	<0.25	1	0.90	85	70-130	
Manganese, Dissolved	mg/L	0.10	0.04	0.14	86	70-130	

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QUALITY CONTROL DATA

Project: TEC BASA Additional
Pace Project No.: 60471155

QC Batch: 2477394
QC Batch Method: 2320 B-2011
Analysis Method: SM 2320B
Analysis Description: Wet Chemistry 2320 B-2011
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 60471155001, 60471155002, 60471155003, 60471155004

METHOD BLANK: R4191852-2 Matrix: Water
Associated Lab Samples: 60471155001, 60471155002, 60471155003, 60471155004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<20.0	20.0	03/27/25 08:10	

LABORATORY CONTROL SAMPLE: R4191852-1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	100	105	105	90.0-110	

SAMPLE DUPLICATE: R4191852-3

Parameter	Units	L1840169-02 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	164	166	0.719	20	

SAMPLE DUPLICATE: R4191852-4

Parameter	Units	60471155004 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	424	422	0.539	20	

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QUALITY CONTROL DATA

Project: TEC BASA Additional
Pace Project No.: 60471155

QC Batch: 2472916
QC Batch Method: 353.2
Analysis Method: EPA 353.2
Analysis Description: Wet Chemistry 353.2
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 60471155001, 60471155002, 60471155003, 60471155004

METHOD BLANK: R4189305-1 Matrix: Water
Associated Lab Samples: 60471155001, 60471155002, 60471155003, 60471155004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrate-Nitrite (as N)	mg/L	<0.200	0.200	03/21/25 01:09	

LABORATORY CONTROL SAMPLE: R4189305-2

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrate-Nitrite (as N)	mg/L	2.50	2.62	105	90.0-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R4189305-3 R4189305-4

Parameter	Units	L1837729-01 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrate-Nitrite (as N)	mg/L	0.369	2.50	2.50	3.01	2.99	106	105	90.0-110	0.700	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R4189305-5 R4189305-6

Parameter	Units	L1837783-02 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrate-Nitrite (as N)	mg/L	0.0450	2.50	2.50	2.64	2.67	104	105	90.0-110	1.39	20	

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QUALITY CONTROL DATA

Project: TEC BASA Additional
Pace Project No.: 60471155

QC Batch: 2475399
QC Batch Method: 351.2/365.4
Analysis Method: EPA 365.4
Analysis Description: Wet Chemistry 365.4
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 60471155001, 60471155002, 60471155003, 60471155004

METHOD BLANK: R4190341-1 Matrix: Water
Associated Lab Samples: 60471155001, 60471155002, 60471155003, 60471155004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Phosphorus	mg/L	<0.100	0.100	03/24/25 22:06	

METHOD BLANK: R4190341-7 Matrix: Water
Associated Lab Samples: 60471155001, 60471155002, 60471155003, 60471155004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Phosphorus	mg/L	<0.100	0.100	03/24/25 22:45	

LABORATORY CONTROL SAMPLE: R4190341-2

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphorus	mg/L	3.37	3.58	106	85.0-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R4190341-3 R4190341-4

Parameter	Units	L1837652-04 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phosphorus	mg/L	ND	2.50	2.50	2.71	2.68	108	107	90.0-110	1.11	20	

SAMPLE DUPLICATE: R4190341-5

Parameter	Units	L1837655-01 Result	Dup Result	RPD	Max RPD	Qualifiers
Phosphorus	mg/L	0.0827	<0.100	11.0	20	

SAMPLE DUPLICATE: R4190341-6

Parameter	Units	L1837681-01 Result	Dup Result	RPD	Max RPD	Qualifiers
Phosphorus	mg/L	ND	<0.100	0.00	20	

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QUALITY CONTROL DATA

Project: TEC BASA Additional
Pace Project No.: 60471155

QC Batch: 928269
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: 60471155001, 60471155002, 60471155003, 60471155004

METHOD BLANK: 3676656 Matrix: Water
Associated Lab Samples: 60471155001, 60471155002, 60471155003, 60471155004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron, Ferrous	mg/L	<0.20	0.20	03/19/25 13:01	H6

LABORATORY CONTROL SAMPLE: 3676657

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Ferrous	mg/L	2	2.0	100	90-110	H6

SAMPLE DUPLICATE: 3677354

Parameter	Units	60471162002 Result	Dup Result	RPD	Max RPD	Qualifiers
Iron, Ferrous	mg/L	0.35	0.33	5	20	H6

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QUALITY CONTROL DATA

Project: TEC BASA Additional
Pace Project No.: 60471155

QC Batch: 928087
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: 60471155001, 60471155002, 60471155003, 60471155004

METHOD BLANK: 3676016 Matrix: Water
Associated Lab Samples: 60471155001, 60471155002, 60471155003, 60471155004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide, Total	mg/L	<0.050	0.050	03/17/25 13:57	

LABORATORY CONTROL SAMPLE: 3676017

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: 3676019 3676020

Parameter	Units	60470739002 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	ND	0.5	0.5	0.34	0.34	62	61	75-125	1	20	M1

SAMPLE DUPLICATE: 3676018

Parameter	Units	60470739002 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	ND	<0.050		20	

SAMPLE DUPLICATE: 3676021

Parameter	Units	60470841002 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	0.060	0.063	5	20	

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QUALITY CONTROL DATA

Project: TEC BASA Additional
Pace Project No.: 60471155

QC Batch: 930116 | Analysis Method: SM 5310C
QC Batch Method: SM 5310C | Analysis Description: 5310C Total Organic Carbon
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60471155001, 60471155002, 60471155003, 60471155004

METHOD BLANK: 3684173 Matrix: Water
Associated Lab Samples: 60471155001, 60471155002, 60471155003, 60471155004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	<1.0	1.0	04/03/25 07:47	

LABORATORY CONTROL SAMPLE: 3684174

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	5	4.7	95	80-120	

MATRIX SPIKE SAMPLE: 3684175

Parameter	Units	60471118001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	3.2	5	8.1	98	80-120	

SAMPLE DUPLICATE: 3684176

Parameter	Units	60471118003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Organic Carbon	mg/L	1.6	1.6	1	25	

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QUALITY CONTROL DATA

Project: TEC BASA Additional
Pace Project No.: 60471155

QC Batch: 930118
QC Batch Method: SM 5310C
Analysis Method: SM 5310C
Analysis Description: 5310C Dissolved Organic Carbon
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60471155001, 60471155002, 60471155003, 60471155004

METHOD BLANK: 3684181 Matrix: Water
Associated Lab Samples: 60471155001, 60471155002, 60471155003, 60471155004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dissolved Organic Carbon	mg/L	<1.0	1.0	04/03/25 05:05	

LABORATORY CONTROL SAMPLE: 3684182

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	5	4.7	94	80-120	

MATRIX SPIKE SAMPLE: 3684183

Parameter	Units	60471155001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	<1.0	5	5.3	89	80-120	

SAMPLE DUPLICATE: 3684184

Parameter	Units	60471155003 Result	Dup Result	RPD	Max RPD	Qualifiers
Dissolved Organic Carbon	mg/L	1.3	1.2	2	25	

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QUALIFIERS

Project: TEC BASA Additional
Pace Project No.: 60471155

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.

SAMPLE QUALIFIERS

Sample: 60471155001
[1] Wet Chemistry by Method 2320 B-2011 - Endpoint pH 4.5 Headspace
Sample: 60471155002
[1] Wet Chemistry by Method 2320 B-2011 - Endpoint pH 4.5 Headspace
Sample: 60471155003
[1] Wet Chemistry by Method 2320 B-2011 - Endpoint pH 4.5 Headspace
Sample: 60471155004
[1] Wet Chemistry by Method 2320 B-2011 - Endpoint pH 4.5 Headspace
Sample: R4191852-1
[1] Wet Chemistry by Method 2320 B-2011 - Endpoint pH 4.5
Sample: R4191852-2
[1] Wet Chemistry by Method 2320 B-2011 - Endpoint pH 4.5
Sample: R4191852-3
[1] Wet Chemistry by Method 2320 B-2011 - Endpoint pH 4.5
Sample: R4191852-4
[1] Wet Chemistry by Method 2320 B-2011 - Endpoint pH 4.5

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QUALIFIERS

Project: TEC BASA Additional
Pace Project No.: 60471155

SAMPLE QUALIFIERS

Sample: L1840169-02

[1] Wet Chemistry by Method 2320 B-2011 - Endpoint pH 4.5 Headspace

ANALYTE QUALIFIERS

D9 Dissolved result is greater than the total. Data is within laboratory control limits.

H3 Sample was received or analysis requested beyond the recognized 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.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: TEC BASA Additional
Pace Project No.: 60471155

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60471155001	**MW-7-031325**	EPA 200.7	928167	EPA 200.7	928407
60471155002	**MW-8-031225**	EPA 200.7	928167	EPA 200.7	928407
60471155003	**MW-10-031225**	EPA 200.7	928167	EPA 200.7	928407
60471155004	**TEC-BASA-DUP-091124**	EPA 200.7	928167	EPA 200.7	928407
60471155001	**MW-7-031325**	EPA 200.7	928238	EPA 200.7	928310
60471155002	**MW-8-031225**	EPA 200.7	928238	EPA 200.7	928310
60471155003	**MW-10-031225**	EPA 200.7	928238	EPA 200.7	928310
60471155004	**TEC-BASA-DUP-091124**	EPA 200.7	928238	EPA 200.7	928310
60471155001	**MW-7-031325**	EPA 200.8	928316	EPA 200.8	928358
60471155002	**MW-8-031225**	EPA 200.8	928316	EPA 200.8	928358
60471155003	**MW-10-031225**	EPA 200.8	928316	EPA 200.8	928358
60471155004	**TEC-BASA-DUP-091124**	EPA 200.8	928316	EPA 200.8	928358
60471155001	**MW-7-031325**	EPA 200.8	928239	EPA 200.8	928309
60471155002	**MW-8-031225**	EPA 200.8	928239	EPA 200.8	928309
60471155003	**MW-10-031225**	EPA 200.8	928239	EPA 200.8	928309
60471155004	**TEC-BASA-DUP-091124**	EPA 200.8	928239	EPA 200.8	928309
60471155001	**MW-7-031325**	2320 B-2011	2477394	SM 2320B	2477394
60471155002	**MW-8-031225**	2320 B-2011	2477394	SM 2320B	2477394
60471155003	**MW-10-031225**	2320 B-2011	2477394	SM 2320B	2477394
60471155004	**TEC-BASA-DUP-091124**	2320 B-2011	2477394	SM 2320B	2477394
60471155001	**MW-7-031325**	353.2	2472916	EPA 353.2	2472916
60471155002	**MW-8-031225**	353.2	2472916	EPA 353.2	2472916
60471155003	**MW-10-031225**	353.2	2472916	EPA 353.2	2472916
60471155004	**TEC-BASA-DUP-091124**	353.2	2472916	EPA 353.2	2472916
60471155001	**MW-7-031325**	351.2/365.4	2475399	EPA 365.4	2475399
60471155002	**MW-8-031225**	351.2/365.4	2475399	EPA 365.4	2475399
60471155003	**MW-10-031225**	351.2/365.4	2475399	EPA 365.4	2475399
60471155004	**TEC-BASA-DUP-091124**	351.2/365.4	2475399	EPA 365.4	2475399
60471155001	**MW-7-031325**	SM 3500-Fe B#4	928269		
60471155002	**MW-8-031225**	SM 3500-Fe B#4	928269		
60471155003	**MW-10-031225**	SM 3500-Fe B#4	928269		
60471155004	**TEC-BASA-DUP-091124**	SM 3500-Fe B#4	928269		
60471155001	**MW-7-031325**	SM 4500-S-2 D	928087		
60471155002	**MW-8-031225**	SM 4500-S-2 D	928087		
60471155003	**MW-10-031225**	SM 4500-S-2 D	928087		
60471155004	**TEC-BASA-DUP-091124**	SM 4500-S-2 D	928087		
60471155001	**MW-7-031325**	SM 5310C	930116		
60471155002	**MW-8-031225**	SM 5310C	930116		
60471155003	**MW-10-031225**	SM 5310C	930116		
60471155004	**TEC-BASA-DUP-091124**	SM 5310C	930116		
60471155001	**MW-7-031325**	SM 5310C	930118		
60471155002	**MW-8-031225**	SM 5310C	930118		
60471155003	**MW-10-031225**	SM 5310C	930118		
60471155004	**TEC-BASA-DUP-091124**	SM 5310C	930118		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: TEC BASA Additional
Pace Project No.: 60471155

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch

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Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-LENE-0009_Samp	WO# : 60471155
	Revision: 2	Effective Date: 01/12/2(

60471155

Client Name: Evergy Kansas Central, Inc.

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 ☐ ZPLC

Thermometer Used: B01 **Type of Ice:** Wet Blue None

Cooler Temperature (°C): As-read 2.0 Corr. Factor +0.1 Corrected 2.1

Date and initials of person examining contents: JA 3/15/25

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#: 88721, 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: _____

Qualtrax Document ID: 30468

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

60471155

Scan QR Code for instructions

Company Name:	Evergy Kansas Central, Inc.	Contact/Report To:	Jake Humphrey
Street Address:	818 S Kansas Avenue, Topeka, KS 66612	Phone #:	(913)634-0605
		E-Mail:	jake.humphrey@evergy.com
		Cc E-Mail:	skaney@haleyaldrich.com
Customer Project #:			
Project Name:	TEC BASA Additional	Invoice To:	Tecumseh Center
		Invoice E-Mail:	evergyap@onlinecapturecenter.com
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	WSTR-2000094802
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [X] CT [ ] ET

County / State origin of sample(s): Kansas

Data Deliverables:
[ ] Level II [ ] Level III [ ] Level IV
[ ] EQUIS
[ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [ ] Yes [X] 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): [X] Yes [ ] No
Analysis: Metals, Dissolved and DOC

* 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	200.7/200.8 Diss Metals (FF)	200.7/200.8 Total Metals	2320B Alkalinity	4500S2D Sulfide, Total	5310C Dissolved Organic Carbon (FF)	5310C TOC	Iron, Ferrous	NO2NO3 , Total Phosphorus			Sample Comment
Specify Container Size **										2	3	3	3	3	3	6	3			
Identify Container Preservative Type***										2	2	1	5,6	3	3	4	3			
MW-7-031325	WT	Grab	-	-	3/13/2025	1405	10	-	-	X	X	X	X	X	X	X	X			
MW-8-031225	WT	Grab	-	-	3/12/2025	1540	10	-	-	X	X	X	X	X	X	X	X			
MW-9-031325	NS	NS	-	-	NS	NS	NS	-	-	-	-	-	-	-	-	-	-			NS - No Sample; Insufficient Groundwater
MW-10-031225	WT	Grab	-	-	3/12/2025	1205	10	-	-	X	X	X	X	X	X	X	X			
TEC-BASA-DUP-091124	WT	Grab	-	-	3/13/2025	1405	10	-	-	X	X	X	X	X	X	X	X			

**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: Alice Spiller
AcctNum / Client ID:
Table #:
Profile / Template: 16502
Prelog / Bottle Ord. ID: EZ 3230173

Preservation non-conformance identified for sample.

Additional Instructions from Pace®:
Total Metals; Mg,Na,K,Al,Fe,Mn, hardness
Diss Metals: As,Co,Fe,Al,Mg,Mn
Profile 16502, line 5

Collected By:
(Printed Name): Jason R. Franks
Signature: Jason R. Franks

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)	On Ice:
	T301	+0.1	2.0	2.1	

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Jason R. Franks / SCS	03/14/2025 / 17:00	FAPACE	3/14/25 1805
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: 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 ©

DC#_Title: ENV-FRM-LENE-0001 v07_Sample Container Count
Effective Date: 7/12/2024
Client: Evergy Kansas Central, Inc.

Profile/EZ # 16502 EZ: 3230173

Site: TEC BASA Additional

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										2								1		1	1	1		1					
2	WT		1										2								1		1	1	1		1					
3																																
4	WT		1										2								1		1	1	1		1					
5	WT		1										2								1		1	1	1		1					
6																					1		1	1	1		1					
7																					1		1	1	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: 60471155

Internal Transfer Chain of Custody

B016

Pace

☐ Rush Multiplier____X
☐ Samples Pre-Logged into eCOC

State Of Origin: KS
Cert. Needed: ☒ Yes ☐ No
Owner Received Date: 3/14/2025 Results Requested By: 3/31/2025

Workorder: 60471155 Workorder Name: TEC BASA Additional

Report To	Subcontract To
Alice Spiller Pace Analytical Kansas 9608 Loiret Blvd. Lenexa, KS 66219 Phone (913)599-5665	Pace National 12065 Lebanon Rd Mt. Juliet, TN 37122 Phone (615) 758-5858

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers: H2SO4						Requested Analysis: NO2NO3 pres	Total Phosphorus										LAB USE ONLY: 41837790
1	MW-7-031325	PS	3/13/2025 14:05	60471155001	Water	1						X	X										-01
2	MW-8-031225	PS	3/12/2025 15:40	60471155002	Water	1						X	X										-02
3	MW-10-031225	PS	3/12/2025 12:05	60471155003	Water	1						X	X										-03
4	TEC-BASA-DUP-091124	PS	3/13/2025 14:05	60471155004	Water	1						X	X										-04
5																							

Transfers	Released By	Date/Time	Received By	Date/Time
1				
2				
3			Christopher Gallien	3/19/25 0900

Comments: KS sample location: 60-R28-S6

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.

2.9+0.4=3.3

Sample Receipt Checklist

COC Seal Present/Intact:	X Y N NF	If Applicable	
COC Signed/Accurate:	X Y N	VOA Zero Headspace:	Y N
Bottles arrive intact:	X Y N	Pres. Correct/Check:	X Y N
Correct bottles used:	X Y N		
Sufficient volume sent:	X Y N	Condition: NCF	OK
RA Screen <0.5 mR/hr:	X Y N	4 TOTAL	

C168

Internal Transfer Chain of Custody

Pace

☐ Rush Multiplier_____X
☐ Samples Pre-Logged into eCOC

State Of Origin: KS
Cert. Needed: [X] Yes ☐ No
Owner Received Date: 3/14/2025 Results Requested By: 3/31/2025

Workorder: 60471155 Workorder Name: TEC BASA Additional

Report To	Subcontract To
Alice Spiller Pace Analytical Kansas 9608 Loiret Blvd. Lenexa, KS 66219 Phone (913)599-5665	Pace National 12065 Lebanon Rd Mt. Juliet, TN 37122 Phone (615) 758-5858

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers: Unpreserved	Requested Analysis: 2320B Alkalinity	LAB USE ONLY
1	MW-7-031325	PS	3/13/2025 14:05	60471155001	Water	1	X	-01
2	MW-8-031225	PS	3/12/2025 15:40	60471155002	Water	1	X	-02
3	MW-10-031225	PS	3/12/2025 12:05	60471155003	Water	1	X	-03
4	TEC-BASA-DUP-091124	PS	3/13/2025 14:05	60471155004	Water	1	X	-04
5								

L840444

Transfers	Released By	Date/Time	Received By	Date/Time
1			Ashley Painter	03/17/2025 0900
2				
3				

Comments: ***Please add to L1837790***
****RUSH-Alk. Holding Times****

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.

TUN 3.3+0.4=3.7 4033 6457 9007

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	Condition: __NCF __OK	
RA Screen <0.5 mR/hr:	__Y__N	Containers: 4	

INTER_LABORATORY WORK ORDER # 60471155
(To be completed by sending lab)

Ship To:
Pace National
12065 Lebanon Rd
Mt. Juliet, TN 37122
Phone (615) 758-5858

Sending Project No:	60471155
Receiving Project No:	
Check Box for Consolidated Invoice:	☐
Date Prepared:	03/26/25
REQUESTED COMPLETION DATE:	**3/31/2025**

Sending Region	IR60-Kansas	Sending Project Mgr.	Alice Spiller
Receiving Region	IR850-Pace National	External Client	Evergy_Haley & Aldrich
State of Sample Origin	KS	QC Deliverable	STD REPORT

All questions should be addressed to sending project manager.

Requested Reportable Units _____ Report Wet or Dry Weight? _____ ☐ IRWO Lab Need to run? Cert. Needed Yes

WORK REQUESTED

Method Description	Container Type	Quantity of containers	Preservative	Quantity of Samples	Acode	Acode Desc
2320B Alkalinity	BP3U		Unpreserved	4	SI-21WET0	SUB PASI WTA

Special Requirements: Report C, QC Limits (C),Haley & Aldrich Equis (230),PEG Level BR (497)

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.

LOCATION: 6090-R2-S3B

Unknown

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

April 07, 2025

Jake Humphrey
Evergy, Inc.
818 S Kansas Avenue
Topeka, KS 66612

RE: Project: TEC BASA
Pace Project No.: 60471157

Dear Jake Humphrey:

Enclosed are the analytical results for sample(s) received by the laboratory on March 14, 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,

Alice Spiller

Alice Spiller
alice.spiller@pacelabs.com
(913)599-5665
PM Lab Management

Enclosures

cc: Samantha Kaney, Haley & Aldrich
Melanie Satanek, Haley & Aldrich, Inc.
Adriana Sosa, Haley & Aldrich, Inc.
Nick Williams, Haley Aldrich

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(913)599-5665

CERTIFICATIONS

Project: TEC BASA
Pace Project No.: 60471157

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

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Lenexa, KS 66219
(913)599-5665

SAMPLE SUMMARY

Project: TEC BASA
Pace Project No.: 60471157

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60471157001	**MW-7-031325**	Water	03/13/25 14:05	03/14/25 18:05
60471157002	**MW-8-031225**	Water	03/12/25 15:40	03/14/25 18:05
60471157003	**MW-10-031225**	Water	03/12/25 12:05	03/14/25 18:05
60471157004	**TEC-BASA-DUP-091424**	Water	03/13/25 14:05	03/14/25 18:05

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SAMPLE ANALYTE COUNT

Project: TEC BASA
Pace Project No.: 60471157

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60471157001	**MW-7-031325**	EPA 200.7	ARMN	2	PASI-K
		EPA 6010	ARMN	1	PASI-K
		EPA 200.8	JGP	5	PASI-K
		SM 2540C	MLD	1	PASI-K
		SM 4500-H+B	MLD	1	PASI-K
		EPA 300.0	AAA	3	PASI-K
60471157002	**MW-8-031225**	EPA 200.7	ARMN	2	PASI-K
		EPA 6010	ARMN	1	PASI-K
		EPA 200.8	JGP	5	PASI-K
		SM 2540C	MLD	1	PASI-K
		SM 4500-H+B	MLD	1	PASI-K
		EPA 300.0	AAA	3	PASI-K
60471157003	**MW-10-031225**	EPA 200.7	ARMN	2	PASI-K
		EPA 6010	ARMN	1	PASI-K
		EPA 200.8	JGP	5	PASI-K
		SM 2540C	MLD	1	PASI-K
		SM 4500-H+B	DLJ	1	PASI-K
		EPA 300.0	AAA	3	PASI-K
60471157004	**TEC-BASA-DUP-091424**	EPA 200.7	ARMN	2	PASI-K
		EPA 6010	ARMN	1	PASI-K
		EPA 200.8	JGP	5	PASI-K
		SM 2540C	MLD	1	PASI-K
		SM 4500-H+B	MLD	1	PASI-K
		EPA 300.0	AAA	3	PASI-K

PASI-K = Pace Analytical Services - Kansas City

REPORT OF LABORATORY ANALYSIS

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Lenexa, KS 66219
(913)599-5665

PROJECT NARRATIVE

Project: TEC BASA
Pace Project No.: 60471157

Method: **EPA 200.7**
Description: 200.7 Metals, Total
Client: Evergy_Haley & Aldrich
Date: April 07, 2025

General Information:
4 samples were analyzed for EPA 200.7 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 200.7 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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Lenexa, KS 66219
(913)599-5665

PROJECT NARRATIVE

Project: TEC BASA
Pace Project No.: 60471157

Method: **EPA 6010**
Description: 6010 MET ICP
Client: Evergy_Haley & Aldrich
Date: April 07, 2025

General Information:
4 samples were analyzed for EPA 6010 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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Lenexa, KS 66219
(913)599-5665

PROJECT NARRATIVE

Project: TEC BASA
Pace Project No.: 60471157

Method: **EPA 200.8**
Description: 200.8 MET ICPMS
Client: Evergy_Haley & Aldrich
Date: April 07, 2025

General Information:
4 samples were analyzed for EPA 200.8 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 200.8 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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Lenexa, KS 66219
(913)599-5665

PROJECT NARRATIVE

Project: TEC BASA
Pace Project No.: 60471157

Method: **SM 2540C**
Description: 2540C Total Dissolved Solids
Client: Evergy_Haley & Aldrich
Date: April 07, 2025

General Information:
4 samples were analyzed for SM 2540C by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

QC Batch: 928454

D6: The precision between the sample and sample duplicate exceeded laboratory control limits.

- DUP (Lab ID: 3677319)
  - Total Dissolved Solids

QC Batch: 928612

D6: The precision between the sample and sample duplicate exceeded laboratory control limits.

- DUP (Lab ID: 3678477)
  - Total Dissolved Solids

Additional Comments:

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(913)599-5665

PROJECT NARRATIVE

Project: TEC BASA
Pace Project No.: 60471157

Method: **SM 4500-H+B**
Description: 4500H+ pH, Electrometric
Client: Evergy_Haley & Aldrich
Date: April 07, 2025

General Information:
4 samples were analyzed for SM 4500-H+B by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

H3: Sample was received or analysis requested beyond the recognized method holding time.
- MW-10-031225 (Lab ID: 60471157003)

H6: Analysis initiated outside of the 15 minute EPA required holding time.
- MW-10-031225 (Lab ID: 60471157003)
- MW-7-031325 (Lab ID: 60471157001)
- MW-8-031225 (Lab ID: 60471157002)
- TEC-BASA-DUP-091424 (Lab ID: 60471157004)

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA
Pace Project No.: 60471157

Method: **EPA 300.0**
Description: 300.0 IC Anions 28 Days
Client: Evergy_Haley & Aldrich
Date: April 07, 2025

General Information:
4 samples were analyzed for EPA 300.0 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 930165

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60471213005,60471213006

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 3684425)
  - Fluoride
- MSD (Lab ID: 3684426)
  - Fluoride

R1: RPD value was outside control limits.

- MSD (Lab ID: 3684426)
  - Fluoride

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: TEC BASA
Pace Project No.: 60471157

Sample: MW-7-031325 **Lab ID: 60471157001** Collected: 03/13/25 14:05 Received: 03/14/25 18:05 Matrix: Water

Parameters	Results	Units	Report Limit	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							
Boron, Total Recoverable	**0.57**	mg/L	0.10	1	03/18/25 14:48	03/24/25 17:13	7440-42-8	
Calcium, Total Recoverable	**142**	mg/L	0.20	1	03/18/25 14:48	03/24/25 17:13	7440-70-2	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Kansas City							
Lithium, Total Recoverable	**33.8**	ug/L	10.0	1	03/19/25 08:02	03/26/25 12:49	7439-93-2	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City							
Arsenic, Total Recoverable	**0.0042**	mg/L	0.0010	1	03/18/25 12:45	03/20/25 16:06	7440-38-2	
Barium, Total Recoverable	**0.16**	mg/L	0.0010	1	03/18/25 12:45	03/20/25 16:06	7440-39-3	
Chromium, Total Recoverable	**0.012**	mg/L	0.0010	1	03/18/25 12:45	03/20/25 16:06	7440-47-3	
Cobalt, Total Recoverable	**0.010**	mg/L	0.0010	1	03/18/25 12:45	03/20/25 16:06	7440-48-4	
Molybdenum, Total Recoverable	**0.016**	mg/L	0.0010	1	03/18/25 12:45	03/20/25 16:06	7439-98-7	
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City							
Total Dissolved Solids	**<66.7**	mg/L	66.7	1		03/20/25 16:59		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Kansas City							
pH at 25 Degrees C	**7.7**	Std. Units	0.10	1		03/25/25 15:21		H6
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City							
Chloride	**187**	mg/L	20.0	20		04/03/25 21:05	16887-00-6	
Fluoride	**0.31**	mg/L	0.20	1		04/03/25 20:52	16984-48-8	
Sulfate	**205**	mg/L	20.0	20		04/03/25 21:05	14808-79-8	

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ANALYTICAL RESULTS

Project: TEC BASA
Pace Project No.: 60471157

Sample: MW-8-031225 **Lab ID: 60471157002** Collected: 03/12/25 15:40 Received: 03/14/25 18:05 Matrix: Water

Parameters	Results	Units	Report Limit	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							
Boron, Total Recoverable	**1.1**	mg/L	0.10	1	03/18/25 14:48	03/24/25 17:15	7440-42-8	
Calcium, Total Recoverable	**184**	mg/L	0.20	1	03/18/25 14:48	03/24/25 17:15	7440-70-2	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Kansas City							
Lithium, Total Recoverable	**17.0**	ug/L	10.0	1	03/19/25 08:02	03/26/25 12:50	7439-93-2	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City							
Arsenic, Total Recoverable	**0.0015**	mg/L	0.0010	1	03/18/25 12:45	03/20/25 16:15	7440-38-2	
Barium, Total Recoverable	**0.055**	mg/L	0.0010	1	03/18/25 12:45	03/20/25 16:15	7440-39-3	
Chromium, Total Recoverable	**0.0016**	mg/L	0.0010	1	03/18/25 12:45	03/20/25 16:15	7440-47-3	
Cobalt, Total Recoverable	**<0.0010**	mg/L	0.0010	1	03/18/25 12:45	03/20/25 16:15	7440-48-4	
Molybdenum, Total Recoverable	**0.040**	mg/L	0.0010	1	03/18/25 12:45	03/20/25 16:15	7439-98-7	
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City							
Total Dissolved Solids	**2050**	mg/L	66.7	1		03/19/25 15:49		MW
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Kansas City							
pH at 25 Degrees C	**7.2**	Std. Units	0.10	1		03/25/25 15:21		H6
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City							
Chloride	**194**	mg/L	20.0	20		04/03/25 21:47	16887-00-6	
Fluoride	**0.26**	mg/L	0.20	1		04/03/25 21:33	16984-48-8	
Sulfate	**568**	mg/L	100	100		04/03/25 22:29	14808-79-8	

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ANALYTICAL RESULTS

Project: TEC BASA
Pace Project No.: 60471157

Sample: MW-10-031225 **Lab ID: 60471157003** Collected: 03/12/25 12:05 Received: 03/14/25 18:05 Matrix: Water

Parameters	Results	Units	Report Limit	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							
Boron, Total Recoverable	**0.28**	mg/L	0.10	1	03/18/25 14:48	03/24/25 17:17	7440-42-8	
Calcium, Total Recoverable	**156**	mg/L	0.20	1	03/18/25 14:48	03/24/25 17:17	7440-70-2	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Kansas City							
Lithium, Total Recoverable	**<10.0**	ug/L	10.0	1	03/19/25 08:02	03/26/25 12:52	7439-93-2	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City							
Arsenic, Total Recoverable	**0.0037**	mg/L	0.0010	1	03/18/25 12:45	03/20/25 16:18	7440-38-2	
Barium, Total Recoverable	**0.12**	mg/L	0.0010	1	03/18/25 12:45	03/20/25 16:18	7440-39-3	
Chromium, Total Recoverable	**<0.0010**	mg/L	0.0010	1	03/18/25 12:45	03/20/25 16:18	7440-47-3	
Cobalt, Total Recoverable	**0.0073**	mg/L	0.0010	1	03/18/25 12:45	03/20/25 16:18	7440-48-4	
Molybdenum, Total Recoverable	**0.0034**	mg/L	0.0010	1	03/18/25 12:45	03/20/25 16:18	7439-98-7	
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City							
Total Dissolved Solids	**1170**	mg/L	100	1		03/19/25 15:49		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Kansas City							
pH at 25 Degrees C	**7.2**	Std. Units	0.10	1		03/25/25 12:56		H3,H6
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City							
Chloride	**326**	mg/L	20.0	20		04/03/25 22:56	16887-00-6	
Fluoride	**0.38**	mg/L	0.20	1		04/03/25 22:42	16984-48-8	
Sulfate	**227**	mg/L	20.0	20		04/03/25 22:56	14808-79-8	

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ANALYTICAL RESULTS

Project: TEC BASA
Pace Project No.: 60471157

Sample: TEC-BASA-DUP-091424 **Lab ID: 60471157004** Collected: 03/13/25 14:05 Received: 03/14/25 18:05 Matrix: Water

Parameters	Results	Units	Report Limit	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							
Boron, Total Recoverable	**0.56**	mg/L	0.10	1	03/18/25 14:48	03/24/25 17:19	7440-42-8	
Calcium, Total Recoverable	**139**	mg/L	0.20	1	03/18/25 14:48	03/24/25 17:19	7440-70-2	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Kansas City							
Lithium, Total Recoverable	**38.5**	ug/L	10.0	1	03/19/25 08:02	03/26/25 12:54	7439-93-2	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City							
Arsenic, Total Recoverable	**0.0044**	mg/L	0.0010	1	03/18/25 12:45	03/20/25 16:21	7440-38-2	
Barium, Total Recoverable	**0.17**	mg/L	0.0010	1	03/18/25 12:45	03/20/25 16:21	7440-39-3	
Chromium, Total Recoverable	**0.013**	mg/L	0.0010	1	03/18/25 12:45	03/20/25 16:21	7440-47-3	
Cobalt, Total Recoverable	**0.011**	mg/L	0.0010	1	03/18/25 12:45	03/20/25 16:21	7440-48-4	
Molybdenum, Total Recoverable	**0.016**	mg/L	0.0010	1	03/18/25 12:45	03/20/25 16:21	7439-98-7	
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City							
Total Dissolved Solids	**1030**	mg/L	66.7	1		03/20/25 16:56		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Kansas City							
pH at 25 Degrees C	**7.7**	Std. Units	0.10	1		03/25/25 15:21		H6
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City							
Chloride	**190**	mg/L	20.0	20		04/03/25 23:38	16887-00-6	
Fluoride	**0.31**	mg/L	0.20	1		04/03/25 23:24	16984-48-8	
Sulfate	**211**	mg/L	20.0	20		04/03/25 23:38	14808-79-8	

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QUALITY CONTROL DATA

Project: TEC BASA
Pace Project No.: 60471157

QC Batch: 928167
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: 60471157001, 60471157002, 60471157003, 60471157004

METHOD BLANK: 3676267 Matrix: Water
Associated Lab Samples: 60471157001, 60471157002, 60471157003, 60471157004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Boron	mg/L	<0.10	0.10	03/24/25 17:28	
Calcium	mg/L	<0.20	0.20	03/24/25 17:28	

LABORATORY CONTROL SAMPLE: 3676268

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	mg/L	1	0.93	93	85-115	
Calcium	mg/L	10	10.2	102	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3676269 3676270

Parameter	Units	60471043003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Boron	mg/L	ND	1	1	0.91	0.93	90	92	70-130	2	20	
Calcium	mg/L	46800 ug/L	10	10	56.5	57.9	97	111	70-130	2	20	

MATRIX SPIKE SAMPLE: 3676271

Parameter	Units	60471152001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Boron	mg/L	ND	1	1.0	95	70-130	
Calcium	mg/L	70000 ug/L	10	81.4	114	70-130	

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QUALITY CONTROL DATA

Project: TEC BASA
Pace Project No.: 60471157

QC Batch: 928316
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: 60471157001, 60471157002, 60471157003, 60471157004

METHOD BLANK: 3676845 Matrix: Water
Associated Lab Samples: 60471157001, 60471157002, 60471157003, 60471157004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/L	<0.0010	0.0010	03/20/25 15:36	
Barium	mg/L	<0.0010	0.0010	03/20/25 15:36	
Chromium	mg/L	<0.0010	0.0010	03/20/25 15:36	
Cobalt	mg/L	<0.0010	0.0010	03/20/25 15:36	
Molybdenum	mg/L	<0.0010	0.0010	03/20/25 15:36	

LABORATORY CONTROL SAMPLE: 3676846

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	0.04	0.037	93	85-115	
Barium	mg/L	0.04	0.039	97	85-115	
Chromium	mg/L	0.04	0.039	98	85-115	
Cobalt	mg/L	0.04	0.037	93	85-115	
Molybdenum	mg/L	0.04	0.038	96	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3676847 3676848

Parameter	Units	60471155001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/L	0.0027	0.04	0.04	0.039	0.039	92	92	70-130	0	20	
Barium	mg/L	107 ug/L	0.04	0.04	0.15	0.15	109	101	70-130	2	20	
Chromium	mg/L	0.0059	0.04	0.04	0.042	0.042	91	90	70-130	1	20	
Cobalt	mg/L	0.0053	0.04	0.04	0.044	0.044	96	97	70-130	1	20	
Molybdenum	mg/L	0.015	0.04	0.04	0.052	0.052	92	92	70-130	0	20	

MATRIX SPIKE SAMPLE: 3676849

Parameter	Units	60471174005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	0.011	0.04	0.049	93	70-130	
Barium	mg/L	0.044	0.04	0.083	100	70-130	
Chromium	mg/L	<0.0010	0.04	0.036	87	70-130	
Cobalt	mg/L	0.011	0.04	0.049	95	70-130	
Molybdenum	mg/L	0.0016	0.04	0.038	92	70-130	

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QUALITY CONTROL DATA

Project: TEC BASA
Pace Project No.: 60471157

QC Batch: 928234
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60471157001, 60471157002, 60471157003, 60471157004

METHOD BLANK: 3676587 Matrix: Water
Associated Lab Samples: 60471157001, 60471157002, 60471157003, 60471157004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lithium	ug/L	<10.0	10.0	03/26/25 12:21	

LABORATORY CONTROL SAMPLE: 3676588

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lithium	ug/L	1000	991	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3676589 3676590

Parameter	Units	60471191001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lithium	ug/L	0.062 mg/L	1000	1000	1000	1010	94	95	75-125	1	20	

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QUALITY CONTROL DATA

Project: TEC BASA
Pace Project No.: 60471157

QC Batch: 928454
QC Batch Method: SM 2540C
Analysis Method: SM 2540C
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60471157002, 60471157003

METHOD BLANK: 3677316 Matrix: Water
Associated Lab Samples: 60471157002, 60471157003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<5.0	5.0	03/19/25 15:41	

LABORATORY CONTROL SAMPLE: 3677317

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	1000	987	99	80-120	MW

SAMPLE DUPLICATE: 3677318

Parameter	Units	60470878001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	348	332	5	10	

SAMPLE DUPLICATE: 3677319

Parameter	Units	60471161003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1550	1250	21	10	D6

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QUALITY CONTROL DATA

Project: TEC BASA
Pace Project No.: 60471157

QC Batch: 928612
QC Batch Method: SM 2540C
Analysis Method: SM 2540C
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60471157001, 60471157004

METHOD BLANK: 3677987 Matrix: Water
Associated Lab Samples: 60471157001, 60471157004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<5.0	5.0	03/20/25 16:56	

LABORATORY CONTROL SAMPLE: 3677988

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

SAMPLE DUPLICATE: 3678477

Parameter	Units	60470873006 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1570	1170	29	10	D6

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QUALITY CONTROL DATA

Project: TEC BASA
Pace Project No.: 60471157

QC Batch: 929161
QC Batch Method: SM 4500-H+B
Analysis Method: SM 4500-H+B
Analysis Description: 4500H+B pH
Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60471157003

SAMPLE DUPLICATE: 3680203

Parameter	Units	60471123001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.2	7.2	0	5	H3,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

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

QUALITY CONTROL DATA

Project: TEC BASA
Pace Project No.: 60471157

QC Batch: 929162
QC Batch Method: SM 4500-H+B
Analysis Method: SM 4500-H+B
Analysis Description: 4500H+B pH
Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60471157001, 60471157002, 60471157004

SAMPLE DUPLICATE: 3680204

Parameter	Units	60471161003 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.9	7.8	2	5	H6

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QUALITY CONTROL DATA

Project: TEC BASA
Pace Project No.: 60471157

QC Batch: 930165
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: 60471157001, 60471157002, 60471157003, 60471157004

METHOD BLANK: 3684423 Matrix: Water
Associated Lab Samples: 60471157001, 60471157002, 60471157003, 60471157004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<1.0	1.0	04/03/25 07:02	
Fluoride	mg/L	<0.20	0.20	04/03/25 07:02	
Sulfate	mg/L	<1.0	1.0	04/03/25 07:02	

LABORATORY CONTROL SAMPLE: 3684424

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	2.5	99	90-110	
Sulfate	mg/L	5	4.7	94	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3684425 3684426

Parameter	Units	60471213005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	5.6	5	5	9.9	10.5	87	99	80-120	6	15	
Fluoride	mg/L	ND	2.5	2.5	0.37	0.82	8	26	80-120	76	15	M1,R1
Sulfate	mg/L	2130	2000	2000	3900	3810	89	84	80-120	2	15	

MATRIX SPIKE SAMPLE: 3684427

Parameter	Units	60471213006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	2.9	5	7.0	82	80-120	
Fluoride	mg/L	0.58	2.5	3.0	95	80-120	
Sulfate	mg/L	458	500	932	95	80-120	

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

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QUALIFIERS

Project: TEC BASA
Pace Project No.: 60471157

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

D6	The precision between the sample and sample duplicate exceeded laboratory control limits.
H3	Sample was received or analysis requested beyond the recognized 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.
MW	Due to matrix interference, achieving a constant weight is not possible.
R1	RPD value was outside control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: TEC BASA
Pace Project No.: 60471157

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60471157001	**MW-7-031325**	EPA 200.7	928167	EPA 200.7	928407
60471157002	**MW-8-031225**	EPA 200.7	928167	EPA 200.7	928407
60471157003	**MW-10-031225**	EPA 200.7	928167	EPA 200.7	928407
60471157004	**TEC-BASA-DUP-091424**	EPA 200.7	928167	EPA 200.7	928407
60471157001	**MW-7-031325**	EPA 3010	928234	EPA 6010	928531
60471157002	**MW-8-031225**	EPA 3010	928234	EPA 6010	928531
60471157003	**MW-10-031225**	EPA 3010	928234	EPA 6010	928531
60471157004	**TEC-BASA-DUP-091424**	EPA 3010	928234	EPA 6010	928531
60471157001	**MW-7-031325**	EPA 200.8	928316	EPA 200.8	928358
60471157002	**MW-8-031225**	EPA 200.8	928316	EPA 200.8	928358
60471157003	**MW-10-031225**	EPA 200.8	928316	EPA 200.8	928358
60471157004	**TEC-BASA-DUP-091424**	EPA 200.8	928316	EPA 200.8	928358
60471157001	**MW-7-031325**	SM 2540C	928612		
60471157002	**MW-8-031225**	SM 2540C	928454		
60471157003	**MW-10-031225**	SM 2540C	928454		
60471157004	**TEC-BASA-DUP-091424**	SM 2540C	928612		
60471157001	**MW-7-031325**	SM 4500-H+B	929162		
60471157002	**MW-8-031225**	SM 4500-H+B	929162		
60471157003	**MW-10-031225**	SM 4500-H+B	929161		
60471157004	**TEC-BASA-DUP-091424**	SM 4500-H+B	929162		
60471157001	**MW-7-031325**	EPA 300.0	930165		
60471157002	**MW-8-031225**	EPA 300.0	930165		
60471157003	**MW-10-031225**	EPA 300.0	930165		
60471157004	**TEC-BASA-DUP-091424**	EPA 300.0	930165		

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Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-LENE-0009_Sam	WO#: 60471157
	Revision: 2	Effective Date: 01/12/2

Client Name: Evergy Kansas Central, Inc.

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 ☑ ZPLC

Thermometer Used: T301 **Type of Ice:** (Wet) Blue None

Cooler Temperature (°C): As-read 1.1 Corr. Factor +0.1 Corrected 1.2

Date and initials of person examining contents: 3/15/25 JA

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? (HNO3, H2SO4, HCl<2; NaOH>9 Sulfide, NaOH>10 Cyanide) (Exceptions: VOA, Micro, O&G, KS TPH, OK-DRO) LOT#: 88127	☑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

6047157

Scan QR Code for instructions

Company Name:	Evergy Kansas Central, Inc.	Contact/Report To:	Jake Humphrey
Street Address:	818 S Kansas Avenue, Topeka, KS 66612	Phone #:	(913)634-0605
		E-Mail:	jake.humphrey@evergy.com
		Cc E-Mail:	skaney@haleyaldrich.com
Customer Project #:			
Project Name:	TEC BASA	Invoice To:	Tecumseh Center
		Invoice E-Mail:	evergyap@onlinecapturecenter.com
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	WSTR-2000094802
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [X] CT [ ] ET

County / State origin of sample(s): Kansas

Data Deliverables:
[ ] Level II [ ] Level III [ ] Level IV
[ ] EQUIS
[ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [ ] Yes [X] 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 [X] 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 **: 3 2 2

Identify Container Preservative Type***: 2 1 1

**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	200.7/200.8/245.1/6010	2540C Total Dissolved Solids	300.0 Cl,F,SO4,pH	Sample Comment
MW-7-031325	WT	Grab	-	-	3/13/2025	1405	3	-	-	X	X	X	
MW-8-031225	WT	Grab	-	-	3/12/2025	1540	3	-	-	X	X	X	
MW-9-031325	NS	NS	-	-	NS	NS	NS	-	-	-	-	-	NS - No Sample; Insufficient Groundwater
MW-10-031225	WT	Grab	-	-	3/12/2025	1205	3	-	-	X	X	X	
TEC-BASA-DUP-091124	WT	Grab	-	-	3/13/2025	1405	3	-	-	X	X	X	

Lab Use Only
Proj. Mgr: Alice Spiller
AcctNum / Client ID:
Table #:
Profile / Template: 16502
Prelog / Bottle Ord. ID: EZ 3230170

Preservation non-conformance identified for sample:

Additional Instructions from Pace®:
Metals, B,Ca,As,Ba,Co,Li,Mo

Collected By: (Printed Name) Jason R. Franks
Signature: Jason R. Franks

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)	On Ice:
			1.1	1.2	

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Jason R. Franks / SCS	03/14/2025 / 17:00		3-14 1805
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: 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/

DC#_Title: ENV-FRM-LENE-0001 v07_Sample Container Count
Effective Date: 7/12/2024

Client: Evergy Kansas Central, Inc. Profile/EZ # 16502 EZ-3230170

Site: TEC BASA 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	WT																			2			1									
3																																
4	WT																			2			1									
5	WT																			2			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: 66471157

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

June 03, 2025

Jake Humphrey
Evergy, Inc.
818 S Kansas Avenue
Topeka, KS 66612

RE: Project: TEC BASA PERIMETER-DEEP-Revised Report
Pace Project No.: 60471162

Dear Jake Humphrey:

Enclosed are the analytical results for sample(s) received by the laboratory on March 15, 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 National - Mt. Juliet
- Pace Analytical Services - Kansas City

REVISED to include chloride reanalysis data for samples MW-21, MW-22 per client request.

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

Sincerely,

Alice Spiller

Alice Spiller
alice.spiller@pacelabs.com
(913)599-5665
PM Lab Management

Enclosures

cc: Samantha Kaney, Haley & Aldrich
Melanie Satanek, Haley & Aldrich, Inc.
Adriana Sosa, Haley & Aldrich, Inc.
Nick Williams, Haley Aldrich

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CERTIFICATIONS

Project: TEC BASA PERIMETER-DEEP-Revised Report
Pace Project No.: 60471162

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

Pace Analytical Services National
12065 Lebanon Road, Mt. Juliet, TN 37122
Alabama Certification #: 40660
Alaska Certification 17-026
Arizona Certification #: AZ0612
Arkansas Certification #: 88-0469
California Certification #: 2932
Canada Certification #: 1461.01
Colorado Certification #: TN00003
Connecticut Certification #: PH-0197
DOD Certification: #1461.01
EPA# TN00003
Florida Certification #: E87487
Georgia DW Certification #: 923
Georgia Certification: NELAP
Idaho Certification #: TN00003
Illinois Certification #: 200008
Indiana Certification #: C-TN-01
Iowa Certification #: 364
Kansas Certification #: E-10277
Kentucky UST Certification #: 16
Kentucky Certification #: 90010
Louisiana Certification #: AI30792
Louisiana DW Certification #: LA180010
Maine Certification #: TN0002
Maryland Certification #: 324
Massachusetts Certification #: M-TN003
Michigan Certification #: 9958
Minnesota Certification #: 047-999-395
Mississippi Certification #: TN00003
Missouri Certification #: 340
Montana Certification #: CERT0086
Nebraska Certification #: NE-OS-15-05
Nevada Certification #: TN-03-2002-34
New Hampshire Certification #: 2975
New Jersey Certification #: TN002
New Mexico DW Certification
New York Certification #: 11742
North Carolina Aquatic Toxicity Certification #: 41
North Carolina Drinking Water Certification #: 21704
North Carolina Environmental Certificate #: 375
North Dakota Certification #: R-140
Ohio VAP Certification #: CL0069
Oklahoma Certification #: 9915
Oregon Certification #: TN200002
Pennsylvania Certification #: 68-02979
Rhode Island Certification #: LAO00356
South Carolina Certification #: 84004
South Dakota Certification
Tennessee DW/Chem/Micro Certification #: 2006
Texas Certification #: T 104704245-17-14
Texas Mold Certification #: LAB0152
USDA Soil Permit #: P330-15-00234
Utah Certification #: TN00003
Virginia Certification #: VT2006
Vermont Dept. of Health: ID# VT-2006
Virginia Certification #: 460132
Washington Certification #: C847
West Virginia Certification #: 233
Wisconsin Certification #: 998093910
Wyoming UST Certification #: via A2LA 2926.01
A2LA-ISO 17025 Certification #: 1461.01
A2LA-ISO 17025 Certification #: 1461.02
AIHA-LAP/LLC EMLAP Certification #:100789

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Lenexa, KS 66219
(913)599-5665

SAMPLE SUMMARY

Project: TEC BASA PERIMETER-DEEP-Revised Report
Pace Project No.: 60471162

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60471162001	**MW-12D-031425**	Water	03/14/25 09:20	03/15/25 08:00
60471162002	**MW-20-031325**	Water	03/13/25 14:55	03/15/25 08:00
60471162003	**MW-21-031425**	Water	03/14/25 11:35	03/15/25 08:00
60471162004	**MW-22-031425**	Water	03/14/25 10:20	03/15/25 08:00

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: TEC BASA PERIMETER-DEEP-Revised Report
Pace Project No.: 60471162

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60471162001	**MW-12D-031425**	EPA 200.7	ARMN	6	PASI-K
		EPA 200.7	ARMN	1	PASI-K
		EPA 6010	ARMN	1	PASI-K
		EPA 200.8	JGP	7	PASI-K
		EPA 200.8	JGP	5	PASI-K
		EPA 353.2	CAT	1	PAN
		EPA 365.4	AEC	1	PAN
		SM 2540C	MLD	1	PASI-K
		SM 2320B	ARD	1	PAN
		SM 3500-Fe B#4	DLJ	1	PASI-K
		SM 4500-H+B	DLJ	1	PASI-K
		SM 4500-S-2 D	DLJ	1	PASI-K
		EPA 300.0	AAA	3	PASI-K
		SM 5310C	BMT	1	PASI-K
		SM 5310C	BMT	1	PASI-K
60471162002	**MW-20-031325**	EPA 200.7	ARMN	6	PASI-K
		EPA 200.7	ARMN	1	PASI-K
		EPA 6010	ARMN	1	PASI-K
		EPA 200.8	JGP	7	PASI-K
		EPA 200.8	JGP	5	PASI-K
		EPA 353.2	CAT	1	PAN
		EPA 365.4	AEC	1	PAN
		SM 2540C	MLD	1	PASI-K
		SM 2320B	ARD	1	PAN
		SM 3500-Fe B#4	DLJ	1	PASI-K
		SM 4500-H+B	MLD	1	PASI-K
		SM 4500-S-2 D	DLJ	1	PASI-K
		EPA 300.0	AAA	3	PASI-K
		SM 5310C	BMT	1	PASI-K
		SM 5310C	BMT	1	PASI-K
60471162003	**MW-21-031425**	EPA 200.7	ARMN	6	PASI-K
		EPA 200.7	ARMN	1	PASI-K
		EPA 6010	ARMN	1	PASI-K
		EPA 200.8	JGP	7	PASI-K
		EPA 200.8	JGP	5	PASI-K
		EPA 353.2	CAT	1	PAN
		EPA 365.4	AEC	1	PAN

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: TEC BASA PERIMETER-DEEP-Revised Report
Pace Project No.: 60471162

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 2540C	MLD	1	PASI-K
		SM 2320B	ARD	1	PAN
		SM 3500-Fe B#4	DLJ	1	PASI-K
		SM 4500-H+B	DLJ	1	PASI-K
		SM 4500-S-2 D	DLJ	1	PASI-K
		EPA 300.0	AAA, MLD	3	PASI-K
		SM 5310C	BMT	1	PASI-K
		SM 5310C	BMT	1	PASI-K
60471162004	**MW-22-031425**	EPA 200.7	ARMN	6	PASI-K
		EPA 200.7	ARMN	1	PASI-K
		EPA 6010	ARMN	1	PASI-K
		EPA 200.8	JGP	7	PASI-K
		EPA 200.8	JGP	5	PASI-K
		EPA 353.2	CAT	1	PAN
		EPA 365.4	AEC	1	PAN
		SM 2540C	MLD	1	PASI-K
		SM 2320B	ARD	1	PAN
		SM 3500-Fe B#4	DLJ	1	PASI-K
		SM 4500-H+B	DLJ	1	PASI-K
		SM 4500-S-2 D	DLJ	1	PASI-K
		EPA 300.0	AAA, MLD	3	PASI-K
		SM 5310C	BMT	1	PASI-K
		SM 5310C	BMT	1	PASI-K

PAN = Pace National - Mt. Juliet
PASI-K = Pace Analytical Services - Kansas City

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: TEC BASA PERIMETER-DEEP-Revised Report
Pace Project No.: 60471162

Date: June 03, 2025

MW-12D-031425 (Lab ID: 60471162001)
- Wet Chemistry by Method 2320 B-2011 - Endpoint pH 4.5 Headspace

MW-20-031325 (Lab ID: 60471162002)
- Wet Chemistry by Method 2320 B-2011 - Endpoint pH 4.5 Headspace

MW-21-031425 (Lab ID: 60471162003)
- Wet Chemistry by Method 2320 B-2011 - Endpoint pH 4.5 Headspace

MW-22-031425 (Lab ID: 60471162004)
- Wet Chemistry by Method 2320 B-2011 - Endpoint pH 4.5 Headspace

LCS (Lab ID: R4191825-1)
- Wet Chemistry by Method 2320 B-2011 - Endpoint pH 4.5

BLANK (Lab ID: R4191825-2)
- Wet Chemistry by Method 2320 B-2011 - Endpoint pH 4.5

DUP (Lab ID: R4191825-4)
- Wet Chemistry by Method 2320 B-2011 - Endpoint pH 4.5

DUP (Lab ID: R4191825-6)
- Wet Chemistry by Method 2320 B-2011 - Endpoint pH 4.5

LCS (Lab ID: R4191852-1)
- Wet Chemistry by Method 2320 B-2011 - Endpoint pH 4.5

BLANK (Lab ID: R4191852-2)
- Wet Chemistry by Method 2320 B-2011 - Endpoint pH 4.5

DUP (Lab ID: R4191852-3)
- Wet Chemistry by Method 2320 B-2011 - Endpoint pH 4.5

DUP (Lab ID: R4191852-4)
- Wet Chemistry by Method 2320 B-2011 - Endpoint pH 4.5

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PROJECT NARRATIVE

Project: TEC BASA PERIMETER-DEEP-Revised Report
Pace Project No.: 60471162

Method: **EPA 200.7**
Description: 200.7 Metals, Total
Client: Evergy_Haley & Aldrich
Date: June 03, 2025

General Information:
4 samples were analyzed for EPA 200.7 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 200.7 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 928235

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60471159004,60471162002

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 3676593)
  - Calcium
  - Sodium
- MS (Lab ID: 3676595)
  - Calcium
  - Magnesium
  - Sodium
- MSD (Lab ID: 3676594)
  - Calcium
  - Sodium

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA PERIMETER-DEEP-Revised Report
Pace Project No.: 60471162

Method: **EPA 200.7**
Description: 200.7 Metals, Dissolved
Client: Evergy_Haley & Aldrich
Date: June 03, 2025

General Information:
4 samples were analyzed for EPA 200.7 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 200.7 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA PERIMETER-DEEP-Revised Report
Pace Project No.: 60471162

Method: **EPA 6010**
Description: 6010 MET ICP
Client: Evergy_Haley & Aldrich
Date: June 03, 2025

General Information:
4 samples were analyzed for EPA 6010 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA PERIMETER-DEEP-Revised Report
Pace Project No.: 60471162

Method: **EPA 200.8**
Description: 200.8 MET ICPMS
Client: Evergy_Haley & Aldrich
Date: June 03, 2025

General Information:
4 samples were analyzed for EPA 200.8 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 200.8 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 928236

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60471161001,60471162003

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 3676598)
  - Manganese
- MSD (Lab ID: 3676599)
  - Manganese

Additional Comments:

Analyte Comments:

QC Batch: 928236

D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

- MW-12D-031425 (Lab ID: 60471162001)
  - Arsenic, Total Recoverable

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PROJECT NARRATIVE

Project: TEC BASA PERIMETER-DEEP-Revised Report
Pace Project No.: 60471162

Method: **EPA 200.8**
Description: 200.8 MET ICPMS
Client: Evergy_Haley & Aldrich
Date: June 03, 2025

Analyte Comments:

QC Batch: 928236

D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

- MW-12D-031425 (Lab ID: 60471162001)
  - Cobalt, Total Recoverable
  - Molybdenum, Total Recoverable
- MW-20-031325 (Lab ID: 60471162002)
  - Aluminum, Total Recoverable
  - Arsenic, Total Recoverable
  - Cobalt, Total Recoverable
  - Molybdenum, Total Recoverable
- MW-21-031425 (Lab ID: 60471162003)
  - Arsenic, Total Recoverable
  - Cobalt, Total Recoverable
  - Iron, Total Recoverable
  - Molybdenum, Total Recoverable
- MW-22-031425 (Lab ID: 60471162004)
  - Arsenic, Total Recoverable
  - Cobalt, Total Recoverable
  - Molybdenum, Total Recoverable

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PROJECT NARRATIVE

Project: TEC BASA PERIMETER-DEEP-Revised Report
Pace Project No.: 60471162

Method: **EPA 200.8**
Description: 200.8 MET ICPMS, Dissolved
Client: Evergy_Haley & Aldrich
Date: June 03, 2025

General Information:
4 samples were analyzed for EPA 200.8 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 200.8 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: 928239

D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

- MW-12D-031425 (Lab ID: 60471162001)
  - Aluminum, Dissolved
  - Arsenic, Dissolved
  - Cobalt, Dissolved
  - Iron, Dissolved
- MW-20-031325 (Lab ID: 60471162002)
  - Aluminum, Dissolved
  - Arsenic, Dissolved
  - Cobalt, Dissolved
  - Iron, Dissolved

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PROJECT NARRATIVE

Project: TEC BASA PERIMETER-DEEP-Revised Report
Pace Project No.: 60471162

Method: **EPA 200.8**
Description: 200.8 MET ICPMS, Dissolved
Client: Evergy_Haley & Aldrich
Date: June 03, 2025

Analyte Comments:

QC Batch: 928239

D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

- MW-21-031425 (Lab ID: 60471162003)
  - Aluminum, Dissolved
  - Arsenic, Dissolved
  - Cobalt, Dissolved
  - Iron, Dissolved
- MW-22-031425 (Lab ID: 60471162004)
  - Aluminum, Dissolved
  - Arsenic, Dissolved
  - Cobalt, Dissolved

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PROJECT NARRATIVE

Project: TEC BASA PERIMETER-DEEP-Revised Report
Pace Project No.: 60471162

Method: **EPA 353.2**
Description: Wet Chemistry 353.2
Client: Evergy_Haley & Aldrich
Date: June 03, 2025

General Information:
4 samples were analyzed for EPA 353.2 by Pace National Mt. Juliet. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA PERIMETER-DEEP-Revised Report
Pace Project No.: 60471162

Method: **EPA 365.4**
Description: Wet Chemistry 365.4
Client: Evergy_Haley & Aldrich
Date: June 03, 2025

General Information:
4 samples were analyzed for EPA 365.4 by Pace National Mt. Juliet. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA PERIMETER-DEEP-Revised Report
Pace Project No.: 60471162

Method: **SM 2540C**
Description: 2540C Total Dissolved Solids
Client: Evergy_Haley & Aldrich
Date: June 03, 2025

General Information:
4 samples were analyzed for SM 2540C by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

QC Batch: 928612

D6: The precision between the sample and sample duplicate exceeded laboratory control limits.

- DUP (Lab ID: 3678477)
  - Total Dissolved Solids

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA PERIMETER-DEEP-Revised Report
Pace Project No.: 60471162

Method: **SM 2320B**
Description: Wet Chemistry 2320 B-2011
Client: Evergy_Haley & Aldrich
Date: June 03, 2025

General Information:
4 samples were analyzed for SM 2320B by Pace National Mt. Juliet. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA PERIMETER-DEEP-Revised Report
Pace Project No.: 60471162

Method: **SM 3500-Fe B#4**
Description: Iron, Ferrous
Client: Evergy_Haley & Aldrich
Date: June 03, 2025

General Information:
4 samples were analyzed for SM 3500-Fe B#4 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

H6: Analysis initiated outside of the 15 minute EPA required holding time.
- MW-12D-031425 (Lab ID: 60471162001)
- MW-20-031325 (Lab ID: 60471162002)
- MW-21-031425 (Lab ID: 60471162003)
- MW-22-031425 (Lab ID: 60471162004)

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA PERIMETER-DEEP-Revised Report
Pace Project No.: 60471162

Method: **SM 4500-H+B**
Description: 4500H+ pH, Electrometric
Client: Evergy_Haley & Aldrich
Date: June 03, 2025

General Information:
4 samples were analyzed for SM 4500-H+B by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

H1: Analysis conducted outside the EPA method holding time.
- MW-12D-031425 (Lab ID: 60471162001)
- MW-21-031425 (Lab ID: 60471162003)
- MW-22-031425 (Lab ID: 60471162004)

H6: Analysis initiated outside of the 15 minute EPA required holding time.
- MW-12D-031425 (Lab ID: 60471162001)
- MW-20-031325 (Lab ID: 60471162002)
- MW-21-031425 (Lab ID: 60471162003)
- MW-22-031425 (Lab ID: 60471162004)

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA PERIMETER-DEEP-Revised Report
Pace Project No.: 60471162

Method: **SM 4500-S-2 D**
Description: 4500S2D Sulfide, Total
Client: Evergy_Haley & Aldrich
Date: June 03, 2025

General Information:
4 samples were analyzed for SM 4500-S-2 D by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 928087

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60470739002

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 3676019)
  - Sulfide, Total
- MSD (Lab ID: 3676020)
  - Sulfide, Total

QC Batch: 928116

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60471162003

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 3676074)
  - Sulfide, Total
- MSD (Lab ID: 3676075)
  - Sulfide, Total

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA PERIMETER-DEEP-Revised Report
Pace Project No.: 60471162

Method: **EPA 300.0**
Description: 300.0 IC Anions 28 Days
Client: Evergy_Haley & Aldrich
Date: June 03, 2025

General Information:
4 samples were analyzed for EPA 300.0 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

H1: Analysis conducted outside the EPA method holding time.
- MW-21-031425 (Lab ID: 60471162003)
- MW-22-031425 (Lab ID: 60471162004)

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

QC Batch: 930001

L2: Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.
- LCS (Lab ID: 3683705)
  - Fluoride

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA PERIMETER-DEEP-Revised Report
Pace Project No.: 60471162

Method: **SM 5310C**
Description: 5310C TOC
Client: Evergy_Haley & Aldrich
Date: June 03, 2025

General Information:
4 samples were analyzed for SM 5310C by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 929418

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60471159001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 3681048)
  - Total Organic Carbon

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA PERIMETER-DEEP-Revised Report
Pace Project No.: 60471162

Method: **SM 5310C**
Description: 5310C Dissolved Organic Carbon
Client: Evergy_Haley & Aldrich
Date: June 03, 2025

General Information:
4 samples were analyzed for SM 5310C by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: TEC BASA PERIMETER-DEEP-Revised Report
Pace Project No.: 60471162

Sample: MW-12D-031425 **Lab ID: 60471162001** Collected: 03/14/25 09:20 Received: 03/15/25 08:00 Matrix: Water

Parameters	Results	Units	Report Limit	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							
Boron, Total Recoverable	**2.4**	mg/L	0.10	1	03/18/25 09:30	03/25/25 20:42	7440-42-8	
Calcium, Total Recoverable	**167**	mg/L	0.20	1	03/18/25 09:30	03/25/25 20:42	7440-70-2	
Hardness, Magnesium (SM 2340B)	**418**	mg/L	0.21	1	03/18/25 09:30	03/25/25 20:42		
Magnesium, Total Recoverable	**102**	mg/L	0.050	1	03/18/25 09:30	03/25/25 20:42	7439-95-4	
Potassium, Total Recoverable	**16.7**	mg/L	0.50	1	03/18/25 09:30	03/25/25 20:42	7440-09-7	
Sodium, Total Recoverable	**5050**	mg/L	25.0	50	03/18/25 09:30	03/31/25 12:31	7440-23-5	
200.7 Metals, Dissolved	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City							
Magnesium, Dissolved	**104**	mg/L	0.050	1	03/18/25 09:30	03/28/25 15:44	7439-95-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Kansas City							
Lithium, Total Recoverable	**0.18**	mg/L	0.010	1	03/19/25 08:02	03/26/25 13:09	7439-93-2	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City							
Aluminum, Total Recoverable	**0.60**	mg/L	0.50	10	03/18/25 09:30	03/20/25 17:33	7429-90-5	
Arsenic, Total Recoverable	**<0.0050**	mg/L	0.0050	5	03/18/25 09:30	03/20/25 17:03	7440-38-2	D3
Barium, Total Recoverable	**0.069**	mg/L	0.0050	5	03/18/25 09:30	03/20/25 17:03	7440-39-3	
Cobalt, Total Recoverable	**<0.010**	mg/L	0.010	10	03/18/25 09:30	03/20/25 17:33	7440-48-4	D3
Iron, Total Recoverable	**0.96**	mg/L	0.50	10	03/18/25 09:30	03/20/25 17:33	7439-89-6	
Manganese, Total Recoverable	**0.14**	mg/L	0.010	10	03/18/25 09:30	03/20/25 17:33	7439-96-5	
Molybdenum, Total Recoverable	**<0.0050**	mg/L	0.0050	5	03/18/25 09:30	03/20/25 17:03	7439-98-7	D3
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City							
Aluminum, Dissolved	**<0.25**	mg/L	0.25	5	03/18/25 09:30	03/21/25 15:36	7429-90-5	D3
Arsenic, Dissolved	**<0.0050**	mg/L	0.0050	5	03/18/25 09:30	03/21/25 15:36	7440-38-2	D3
Cobalt, Dissolved	**<0.0050**	mg/L	0.0050	5	03/18/25 09:30	03/21/25 15:36	7440-48-4	D3
Iron, Dissolved	**<0.25**	mg/L	0.25	5	03/18/25 09:30	03/21/25 15:36	7439-89-6	D3
Manganese, Dissolved	**0.11**	mg/L	0.0050	5	03/18/25 09:30	03/21/25 15:36	7439-96-5	
Wet Chemistry 353.2	Analytical Method: EPA 353.2 Preparation Method: 353.2 Pace National - Mt. Juliet							
Nitrate-Nitrite (as N)	**5.66**	mg/L	0.400	2	03/21/25 01:46	03/21/25 01:46	7727-37-9	
Wet Chemistry 365.4	Analytical Method: EPA 365.4 Preparation Method: 351.2/365.4 Pace National - Mt. Juliet							
Phosphorus	**<0.100**	mg/L	0.100	1	03/24/25 20:51	03/24/25 22:22	7723-14-0	
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City							
Total Dissolved Solids	**12100**	mg/L	1000	1		03/21/25 15:30		MW

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TEC BASA PERIMETER-DEEP-Revised Report
Pace Project No.: 60471162

Sample: MW-12D-031425 **Lab ID: 60471162001** Collected: 03/14/25 09:20 Received: 03/15/25 08:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Wet Chemistry 2320 B-2011	Analytical Method: SM 2320B Preparation Method: 2320 B-2011 Pace National - Mt. Juliet							
Alkalinity, Total as CaCO3	**181**	mg/L	20.0	1	03/27/25 13:03	03/27/25 13:03		
Iron, Ferrous	Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City							
Iron, Ferrous	**0.22**	mg/L	0.20	1		03/19/25 13:01	15438-31-0	H6
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Kansas City							
pH at 25 Degrees C	**7.4**	Std. Units	0.10	1		03/25/25 16:34		H1,H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D Pace Analytical Services - Kansas City							
Sulfide, Total	**<0.050**	mg/L	0.050	1		03/17/25 13:57	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City							
Chloride	**6840**	mg/L	1000	1000		04/03/25 19:12	16887-00-6	
Fluoride	**0.20**	mg/L	0.20	1		04/02/25 09:47	16984-48-8	L2
Sulfate	**928**	mg/L	100	100		04/02/25 10:15	14808-79-8	
5310C TOC	Analytical Method: SM 5310C Pace Analytical Services - Kansas City							
Total Organic Carbon	**<1.0**	mg/L	1.0	1		04/02/25 20:58	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C Pace Analytical Services - Kansas City							
Dissolved Organic Carbon	**<1.0**	mg/L	1.0	1		03/28/25 23:19		

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ANALYTICAL RESULTS

Project: TEC BASA PERIMETER-DEEP-Revised Report
Pace Project No.: 60471162

Sample: MW-20-031325 **Lab ID: 60471162002** Collected: 03/13/25 14:55 Received: 03/15/25 08:00 Matrix: Water

Parameters	Results	Units	Report Limit	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							
Boron, Total Recoverable	**2.4**	mg/L	0.10	1	03/18/25 09:30	03/25/25 20:44	7440-42-8	
Calcium, Total Recoverable	**141**	mg/L	0.20	1	03/18/25 09:30	03/25/25 20:44	7440-70-2	M1
Hardness, Magnesium (SM 2340B)	**345**	mg/L	0.21	1	03/18/25 09:30	03/25/25 20:44		
Magnesium, Total Recoverable	**83.8**	mg/L	0.050	1	03/18/25 09:30	03/25/25 20:44	7439-95-4	M1
Potassium, Total Recoverable	**16.1**	mg/L	0.50	1	03/18/25 09:30	03/25/25 20:44	7440-09-7	
Sodium, Total Recoverable	**4940**	mg/L	25.0	50	03/18/25 09:30	03/31/25 12:33	7440-23-5	M1
200.7 Metals, Dissolved	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City							
Magnesium, Dissolved	**85.7**	mg/L	0.050	1	03/18/25 09:30	03/28/25 15:46	7439-95-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Kansas City							
Lithium, Total Recoverable	**0.17**	mg/L	0.010	1	03/19/25 08:02	03/26/25 13:11	7439-93-2	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City							
Aluminum, Total Recoverable	**<0.50**	mg/L	0.50	10	03/18/25 09:30	03/20/25 17:38	7429-90-5	D3
Arsenic, Total Recoverable	**<0.0050**	mg/L	0.0050	5	03/18/25 09:30	03/20/25 17:08	7440-38-2	D3
Barium, Total Recoverable	**0.058**	mg/L	0.0050	5	03/18/25 09:30	03/20/25 17:08	7440-39-3	
Cobalt, Total Recoverable	**<0.010**	mg/L	0.010	10	03/18/25 09:30	03/20/25 17:38	7440-48-4	D3
Iron, Total Recoverable	**0.64**	mg/L	0.50	10	03/18/25 09:30	03/20/25 17:38	7439-89-6	
Manganese, Total Recoverable	**0.22**	mg/L	0.010	10	03/18/25 09:30	03/20/25 17:38	7439-96-5	
Molybdenum, Total Recoverable	**<0.0050**	mg/L	0.0050	5	03/18/25 09:30	03/20/25 17:08	7439-98-7	D3
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City							
Aluminum, Dissolved	**<0.25**	mg/L	0.25	5	03/18/25 09:30	03/21/25 15:40	7429-90-5	D3
Arsenic, Dissolved	**<0.0050**	mg/L	0.0050	5	03/18/25 09:30	03/21/25 15:40	7440-38-2	D3
Cobalt, Dissolved	**<0.0050**	mg/L	0.0050	5	03/18/25 09:30	03/21/25 15:40	7440-48-4	D3
Iron, Dissolved	**<0.25**	mg/L	0.25	5	03/18/25 09:30	03/21/25 15:40	7439-89-6	D3
Manganese, Dissolved	**0.21**	mg/L	0.0050	5	03/18/25 09:30	03/21/25 15:40	7439-96-5	
Wet Chemistry 353.2	Analytical Method: EPA 353.2 Preparation Method: 353.2 Pace National - Mt. Juliet							
Nitrate-Nitrite (as N)	**<0.200**	mg/L	0.200	1	03/21/25 01:48	03/21/25 01:48	7727-37-9	
Wet Chemistry 365.4	Analytical Method: EPA 365.4 Preparation Method: 351.2/365.4 Pace National - Mt. Juliet							
Phosphorus	**<0.100**	mg/L	0.100	1	03/24/25 20:51	03/24/25 22:23	7723-14-0	
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City							
Total Dissolved Solids	**13800**	mg/L	1000	1		03/20/25 16:56		

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ANALYTICAL RESULTS

Project: TEC BASA PERIMETER-DEEP-Revised Report
Pace Project No.: 60471162

Sample: MW-20-031325 **Lab ID: 60471162002** Collected: 03/13/25 14:55 Received: 03/15/25 08:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Wet Chemistry 2320 B-2011	Analytical Method: SM 2320B Preparation Method: 2320 B-2011 Pace National - Mt. Juliet							
Alkalinity, Total as CaCO3	**234**	mg/L	20.0	1	03/27/25 13:09	03/27/25 13:09		
Iron, Ferrous	Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City							
Iron, Ferrous	**0.35**	mg/L	0.20	1		03/19/25 13:01	15438-31-0	H6
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Kansas City							
pH at 25 Degrees C	**7.6**	Std. Units	0.10	1		03/25/25 15:21		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D Pace Analytical Services - Kansas City							
Sulfide, Total	**<0.050**	mg/L	0.050	1		03/17/25 13:57	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City							
Chloride	**6130**	mg/L	1000	1000		04/03/25 19:27	16887-00-6	
Fluoride	**0.24**	mg/L	0.20	1		04/02/25 10:29	16984-48-8	L2
Sulfate	**917**	mg/L	100	100		04/02/25 11:24	14808-79-8	
5310C TOC	Analytical Method: SM 5310C Pace Analytical Services - Kansas City							
Total Organic Carbon	**<1.0**	mg/L	1.0	1		04/02/25 21:19	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C Pace Analytical Services - Kansas City							
Dissolved Organic Carbon	**<1.0**	mg/L	1.0	1		03/28/25 23:35		

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ANALYTICAL RESULTS

Project: TEC BASA PERIMETER-DEEP-Revised Report
Pace Project No.: 60471162

Sample: MW-21-031425 **Lab ID: 60471162003** Collected: 03/14/25 11:35 Received: 03/15/25 08:00 Matrix: Water

Parameters	Results	Units	Report Limit	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							
Boron, Total Recoverable	**2.3**	mg/L	0.10	1	03/18/25 09:30	03/25/25 20:47	7440-42-8	
Calcium, Total Recoverable	**174**	mg/L	0.20	1	03/18/25 09:30	03/25/25 20:47	7440-70-2	
Hardness, Magnesium (SM 2340B)	**442**	mg/L	0.21	1	03/18/25 09:30	03/25/25 20:47		
Magnesium, Total Recoverable	**107**	mg/L	0.050	1	03/18/25 09:30	03/25/25 20:47	7439-95-4	
Potassium, Total Recoverable	**18.1**	mg/L	0.50	1	03/18/25 09:30	03/25/25 20:47	7440-09-7	
Sodium, Total Recoverable	**5160**	mg/L	25.0	50	03/18/25 09:30	03/31/25 12:36	7440-23-5	
200.7 Metals, Dissolved	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City							
Magnesium, Dissolved	**111**	mg/L	0.050	1	03/18/25 09:30	03/28/25 15:50	7439-95-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Kansas City							
Lithium, Total Recoverable	**0.19**	mg/L	0.010	1	03/19/25 08:02	03/26/25 13:13	7439-93-2	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City							
Aluminum, Total Recoverable	**<0.50**	mg/L	0.50	10	03/18/25 09:30	03/20/25 17:21	7429-90-5	
Arsenic, Total Recoverable	**<0.0050**	mg/L	0.0050	5	03/18/25 09:30	03/20/25 16:50	7440-38-2	D3
Barium, Total Recoverable	**0.11**	mg/L	0.0050	5	03/18/25 09:30	03/20/25 16:50	7440-39-3	
Cobalt, Total Recoverable	**<0.010**	mg/L	0.010	10	03/18/25 09:30	03/20/25 17:21	7440-48-4	D3
Iron, Total Recoverable	**<0.50**	mg/L	0.50	10	03/18/25 09:30	03/20/25 17:21	7439-89-6	D3
Manganese, Total Recoverable	**0.12**	mg/L	0.010	10	03/18/25 09:30	03/20/25 17:21	7439-96-5	
Molybdenum, Total Recoverable	**<0.0050**	mg/L	0.0050	5	03/18/25 09:30	03/20/25 16:50	7439-98-7	D3
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City							
Aluminum, Dissolved	**<0.25**	mg/L	0.25	5	03/18/25 09:30	03/21/25 15:26	7429-90-5	D3
Arsenic, Dissolved	**<0.0050**	mg/L	0.0050	5	03/18/25 09:30	03/21/25 15:26	7440-38-2	D3
Cobalt, Dissolved	**<0.0050**	mg/L	0.0050	5	03/18/25 09:30	03/21/25 15:26	7440-48-4	D3
Iron, Dissolved	**<0.25**	mg/L	0.25	5	03/18/25 09:30	03/21/25 15:26	7439-89-6	D3
Manganese, Dissolved	**0.10**	mg/L	0.0050	5	03/18/25 09:30	03/21/25 15:26	7439-96-5	
Wet Chemistry 353.2	Analytical Method: EPA 353.2 Preparation Method: 353.2 Pace National - Mt. Juliet							
Nitrate-Nitrite (as N)	**5.37**	mg/L	0.600	3	03/21/25 01:55	03/21/25 01:55	7727-37-9	
Wet Chemistry 365.4	Analytical Method: EPA 365.4 Preparation Method: 351.2/365.4 Pace National - Mt. Juliet							
Phosphorus	**<0.100**	mg/L	0.100	1	03/24/25 20:51	03/24/25 22:24	7723-14-0	
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City							
Total Dissolved Solids	**14400**	mg/L	1000	1		03/21/25 15:30		

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ANALYTICAL RESULTS

Project: TEC BASA PERIMETER-DEEP-Revised Report
Pace Project No.: 60471162

Sample: MW-21-031425 **Lab ID: 60471162003** Collected: 03/14/25 11:35 Received: 03/15/25 08:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Wet Chemistry 2320 B-2011	Analytical Method: SM 2320B Preparation Method: 2320 B-2011 Pace National - Mt. Juliet							
Alkalinity, Total as CaCO3	**183**	mg/L	20.0	1	03/27/25 13:16	03/27/25 13:16		
Iron, Ferrous	Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City							
Iron, Ferrous	**<0.20**	mg/L	0.20	1		03/19/25 13:01	15438-31-0	H6
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Kansas City							
pH at 25 Degrees C	**7.2**	Std. Units	0.10	1		03/25/25 16:34		H1,H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D Pace Analytical Services - Kansas City							
Sulfide, Total	**<0.050**	mg/L	0.050	1		03/18/25 14:56	18496-25-8	M1
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City							
Chloride	**8020**	mg/L	1000	1000		05/23/25 22:09	16887-00-6	H1
Fluoride	**0.21**	mg/L	0.20	1		04/02/25 11:38	16984-48-8	L2
Sulfate	**929**	mg/L	100	100		04/02/25 12:06	14808-79-8	
5310C TOC	Analytical Method: SM 5310C Pace Analytical Services - Kansas City							
Total Organic Carbon	**<1.0**	mg/L	1.0	1		04/02/25 21:40	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C Pace Analytical Services - Kansas City							
Dissolved Organic Carbon	**<1.0**	mg/L	1.0	1		03/28/25 23:50		

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ANALYTICAL RESULTS

Project: TEC BASA PERIMETER-DEEP-Revised Report
Pace Project No.: 60471162

Sample: MW-22-031425 **Lab ID: 60471162004** Collected: 03/14/25 10:20 Received: 03/15/25 08:00 Matrix: Water

Parameters	Results	Units	Report Limit	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							
Boron, Total Recoverable	**2.5**	mg/L	0.10	1	03/18/25 09:30	03/25/25 20:49	7440-42-8	
Calcium, Total Recoverable	**138**	mg/L	0.20	1	03/18/25 09:30	03/25/25 20:49	7440-70-2	
Hardness, Magnesium (SM 2340B)	**341**	mg/L	0.21	1	03/18/25 09:30	03/25/25 20:49		
Magnesium, Total Recoverable	**82.9**	mg/L	0.050	1	03/18/25 09:30	03/25/25 20:49	7439-95-4	
Potassium, Total Recoverable	**16.2**	mg/L	0.50	1	03/18/25 09:30	03/25/25 20:49	7440-09-7	
Sodium, Total Recoverable	**4990**	mg/L	25.0	50	03/18/25 09:30	03/31/25 12:38	7440-23-5	
200.7 Metals, Dissolved	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City							
Magnesium, Dissolved	**82.5**	mg/L	0.050	1	03/18/25 09:30	03/28/25 15:52	7439-95-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Kansas City							
Lithium, Total Recoverable	**0.17**	mg/L	0.010	1	03/19/25 08:02	03/26/25 13:14	7439-93-2	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City							
Aluminum, Total Recoverable	**0.39**	mg/L	0.25	5	03/18/25 09:30	03/20/25 17:13	7429-90-5	
Arsenic, Total Recoverable	**<0.0050**	mg/L	0.0050	5	03/18/25 09:30	03/20/25 17:13	7440-38-2	D3
Barium, Total Recoverable	**0.052**	mg/L	0.0050	5	03/18/25 09:30	03/20/25 17:13	7440-39-3	
Cobalt, Total Recoverable	**<0.0050**	mg/L	0.0050	5	03/18/25 09:30	03/20/25 17:13	7440-48-4	D3
Iron, Total Recoverable	**0.55**	mg/L	0.25	5	03/18/25 09:30	03/20/25 17:13	7439-89-6	
Manganese, Total Recoverable	**0.14**	mg/L	0.0050	5	03/18/25 09:30	03/20/25 17:13	7439-96-5	
Molybdenum, Total Recoverable	**<0.0050**	mg/L	0.0050	5	03/18/25 09:30	03/20/25 17:13	7439-98-7	D3
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City							
Aluminum, Dissolved	**<0.25**	mg/L	0.25	5	03/18/25 09:30	03/21/25 15:43	7429-90-5	D3
Arsenic, Dissolved	**<0.0050**	mg/L	0.0050	5	03/18/25 09:30	03/21/25 15:43	7440-38-2	D3
Cobalt, Dissolved	**<0.0050**	mg/L	0.0050	5	03/18/25 09:30	03/21/25 15:43	7440-48-4	D3
Iron, Dissolved	**0.25**	mg/L	0.25	5	03/18/25 09:30	03/21/25 15:43	7439-89-6	
Manganese, Dissolved	**0.12**	mg/L	0.0050	5	03/18/25 09:30	03/21/25 15:43	7439-96-5	
Wet Chemistry 353.2	Analytical Method: EPA 353.2 Preparation Method: 353.2 Pace National - Mt. Juliet							
Nitrate-Nitrite (as N)	**4.84**	mg/L	0.400	2	03/21/25 01:57	03/21/25 01:57	7727-37-9	
Wet Chemistry 365.4	Analytical Method: EPA 365.4 Preparation Method: 351.2/365.4 Pace National - Mt. Juliet							
Phosphorus	**<0.100**	mg/L	0.100	1	03/24/25 20:51	03/24/25 22:25	7723-14-0	
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City							
Total Dissolved Solids	**12700**	mg/L	1000	1		03/21/25 15:31		MW

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ANALYTICAL RESULTS

Project: TEC BASA PERIMETER-DEEP-Revised Report
Pace Project No.: 60471162

Sample: MW-22-031425 **Lab ID: 60471162004** Collected: 03/14/25 10:20 Received: 03/15/25 08:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Wet Chemistry 2320 B-2011	Analytical Method: SM 2320B Preparation Method: 2320 B-2011 Pace National - Mt. Juliet							
Alkalinity, Total as CaCO3	**197**	mg/L	20.0	1	03/27/25 12:48	03/27/25 12:48		
Iron, Ferrous	Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City							
Iron, Ferrous	**0.62**	mg/L	0.20	1		03/19/25 13:01	15438-31-0	H6
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Kansas City							
pH at 25 Degrees C	**7.5**	Std. Units	0.10	1		03/25/25 16:34		H1,H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D Pace Analytical Services - Kansas City							
Sulfide, Total	**<0.050**	mg/L	0.050	1		03/18/25 14:56	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City							
Chloride	**7570**	mg/L	1000	1000		05/23/25 22:20	16887-00-6	H1
Fluoride	**0.22**	mg/L	0.20	1		04/02/25 12:20	16984-48-8	L2
Sulfate	**1170**	mg/L	100	100		04/02/25 12:47	14808-79-8	
5310C TOC	Analytical Method: SM 5310C Pace Analytical Services - Kansas City							
Total Organic Carbon	**<1.0**	mg/L	1.0	1		04/02/25 22:00	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C Pace Analytical Services - Kansas City							
Dissolved Organic Carbon	**<1.0**	mg/L	1.0	1		03/29/25 00:06		

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QUALITY CONTROL DATA

Project: TEC BASA PERIMETER-DEEP-Revised Report
Pace Project No.: 60471162

QC Batch: 928235
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: 60471162001, 60471162002, 60471162003, 60471162004

METHOD BLANK: 3676591 Matrix: Water
Associated Lab Samples: 60471162001, 60471162002, 60471162003, 60471162004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Boron	mg/L	<0.10	0.10	03/25/25 20:13	
Calcium	mg/L	<0.20	0.20	03/25/25 20:13	
Hardness, Magnesium (SM 2340B)	mg/L	<0.21	0.21	03/25/25 20:13	
Magnesium	mg/L	<0.050	0.050	03/25/25 20:13	
Potassium	mg/L	<0.50	0.50	03/25/25 20:13	
Sodium	mg/L	<0.50	0.50	03/25/25 20:13	

LABORATORY CONTROL SAMPLE: 3676592

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	mg/L	1	0.95	95	85-115	
Calcium	mg/L	10	10.1	101	85-115	
Hardness, Magnesium (SM 2340B)	mg/L	41.2	41.6	101	85-115	
Magnesium	mg/L	10	10.1	101	85-115	
Potassium	mg/L	10	10.2	102	85-115	
Sodium	mg/L	10	10.5	105	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3676593 3676594

Parameter	Units	60471159004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Boron	mg/L	0.96	1	1	2.0	2.0	102	104	70-130	1	20	
Calcium	mg/L	210	10	10	226	229	156	188	70-130	1	20	M1
Hardness, Magnesium (SM 2340B)	mg/L	102000 ug/L	41.2	41.2	147	148	109	113	70-130	1	20	
Magnesium	mg/L	24.7	10	10	35.7	36.0	109	113	70-130	1	20	
Potassium	mg/L	10.9	10	10	21.8	21.9	110	111	70-130	1	20	
Sodium	mg/L	216	10	10	235	238	199	224	70-130	1	20	M1

MATRIX SPIKE SAMPLE: 3676595

Parameter	Units	60471162002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Boron	mg/L	2.4	1	3.3	88	70-130	
Calcium	mg/L	141	10	146	52	70-130	M1
Hardness, Magnesium (SM 2340B)	mg/L	345	41.2	372	66	70-130	
Magnesium	mg/L	83.8	10	90.4	66	70-130	M1

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QUALITY CONTROL DATA

Project: TEC BASA PERIMETER-DEEP-Revised Report
Pace Project No.: 60471162

MATRIX SPIKE SAMPLE: 3676595

Parameter	Units	60471162002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Potassium	mg/L	16.1	10	26.2	101	70-130	
Sodium	mg/L	4940	10	4870	-673	70-130	M1

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QUALITY CONTROL DATA

Project: TEC BASA PERIMETER-DEEP-Revised Report
Pace Project No.: 60471162

QC Batch: 928238
QC Batch Method: EPA 200.7
Analysis Method: EPA 200.7
Analysis Description: 200.7 Metals, Dissolved
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60471162001, 60471162002, 60471162003, 60471162004

METHOD BLANK: 3676603 Matrix: Water
Associated Lab Samples: 60471162001, 60471162002, 60471162003, 60471162004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Magnesium, Dissolved	mg/L	<0.050	0.050	03/28/25 15:16	

LABORATORY CONTROL SAMPLE: 3676604

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Magnesium, Dissolved	mg/L	10	10.7	107	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3676605 3676606

Parameter	Units	60471155003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Magnesium, Dissolved	mg/L	31.0	10	10	41.3	41.2	103	101	70-130	0	20	

MATRIX SPIKE SAMPLE: 3676607

Parameter	Units	60471162002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Magnesium, Dissolved	mg/L	85.7	10	94.4	87	70-130	

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QUALITY CONTROL DATA

Project: TEC BASA PERIMETER-DEEP-Revised Report
Pace Project No.: 60471162

QC Batch: 928236
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: 60471162001, 60471162002, 60471162003, 60471162004

METHOD BLANK: 3676596 Matrix: Water
Associated Lab Samples: 60471162001, 60471162002, 60471162003, 60471162004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	mg/L	<0.050	0.050	03/20/25 11:17	
Arsenic	mg/L	<0.0010	0.0010	03/20/25 11:17	
Barium	mg/L	<0.0010	0.0010	03/20/25 11:17	
Cobalt	mg/L	<0.0010	0.0010	03/20/25 11:17	
Iron	mg/L	<0.050	0.050	03/20/25 11:17	
Manganese	mg/L	<0.0010	0.0010	03/20/25 11:17	
Molybdenum	mg/L	<0.0010	0.0010	03/20/25 11:17	

LABORATORY CONTROL SAMPLE: 3676597

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	mg/L	1	0.97	97	85-115	
Arsenic	mg/L	0.04	0.038	96	85-115	
Barium	mg/L	0.04	0.037	94	85-115	
Cobalt	mg/L	0.04	0.038	96	85-115	
Iron	mg/L	1	0.95	95	85-115	
Manganese	mg/L	0.04	0.039	97	85-115	
Molybdenum	mg/L	0.04	0.039	97	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3676598 3676599

Parameter	Units	60471161001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum	mg/L	275 ug/L	1	1	1.4	1.4	108	113	70-130	4	20	
Arsenic	mg/L	0.0015	0.04	0.04	0.039	0.040	94	96	70-130	2	20	
Barium	mg/L	0.043	0.04	0.04	0.082	0.084	97	102	70-130	2	20	
Cobalt	mg/L	0.010	0.04	0.04	0.049	0.051	96	102	70-130	4	20	
Iron	mg/L	693 ug/L	1	1	1.6	1.6	89	92	70-130	2	20	
Manganese	mg/L	1430 ug/L	0.04	0.04	1.5	1.5	178	212	70-130	1	20	M1
Molybdenum	mg/L	0.0023	0.04	0.04	0.040	0.041	95	98	70-130	3	20	

MATRIX SPIKE SAMPLE: 3676600

Parameter	Units	60471162003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum	mg/L	<0.50	1	1.2	114	70-130	
Arsenic	mg/L	<0.0050	0.04	0.039	93	70-130	

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QUALITY CONTROL DATA

Project: TEC BASA PERIMETER-DEEP-Revised Report
Pace Project No.: 60471162

MATRIX SPIKE SAMPLE: 3676600

Parameter	Units	60471162003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Barium	mg/L	0.11	0.04	0.15	103	70-130	
Cobalt	mg/L	<0.010	0.04	0.041	97	70-130	
Iron	mg/L	<0.50	1	1.0	88	70-130	
Manganese	mg/L	0.12	0.04	0.16	103	70-130	
Molybdenum	mg/L	<0.0050	0.04	0.044	101	70-130	

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QUALITY CONTROL DATA

Project: TEC BASA PERIMETER-DEEP-Revised Report
Pace Project No.: 60471162

QC Batch: 928239
QC Batch Method: EPA 200.8
Analysis Method: EPA 200.8
Analysis Description: 200.8 MET Dissolved
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60471162001, 60471162002, 60471162003, 60471162004

METHOD BLANK: 3676608 Matrix: Water
Associated Lab Samples: 60471162001, 60471162002, 60471162003, 60471162004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	mg/L	<0.050	0.050	03/21/25 13:53	
Arsenic, Dissolved	mg/L	<0.0010	0.0010	03/21/25 13:53	
Cobalt, Dissolved	mg/L	<0.0010	0.0010	03/21/25 13:53	
Iron, Dissolved	mg/L	<0.050	0.050	03/21/25 13:53	
Manganese, Dissolved	mg/L	<0.0010	0.0010	03/21/25 13:53	

LABORATORY CONTROL SAMPLE: 3676609

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	mg/L	1	0.96	96	85-115	
Arsenic, Dissolved	mg/L	0.04	0.038	96	85-115	
Cobalt, Dissolved	mg/L	0.04	0.039	96	85-115	
Iron, Dissolved	mg/L	1	1.0	100	85-115	
Manganese, Dissolved	mg/L	0.04	0.039	97	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3676610 3676611

Parameter	Units	60471155004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum, Dissolved	mg/L	0.064	1	1	1.1	1.1	101	101	70-130	1	20	
Arsenic, Dissolved	mg/L	0.0013	0.04	0.04	0.041	0.041	98	98	70-130	0	20	
Cobalt, Dissolved	mg/L	0.0011	0.04	0.04	0.039	0.040	95	96	70-130	1	20	
Iron, Dissolved	mg/L	0.095	1	1	1.1	1.1	101	101	70-130	0	20	
Manganese, Dissolved	mg/L	0.36	0.04	0.04	0.39	0.40	93	110	70-130	2	20	

MATRIX SPIKE SAMPLE: 3676612

Parameter	Units	60471162003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	mg/L	<0.25	1	1.2	121	70-130	
Arsenic, Dissolved	mg/L	<0.0050	0.04	0.038	92	70-130	
Cobalt, Dissolved	mg/L	<0.0050	0.04	0.042	101	70-130	
Iron, Dissolved	mg/L	<0.25	1	0.90	85	70-130	
Manganese, Dissolved	mg/L	0.10	0.04	0.14	86	70-130	

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QUALITY CONTROL DATA

Project: TEC BASA PERIMETER-DEEP-Revised Report
Pace Project No.: 60471162

QC Batch: 928234
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60471162001, 60471162002, 60471162003, 60471162004

METHOD BLANK: 3676587 Matrix: Water
Associated Lab Samples: 60471162001, 60471162002, 60471162003, 60471162004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lithium	mg/L	<0.010	0.010	03/26/25 12:21	

LABORATORY CONTROL SAMPLE: 3676588

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lithium	mg/L	1	0.99	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3676589 3676590

Parameter	Units	60471191001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lithium	mg/L	0.062	1	1	1.0	1.0	94	95	75-125	1	20	

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QUALITY CONTROL DATA

Project: TEC BASA PERIMETER-DEEP-Revised Report
Pace Project No.: 60471162

QC Batch: 2477394
QC Batch Method: 2320 B-2011
Analysis Method: SM 2320B
Analysis Description: Wet Chemistry 2320 B-2011
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 60471162001, 60471162002, 60471162003

METHOD BLANK: R4191852-2 Matrix: Water
Associated Lab Samples: 60471162001, 60471162002, 60471162003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<20.0	20.0	03/27/25 08:10	

LABORATORY CONTROL SAMPLE: R4191852-1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	100	105	105	90.0-110	

SAMPLE DUPLICATE: R4191852-3

Parameter	Units	L1840169-02 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	164	166	0.719	20	

SAMPLE DUPLICATE: R4191852-4

Parameter	Units	L1840494-04 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	424	422	0.539	20	

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QUALITY CONTROL DATA

Project: TEC BASA PERIMETER-DEEP-Revised Report
Pace Project No.: 60471162

QC Batch: 2477402
QC Batch Method: 2320 B-2011
Analysis Method: SM 2320B
Analysis Description: Wet Chemistry 2320 B-2011
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 60471162004

METHOD BLANK: R4191825-2 Matrix: Water
Associated Lab Samples: 60471162004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<20.0	20.0	03/27/25 08:10	

LABORATORY CONTROL SAMPLE: R4191825-1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	100	101	101	90.0-110	

SAMPLE DUPLICATE: R4191825-4

Parameter	Units	L1840461-01 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	561	559	0.453	20	

SAMPLE DUPLICATE: R4191825-6

Parameter	Units	L1840486-07 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	479	479	0.0990	20	

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QUALITY CONTROL DATA

Project: TEC BASA PERIMETER-DEEP-Revised Report
Pace Project No.: 60471162

QC Batch: 2472916
QC Batch Method: 353.2
Analysis Method: EPA 353.2
Analysis Description: Wet Chemistry 353.2
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 60471162001, 60471162002, 60471162003, 60471162004

METHOD BLANK: R4189305-1 Matrix: Water
Associated Lab Samples: 60471162001, 60471162002, 60471162003, 60471162004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrate-Nitrite (as N)	mg/L	<0.200	0.200	03/21/25 01:09	

LABORATORY CONTROL SAMPLE: R4189305-2

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrate-Nitrite (as N)	mg/L	2.50	2.62	105	90.0-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R4189305-3 R4189305-4

Parameter	Units	L1837729-01 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrate-Nitrite (as N)	mg/L	0.369	2.50	2.50	3.01	2.99	106	105	90.0-110	0.700	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R4189305-5 R4189305-6

Parameter	Units	60471162002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrate-Nitrite (as N)	mg/L	0.0450	2.50	2.50	2.64	2.67	104	105	90.0-110	1.39	20	

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QUALITY CONTROL DATA

Project: TEC BASA PERIMETER-DEEP-Revised Report
Pace Project No.: 60471162

QC Batch: 2475399
QC Batch Method: 351.2/365.4
Analysis Method: EPA 365.4
Analysis Description: Wet Chemistry 365.4
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 60471162001, 60471162002, 60471162003, 60471162004

METHOD BLANK: R4190341-1 Matrix: Water
Associated Lab Samples: 60471162001, 60471162002, 60471162003, 60471162004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Phosphorus	mg/L	<0.100	0.100	03/24/25 22:06	

METHOD BLANK: R4190341-7 Matrix: Water
Associated Lab Samples: 60471162001, 60471162002, 60471162003, 60471162004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Phosphorus	mg/L	<0.100	0.100	03/24/25 22:45	

LABORATORY CONTROL SAMPLE: R4190341-2

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphorus	mg/L	3.37	3.58	106	85.0-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R4190341-3 R4190341-4

Parameter	Units	L1837652-04 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phosphorus	mg/L	ND	2.50	2.50	2.71	2.68	108	107	90.0-110	1.11	20	

SAMPLE DUPLICATE: R4190341-5

Parameter	Units	L1837655-01 Result	Dup Result	RPD	Max RPD	Qualifiers
Phosphorus	mg/L	0.0827	<0.100	11.0	20	

SAMPLE DUPLICATE: R4190341-6

Parameter	Units	L1837681-01 Result	Dup Result	RPD	Max RPD	Qualifiers
Phosphorus	mg/L	ND	<0.100	0.00	20	

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QUALITY CONTROL DATA

Project: TEC BASA PERIMETER-DEEP-Revised Report
Pace Project No.: 60471162

QC Batch: 928612
QC Batch Method: SM 2540C
Analysis Method: SM 2540C
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60471162002

METHOD BLANK: 3677987 Matrix: Water
Associated Lab Samples: 60471162002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<5.0	5.0	03/20/25 16:56	

LABORATORY CONTROL SAMPLE: 3677988

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

SAMPLE DUPLICATE: 3678477

Parameter	Units	60470873006 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1570	1170	29	10	D6

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QUALITY CONTROL DATA

Project: TEC BASA PERIMETER-DEEP-Revised Report
Pace Project No.: 60471162

QC Batch: 928769
QC Batch Method: SM 2540C
Analysis Method: SM 2540C
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60471162001, 60471162003, 60471162004

METHOD BLANK: 3678720 Matrix: Water
Associated Lab Samples: 60471162001, 60471162003, 60471162004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<5.0	5.0	03/21/25 15:30	

LABORATORY CONTROL SAMPLE: 3678721

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

SAMPLE DUPLICATE: 3678722

Parameter	Units	60471113001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	2190	2020	8	10	

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QUALITY CONTROL DATA

Project: TEC BASA PERIMETER-DEEP-Revised Report
Pace Project No.: 60471162

QC Batch: 928269
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: 60471162001, 60471162002, 60471162003, 60471162004

METHOD BLANK: 3676656 Matrix: Water
Associated Lab Samples: 60471162001, 60471162002, 60471162003, 60471162004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron, Ferrous	mg/L	<0.20	0.20	03/19/25 13:01	H6

LABORATORY CONTROL SAMPLE: 3676657

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Ferrous	mg/L	2	2.0	100	90-110	H6

SAMPLE DUPLICATE: 3677354

Parameter	Units	60471162002 Result	Dup Result	RPD	Max RPD	Qualifiers
Iron, Ferrous	mg/L	0.35	0.33	5	20	H6

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QUALITY CONTROL DATA

Project: TEC BASA PERIMETER-DEEP-Revised Report
Pace Project No.: 60471162

QC Batch: 929162
QC Batch Method: SM 4500-H+B
Analysis Method: SM 4500-H+B
Analysis Description: 4500H+B pH
Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60471162002

SAMPLE DUPLICATE: 3680204

Parameter	Units	60471161003 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.9	7.8	2	5	H6

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QUALITY CONTROL DATA

Project: TEC BASA PERIMETER-DEEP-Revised Report
Pace Project No.: 60471162

QC Batch: 929206
QC Batch Method: SM 4500-H+B
Analysis Method: SM 4500-H+B
Analysis Description: 4500H+B pH
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60471162001, 60471162003, 60471162004

SAMPLE DUPLICATE: 3680370

Parameter	Units	60470692001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	8.3	8.3	0	5	H3,H6

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QUALITY CONTROL DATA

Project: TEC BASA PERIMETER-DEEP-Revised Report
Pace Project No.: 60471162

QC Batch: 928087
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: 60471162001, 60471162002

METHOD BLANK: 3676016 Matrix: Water
Associated Lab Samples: 60471162001, 60471162002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide, Total	mg/L	<0.050	0.050	03/17/25 13:57	

LABORATORY CONTROL SAMPLE: 3676017

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: 3676019 3676020

Parameter	Units	60470739002 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	ND	0.5	0.5	0.34	0.34	62	61	75-125	1	20	M1

SAMPLE DUPLICATE: 3676018

Parameter	Units	60470739002 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	ND	<0.050		20	

SAMPLE DUPLICATE: 3676021

Parameter	Units	60470841002 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	0.060	0.063	5	20	

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QUALITY CONTROL DATA

Project: TEC BASA PERIMETER-DEEP-Revised Report
Pace Project No.: 60471162

QC Batch: 928116
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: 60471162003, 60471162004

METHOD BLANK: 3676071 Matrix: Water
Associated Lab Samples: 60471162003, 60471162004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide, Total	mg/L	<0.050	0.050	03/18/25 14:56	

LABORATORY CONTROL SAMPLE: 3676072

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	0.5	0.50	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3676074 3676075

Parameter	Units	60471162003 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	0.085	0.092	16	18	75-125	8	20	M1

SAMPLE DUPLICATE: 3676073

Parameter	Units	60471162003 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	<0.050	<0.050		20	

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QUALITY CONTROL DATA

Project: TEC BASA PERIMETER-DEEP-Revised Report
Pace Project No.: 60471162

QC Batch: 930001
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: 60471162001, 60471162002, 60471162003, 60471162004

METHOD BLANK: 3683704 Matrix: Water
Associated Lab Samples: 60471162001, 60471162002, 60471162003, 60471162004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<1.0	1.0	04/03/25 18:42	
Fluoride	mg/L	<0.20	0.20	04/03/25 18:42	
Sulfate	mg/L	<1.0	1.0	04/03/25 18:42	

LABORATORY CONTROL SAMPLE: 3683705

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	2.2	89	90-110	L2
Sulfate	mg/L	5	4.8	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3683706 3683707

Parameter	Units	60471512001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	12800	5000	5000	18700	18000	117	103	80-120	4	15	CL
Fluoride	mg/L	ND	2500	2500	2830	2690	113	107	80-120	5	15	
Sulfate	mg/L	ND	5000	5000	5110	5130	91	91	80-120	0	15	

MATRIX SPIKE SAMPLE: 3683708

Parameter	Units	60471512002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	4650	2500	7010	94	80-120	
Fluoride	mg/L	ND	1250	1450	116	80-120	
Sulfate	mg/L	ND	2500	2130	85	80-120	

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QUALITY CONTROL DATA

Project: TEC BASA PERIMETER-DEEP-Revised Report
Pace Project No.: 60471162

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: 60471162003, 60471162004

METHOD BLANK: 3711067 Matrix: Water
Associated Lab Samples: 60471162003, 60471162004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<1.0	1.0	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	

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	

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	

SAMPLE DUPLICATE: 3711201

Parameter	Units	60474050002 Result	Dup Result	RPD	Max RPD	Qualifiers
Chloride	mg/L	4.4	4.3	2	15	

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QUALITY CONTROL DATA

Project: TEC BASA PERIMETER-DEEP-Revised Report
Pace Project No.: 60471162

QC Batch: 929418
QC Batch Method: SM 5310C
Analysis Method: SM 5310C
Analysis Description: 5310C Total Organic Carbon
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60471162001, 60471162002, 60471162003, 60471162004

METHOD BLANK: 3681046 Matrix: Water
Associated Lab Samples: 60471162001, 60471162002, 60471162003, 60471162004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	<1.0	1.0	04/02/25 17:36	

LABORATORY CONTROL SAMPLE: 3681047

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	5	4.7	93	80-120	

MATRIX SPIKE SAMPLE: 3681048

Parameter	Units	60471159001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	<1.0	5	4.6	75	80-120	M1

SAMPLE DUPLICATE: 3681049

Parameter	Units	60471159003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Organic Carbon	mg/L	1.7	1.7	0	25	

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QUALITY CONTROL DATA

Project: TEC BASA PERIMETER-DEEP-Revised Report
Pace Project No.: 60471162

QC Batch: 929417
QC Batch Method: SM 5310C
Analysis Method: SM 5310C
Analysis Description: 5310C Dissolved Organic Carbon
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60471162001, 60471162002, 60471162003, 60471162004

METHOD BLANK: 3681042 Matrix: Water
Associated Lab Samples: 60471162001, 60471162002, 60471162003, 60471162004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dissolved Organic Carbon	mg/L	<1.0	1.0	03/28/25 19:27	

LABORATORY CONTROL SAMPLE: 3681043

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	5	5.0	100	80-120	

MATRIX SPIKE SAMPLE: 3681044

Parameter	Units	60471070001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	ND	5	5.1	95	80-120	

SAMPLE DUPLICATE: 3681045

Parameter	Units	60471070003 Result	Dup Result	RPD	Max RPD	Qualifiers
Dissolved Organic Carbon	mg/L	ND	<1.0		25	

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QUALIFIERS

Project: TEC BASA PERIMETER-DEEP-Revised Report
Pace Project No.: 60471162

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.

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TNI - The NELAC Institute.

SAMPLE QUALIFIERS

Sample: 60471162001
[1] Wet Chemistry by Method 2320 B-2011 - Endpoint pH 4.5 Headspace
Sample: 60471162002
[1] Wet Chemistry by Method 2320 B-2011 - Endpoint pH 4.5 Headspace
Sample: 60471162003
[1] Wet Chemistry by Method 2320 B-2011 - Endpoint pH 4.5 Headspace
Sample: 60471162004
[1] Wet Chemistry by Method 2320 B-2011 - Endpoint pH 4.5 Headspace
Sample: R4191825-1
[1] Wet Chemistry by Method 2320 B-2011 - Endpoint pH 4.5
Sample: R4191825-2
[1] Wet Chemistry by Method 2320 B-2011 - Endpoint pH 4.5
Sample: R4191825-4
[1] Wet Chemistry by Method 2320 B-2011 - Endpoint pH 4.5
Sample: R4191825-6
[1] Wet Chemistry by Method 2320 B-2011 - Endpoint pH 4.5

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Lenexa, KS 66219
(913)599-5665

QUALIFIERS

Project: TEC BASA PERIMETER-DEEP-Revised Report
Pace Project No.: 60471162

SAMPLE QUALIFIERS

Sample: R4191852-1
[1] Wet Chemistry by Method 2320 B-2011 - Endpoint pH 4.5
Sample: R4191852-2
[1] Wet Chemistry by Method 2320 B-2011 - Endpoint pH 4.5
Sample: R4191852-3
[1] Wet Chemistry by Method 2320 B-2011 - Endpoint pH 4.5
Sample: R4191852-4
[1] Wet Chemistry by Method 2320 B-2011 - Endpoint pH 4.5
Sample: L1840169-02
[1] Wet Chemistry by Method 2320 B-2011 - Endpoint pH 4.5 Headspace
Sample: L1840461-01
[1] Wet Chemistry by Method 2320 B-2011 - Endpoint pH 4.5 Headspace
Sample: L1840486-07
[1] Wet Chemistry by Method 2320 B-2011 - Endpoint pH 4.5 Headspace
Sample: L1840494-04
[1] Wet Chemistry by Method 2320 B-2011 - Endpoint pH 4.5 Headspace

ANALYTE QUALIFIERS

CL	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.
D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
D6	The precision between the sample and sample duplicate exceeded laboratory control limits.
H1	Analysis conducted outside the EPA method holding time.
H3	Sample was received or analysis requested beyond the recognized method holding time.
H6	Analysis initiated outside of the 15 minute EPA required holding time.
L2	Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.
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.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: TEC BASA PERIMETER-DEEP-Revised Report
Pace Project No.: 60471162

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60471162001	**MW-12D-031425**	EPA 200.7	928235	EPA 200.7	928311
60471162002	**MW-20-031325**	EPA 200.7	928235	EPA 200.7	928311
60471162003	**MW-21-031425**	EPA 200.7	928235	EPA 200.7	928311
60471162004	**MW-22-031425**	EPA 200.7	928235	EPA 200.7	928311
60471162001	**MW-12D-031425**	EPA 200.7	928238	EPA 200.7	928310
60471162002	**MW-20-031325**	EPA 200.7	928238	EPA 200.7	928310
60471162003	**MW-21-031425**	EPA 200.7	928238	EPA 200.7	928310
60471162004	**MW-22-031425**	EPA 200.7	928238	EPA 200.7	928310
60471162001	**MW-12D-031425**	EPA 3010	928234	EPA 6010	928531
60471162002	**MW-20-031325**	EPA 3010	928234	EPA 6010	928531
60471162003	**MW-21-031425**	EPA 3010	928234	EPA 6010	928531
60471162004	**MW-22-031425**	EPA 3010	928234	EPA 6010	928531
60471162001	**MW-12D-031425**	EPA 200.8	928236	EPA 200.8	928312
60471162002	**MW-20-031325**	EPA 200.8	928236	EPA 200.8	928312
60471162003	**MW-21-031425**	EPA 200.8	928236	EPA 200.8	928312
60471162004	**MW-22-031425**	EPA 200.8	928236	EPA 200.8	928312
60471162001	**MW-12D-031425**	EPA 200.8	928239	EPA 200.8	928309
60471162002	**MW-20-031325**	EPA 200.8	928239	EPA 200.8	928309
60471162003	**MW-21-031425**	EPA 200.8	928239	EPA 200.8	928309
60471162004	**MW-22-031425**	EPA 200.8	928239	EPA 200.8	928309
60471162001	**MW-12D-031425**	353.2	2472916	EPA 353.2	2472916
60471162002	**MW-20-031325**	353.2	2472916	EPA 353.2	2472916
60471162003	**MW-21-031425**	353.2	2472916	EPA 353.2	2472916
60471162004	**MW-22-031425**	353.2	2472916	EPA 353.2	2472916
60471162001	**MW-12D-031425**	351.2/365.4	2475399	EPA 365.4	2475399
60471162002	**MW-20-031325**	351.2/365.4	2475399	EPA 365.4	2475399
60471162003	**MW-21-031425**	351.2/365.4	2475399	EPA 365.4	2475399
60471162004	**MW-22-031425**	351.2/365.4	2475399	EPA 365.4	2475399
60471162001	**MW-12D-031425**	SM 2540C	928769		
60471162002	**MW-20-031325**	SM 2540C	928612		
60471162003	**MW-21-031425**	SM 2540C	928769		
60471162004	**MW-22-031425**	SM 2540C	928769		
60471162001	**MW-12D-031425**	2320 B-2011	2477394	SM 2320B	2477394
60471162002	**MW-20-031325**	2320 B-2011	2477394	SM 2320B	2477394
60471162003	**MW-21-031425**	2320 B-2011	2477394	SM 2320B	2477394
60471162004	**MW-22-031425**	2320 B-2011	2477402	SM 2320B	2477402
60471162001	**MW-12D-031425**	SM 3500-Fe B#4	928269		
60471162002	**MW-20-031325**	SM 3500-Fe B#4	928269		
60471162003	**MW-21-031425**	SM 3500-Fe B#4	928269		
60471162004	**MW-22-031425**	SM 3500-Fe B#4	928269		
60471162001	**MW-12D-031425**	SM 4500-H+B	929206		
60471162002	**MW-20-031325**	SM 4500-H+B	929162		

REPORT OF LABORATORY ANALYSIS

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Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: TEC BASA PERIMETER-DEEP-Revised Report
Pace Project No.: 60471162

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60471162003	**MW-21-031425**	SM 4500-H+B	929206		
60471162004	**MW-22-031425**	SM 4500-H+B	929206		
60471162001	**MW-12D-031425**	SM 4500-S-2 D	928087		
60471162002	**MW-20-031325**	SM 4500-S-2 D	928087		
60471162003	**MW-21-031425**	SM 4500-S-2 D	928116		
60471162004	**MW-22-031425**	SM 4500-S-2 D	928116		
60471162001	**MW-12D-031425**	EPA 300.0	930001		
60471162002	**MW-20-031325**	EPA 300.0	930001		
60471162003	**MW-21-031425**	EPA 300.0	930001		
60471162003	**MW-21-031425**	EPA 300.0	936168		
60471162004	**MW-22-031425**	EPA 300.0	930001		
60471162004	**MW-22-031425**	EPA 300.0	936168		
60471162001	**MW-12D-031425**	SM 5310C	929418		
60471162002	**MW-20-031325**	SM 5310C	929418		
60471162003	**MW-21-031425**	SM 5310C	929418		
60471162004	**MW-22-031425**	SM 5310C	929418		
60471162001	**MW-12D-031425**	SM 5310C	929417		
60471162002	**MW-20-031325**	SM 5310C	929417		
60471162003	**MW-21-031425**	SM 5310C	929417		
60471162004	**MW-22-031425**	SM 5310C	929417		

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WO# : 60471162

60471162

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

Client Name: Evergy

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 2.6 Corr. Factor _____ Corrected 2.7

Date and initials of person examining contents: MM 3/15/25

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#: 88727/88728	☑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

60471162

Scan QR Code for instructions

Company Name:	Evergy Kansas Central, Inc.	Contact/Report To:	Jake Humphrey
Street Address:	818 S Kansas Avenue, Topeka, KS 66612	Phone #:	(913)634-0605
		E-Mail:	jake.humphrey@evergy.com
		Cc E-Mail:	skaney@haleyaldrich.com
Customer Project #:			
Project Name:	TEC BASA PERIMETER - DEEP	Invoice To:	Tecumseh Center
		Invoice E-Mail:	evergyap@onlinecapturecenter.com
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	WSTR-2000094802
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [X] CT [ ] ET

County / State origin of sample(s): Kansas

Data Deliverables:
[ ] Level II [ ] Level III [ ] Level IV
[ ] EQUIS
[ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [ ] Yes [X] 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): [X] Yes [ ] No
Analysis: Metals, Dissolved; DOC

* 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 **

2	3	3	2	3	3	3	3	6	3

Identify Container Preservative Type***

2	2	1	1	1	5,6	3	3	4	3

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	200.7/200.8 Diss Metals	200.7/200.8/6010 Total Metals	2320B Alkalinity	2540C Total Dissolved Solids	300.0 Cl,F,SO4,pH	4500S2D Sulfide, Total	5310C Dissolved Organic Carbon	5310C TOC	Iron, Ferrous	NO2NO3, Total Phosphorus	Sample Comment
MW-12D-031425	GW	Grab	-	-	3/14/2025	920	12	-	-	X	X	X	X	X	X	X	X	X	X	
MW-20-031325	GW	Grab	-	-	3/13/2025	1455	12	-	-	X	X	X	X	X	X	X	X	X	X	
MW-21-031425	GW	Grab	-	-	3/14/2025	1135	12	-	-	X	X	X	X	X	X	X	X	X	X	
MW-22-031425	GW	Grab	-	-	3/14/2025	1020	12	-	-	X	X	X	X	X	X	X	X	X	X	

**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: Alice Spiller
AcctNum / Client ID:
Table #:
Profile / Template: 16502
Prelog / Bottle Ord. ID: EZ 3230181

Preservation non-conformance identified for sample.

Additional Instructions from Pace®:
Total Metals; B,Ca,As,Ba,Co,Li,Mo,Mg,Na,k,Al,Fe,Mn, hardness
Dissolved Metals; As,Co,Fe,Al,Mg,Mn
Profile 16502, line 6

Collected By:
(Printed Name) Jason R. Franks
Signature: Jason R. Franks

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)	On Ice:
			2.6	2.7	

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
Jason R. Franks / SCS	03/15/2025 / 8:00		3-15 0800	
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 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/

DC#_Title: ENV-FRM-LENE-0001 v07_Sample Container Count
Effective Date: 7/12/2024

Client: Evergy Profile/EZ # EZ 32301811

Site: TEC BASA Perimeter - Deep 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										2							1	2	1	1		1		1					
2	|		3										2							1	2	1	1		1		1					
3	|		3										2							1	2	1	1		1		1					
4	|		3										2							1	2	1	1		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: 60471162

Internal Transfer Chain of Custody

E006

☐ Rush Multiplier____X
☐ Samples Pre-Logged into eCOC

State Of Origin: KS
Cert. Needed: ☒ Yes ☐ No
Owner Received Date: 3/15/2025 Results Requested By: 3/31/2025

Workorder: 60471162 **Workorder Name:** TEC BASA PERIMETER-DEEP

Report To	Subcontract To
Alice Spiller Pace Analytical Kansas 9608 Loiret Blvd. Lenexa, KS 66219 Phone (913)599-5665	Pace National 12065 Lebanon Rd Mt. Juliet, TN 37122 Phone (615) 758-5858

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers H2SO4	NO2NO3 pres	Total Phosphorus	LAB USE ONLY
1	MW-12D-031425	PS	3/14/2025 09:20	60471162001	Water	1	X	X	-01
2	MW-20-031325	PS	3/13/2025 14:55	60471162002	Water	1	X	X	-02
3	MW-21-031425	PS	3/14/2025 11:35	60471162003	Water	1	X	X	-03
4	MW-22-031425	PS	3/14/2025 10:20	60471162004	Water	1	X	X	-04
5									

LB3 7783

Transfers	Released By	Date/Time	Received By	Date/Time
1			E. Davis IT 3-19-25	1 0900
2				
3				

Comments

KS sample location: 6090-R2-S4A

OK

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.

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	Condition: NCF	√OK
RA Screen <0.5 mR/hr:	√Y N		

TLA9 0.7+0.4=1.1

403364575126

L1837783

INTER_LABORATORY WORK ORDER # 60471162

(To be completed by sending lab)

Ship To:
Pace National
12065 Lebanon Rd
Mt. Juliet, TN 37122
Phone (615) 758-5858

Sending Project No:	60471162
Receiving Project No:	
Check Box for Consolidated Invoice:	☐
Date Prepared:	03/18/25
REQUESTED COMPLETION DATE:	**3/31/2025**

Sending Region	IR60-Kansas	Sending Project Mgr.	Alice Spiller
Receiving Region	IR850-Pace National	External Client	Evergy_Haley & Aldrich
State of Sample Origin	KS	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 YES

WORK REQUESTED

Method Description	Container Type	Quantity of containers	Preservative	Quantity of Samples	Acode	Acode Desc
NO2NO3 pres	BP3S	4	H2SO4	4	SI-21WET	SUB PASI WET
Total Phosphorus	BP3S		H2SO4	4	SI-21WET0	SUB PASI WTA

Special Requirements: Report C, QC Limits (C),Haley & Aldrich Equis (230),PEG Level BR (497)

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.

Internal Transfer Chain of Custody

C170

Pace

☐ Rush Multiplier____X
☐ Samples Pre-Logged into eCOC

State Of Origin: KS
Cert. Needed: ☒ Yes ☐ No
Owner Received Date: 3/15/2025 **Results Requested By:** 3/31/2025

Workorder: 60471162 **Workorder Name:** TEC BASA PERIMETER-DEEP

Report To	Subcontract To
Alice Spiller Pace Analytical Kansas 9608 Loiret Blvd. Lenexa, KS 66219 Phone (913)599-5665	Pace National 12065 Lebanon Rd Mt. Juliet, TN 37122 Phone (615) 758-5858

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers: Unpreserved	Requested Analysis: 2320B Alkalinity	LAB USE ONLY
1	MW-12D-031425	PS	3/14/2025 09:20	60471162001	Water	1	X	-01
2	MW-20-031325	PS	3/13/2025 14:55	60471162002	Water	1	X	-02
3	MW-21-031425	PS	3/14/2025 11:35	60471162003	Water	1	X	-03
4	MW-22-031425	PS	3/14/2025 10:20	60471162004	Water	1	X	-04
5								

Transfers	Released By	Date/Time	Received By	Date/Time
1			Cody Bowden	03/27/2025 0900
2				
3				

Comments

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.

TEMP 3.3+0.4=3.7 4033 6457 9007

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	

Containers: 4

INTER_LABORATORY WORK ORDER # 60471162

(To be completed by sending lab)

Ship To:
Pace National
12065 Lebanon Rd
Mt. Juliet, TN 37122
Phone (615) 758-5858

Sending Project No:	60471162
Receiving Project No:	
Check Box for Consolidated Invoice:	☐
Date Prepared:	03/26/25
REQUESTED COMPLETION DATE:	**3/31/2025**

Sending Region	IR60-Kansas	Sending Project Mgr.	Alice Spiller
Receiving Region	IR850-Pace National	External Client	Evergy_Haley & Aldrich
State of Sample Origin	KS	QC Deliverable	STD REPORT

All questions should be addressed to sending project manager.

Requested Reportable Units _____ Report Wet or Dry Weight? _____ ☐ IRWO Lab Need to run? Cert. Needed Yes

WORK REQUESTED

Method Description	Container Type	Quantity of containers	Preservative	Quantity of Samples	Acode	Acode Desc
2320B Alkalinity	BP3U	4	Unpreserved	4	SI-21WET0	SUB PASI WTA

Special Requirements: Report C, QC Limits (C),Haley & Aldrich Equis (230),PEG Level BR (497)

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.

LOCATION: 6090-R2-S4A

L1840470

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

April 14, 2025

Jake Humphrey
Evergy, Inc.
818 S Kansas Avenue
Topeka, KS 66612

RE: Project: TEC BASA PARIMETER-DEEP RADCHE
Pace Project No.: 60471164

Dear Jake Humphrey:

Enclosed are the analytical results for sample(s) received by the laboratory on March 15, 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 - Greensburg

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

Sincerely,

Alice Spiller

Alice Spiller
alice.spiller@pacelabs.com
(913)599-5665
PM Lab Management

Enclosures

cc: Samantha Kaney, Haley & Aldrich
Melanie Satanek, Haley & Aldrich, Inc.
Adriana Sosa, Haley & Aldrich, Inc.
Nick Williams, Haley Aldrich

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CERTIFICATIONS

Project: TEC BASA PARIMETER-DEEP RADCHE
Pace Project No.: 60471164

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

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SAMPLE SUMMARY

Project: TEC BASA PARIMETER-DEEP RADCHE
Pace Project No.: 60471164

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60471164001	**MW-12D-031425**	Water	03/14/25 09:20	03/15/25 08:00
60471164002	**MW-20-031325**	Water	03/13/25 14:55	03/15/25 08:00
60471164003	**MW-21-031425**	Water	03/14/25 11:35	03/15/25 08:00
60471164004	**MW-22-031425**	Water	03/14/25 10:20	03/15/25 08:00

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SAMPLE ANALYTE COUNT

Project: TEC BASA PARIMETER-DEEP RADCHE
Pace Project No.: 60471164

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60471164001	**MW-12D-031425**	EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
60471164002	**MW-20-031325**	EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
60471164003	**MW-21-031425**	EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
60471164004	**MW-22-031425**	EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

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PROJECT NARRATIVE

Project: TEC BASA PARIMETER-DEEP RADCHE
Pace Project No.: 60471164

Method: **EPA 903.1**
Description: 903.1 Radium 226
Client: Evergy_Haley & Aldrich
Date: April 14, 2025

General Information:
4 samples were analyzed for EPA 903.1 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA PARIMETER-DEEP RADCHE
Pace Project No.: 60471164

Method: **EPA 904.0**
Description: 904.0 Radium 228
Client: Evergy_Haley & Aldrich
Date: April 14, 2025

General Information:
4 samples were analyzed for EPA 904.0 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA PARIMETER-DEEP RADCHE
Pace Project No.: 60471164

Method: **Total Radium Calculation**
Description: Total Radium 228+226
Client: Evergy_Haley & Aldrich
Date: April 14, 2025

General Information:
4 samples were analyzed for Total Radium Calculation by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: TEC BASA PARIMETER-DEEP RADCHE
Pace Project No.: 60471164

Sample: MW-12D-031425 **Lab ID: 60471164001** Collected: 03/14/25 09:20 Received: 03/15/25 08:00 Matrix: Water
PWS: Site ID: Sample Type:

Comments: • The sampler's name and signature were not listed on the COC.

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**5.97 ± 1.24 (0.632) C:NA T:105%**	pCi/L	04/07/25 14:26	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**9.40 ± 1.92 (0.918) C:76% T:83%**	pCi/L	04/07/25 14:46	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**15.4 ± 2.29 (0.918)**	pCi/L	04/08/25 11:48	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: TEC BASA PARIMETER-DEEP RADCHE
Pace Project No.: 60471164

Sample: MW-20-031325 **Lab ID: 60471164002** Collected: 03/13/25 14:55 Received: 03/15/25 08:00 Matrix: Water
PWS: Site ID: Sample Type:

Comments: • The sampler's name and signature were not listed on the COC.

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**4.67 ± 1.08 (0.622) C:NA T:96%**	pCi/L	04/07/25 14:26	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**7.44 ± 1.55 (0.831) C:76% T:92%**	pCi/L	04/07/25 14:46	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**12.1 ± 1.89 (0.831)**	pCi/L	04/08/25 11:48	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: TEC BASA PARIMETER-DEEP RADCHE
Pace Project No.: 60471164

Sample: MW-21-031425 **Lab ID: 60471164003** Collected: 03/14/25 11:35 Received: 03/15/25 08:00 Matrix: Water
PWS: Site ID: Sample Type:

Comments: • The sampler's name and signature were not listed on the COC.

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**9.07 ± 1.66 (0.432) C:NA T:94%**	pCi/L	04/07/25 14:26	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**9.24 ± 1.85 (0.717) C:78% T:88%**	pCi/L	04/07/25 14:46	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**18.3 ± 2.49 (0.717)**	pCi/L	04/08/25 11:48	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: TEC BASA PARIMETER-DEEP RADCHE
Pace Project No.: 60471164

Sample: MW-22-031425 **Lab ID: 60471164004** Collected: 03/14/25 10:20 Received: 03/15/25 08:00 Matrix: Water
PWS: Site ID: Sample Type:

Comments: • The sampler's name and signature were not listed on the COC.

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**3.34 ± 0.892 (0.612) C:NA T:96%**	pCi/L	04/07/25 14:26	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**8.78 ± 1.78 (0.732) C:79% T:88%**	pCi/L	04/07/25 14:46	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**12.1 ± 1.99 (0.732)**	pCi/L	04/08/25 11:48	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: TEC BASA PARIMETER-DEEP RADCHE
Pace Project No.: 60471164

QC Batch: 733954
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: 60471164001, 60471164002, 60471164003, 60471164004

METHOD BLANK: 3572684 Matrix: Water
Associated Lab Samples: 60471164001, 60471164002, 60471164003, 60471164004

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.104 ± 0.226 (0.417) C:NA T:95%	pCi/L	04/07/25 14:26	

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

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QUALITY CONTROL - RADIOCHEMISTRY

Project: TEC BASA PARIMETER-DEEP RADCHE
Pace Project No.: 60471164

QC Batch: 733958
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: 60471164001, 60471164002, 60471164003, 60471164004

METHOD BLANK: 3572693 Matrix: Water
Associated Lab Samples: 60471164001, 60471164002, 60471164003, 60471164004

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.825 ± 0.398 (0.681) C:80% T:89%	pCi/L	04/07/25 14:46	

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

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QUALIFIERS

Project: TEC BASA PARIMETER-DEEP RADCHE
Pace Project No.: 60471164

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.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: TEC BASA PARIMETER-DEEP RADCHE
Pace Project No.: 60471164

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60471164001	**MW-12D-031425**	EPA 903.1	733954		
60471164002	**MW-20-031325**	EPA 903.1	733954		
60471164003	**MW-21-031425**	EPA 903.1	733954		
60471164004	**MW-22-031425**	EPA 903.1	733954		
60471164001	**MW-12D-031425**	EPA 904.0	733958		
60471164002	**MW-20-031325**	EPA 904.0	733958		
60471164003	**MW-21-031425**	EPA 904.0	733958		
60471164004	**MW-22-031425**	EPA 904.0	733958		
60471164001	**MW-12D-031425**	Total Radium Calculation	738076		
60471164002	**MW-20-031325**	Total Radium Calculation	738076		
60471164003	**MW-21-031425**	Total Radium Calculation	738076		
60471164004	**MW-22-031425**	Total Radium Calculation	738076		

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Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-LENE-0009_Sam	WO# : 60471164
	Revision: 2	Effective Date: 01/12/

Client Name: Evergy

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** 1.2 **Corr. Factor** _____ **Corrected** 1.3

Date and initials of person examining contents: MM 3/15/25

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#:** 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® 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

60471164

Scan QR Code for instructions

Company Name:	Evergy Kansas Central, Inc.	Contact/Report To:	Jake Humphrey
Street Address:	818 S Kansas Avenue, Topeka, KS 66612	Phone #:	(913)634-0605
		E-Mail:	jake.humphrey@evergy.com
		Cc E-Mail:	skaney@haleyaldrich.com
Customer Project #:			
Project Name:	TEC BASA PERIMETER - DEEP RADCHEM	Invoice To:	Tecumseh Center
		Invoice E-Mail:	evergyap@onlinecapturecenter.com
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	WSTR-2000094802
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [X] CT [ ] ET

County / State origin of sample(s): Kansas

Data Deliverables:
[ ] Level II [ ] Level III [ ] Level IV
[ ] EQUIS
[ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [ ] Yes [X] 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 [X] 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	Radium 226	Radium 228+combined+QC Sheets
MW-12D-031425	GW	Grab	-	-	3/14/2025	920	2	-	-	X	X
MW-20-031325	GW	Grab	-	-	3/13/2025	1455	2	-	-	X	X
MW-21-031425	GW	Grab	-	-	3/14/2025	1135	2	-	-	X	X
MW-22-031425	GW	Grab	-	-	3/14/2025	1020	2	-	-	X	X

Specify Container Size **: 1 1
Identify Container Preservative Type***: 2 2
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: Alice Spiller
AcctNum / Client ID:
Table #:
Profile / Template: 16502
Prelog / Bottle Ord. ID: EZ 3230187

Sample Comment

Preservation non-conformance identified for sample:

Additional Instructions from Pace®:
Profile 16502, line 7

Collected By: (Printed Name) Jason R. Franks
Signature: Jason R. Franks

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)	On Ice:
			1.2	1.3	

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
Jason R. Franks / SCS	03/15/2025 / 8:00			
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time: 3-15 0800	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 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 ©

DC#_Title: ENV-FRM-LENE-0001 v07_Sample Container Count
Effective Date: 7/12/2024

Client: Evergy Profile/EZ # ez 3230187

Site: Perimeter - Deep Radchem 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																					2222										
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:

WO#: 60471164
PM: AS Due Date: 04/14/25
CLIENT: Evergy_Haley

Internal Transfer Chain of Custody

☐ Rush Multiplier_____X State Of Origin: KS

☒ Samples Pre-Logged into eCOC Cert. Needed: ☒ Yes ☐ No

Workorder: 60471164 **Workorder Name:** TEC BASA PARIMETER-DEEP RADCHE **Owner Received Date:** 3/15/2025 **Results Requested By:** 4/14/2025

Report To	Subcontract To
Alice Spiller Pace Analytical Kansas 9608 Loiret Blvd. Lenexa, KS 66219 Phone (913)599-5665	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	QC Sheets	Radium 226	Radium 228 and Combined	LAB USE ONLY
1	MW-12D-031425	PS	3/14/2025 09:20	60471164001	Water	2	X	X	X	001
2	MW-20-031325	PS	3/13/2025 14:55	60471164002	Water	2	X	X	X	002
3	MW-21-031425	PS	3/14/2025 11:35	60471164003	Water	2	X	X	X	003
4	MW-22-031425	PS	3/14/2025 10:20	60471164004	Water	2	X	X	X	004
5										

Transfers	Released By	Date/Time	Received By	Date/Time
1			[signature]	3.18.25 EDC
2				
3				

Comments

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# : 30764189

30764189

Pace ANALYTICAL SERVICES

DC#_Title: ENV-FRM-GBUR-0088 v07_Sam Greensburg

Effective Date: 01/04/2024

WO# : 30764189

PM: CMC Due Date: 03/28/25

CLIENT: PACE_60_LEKS

Client Name: Pace-KS

Courier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other

Tracking Number: 4033 6457 4428

Initial / Date

Examined By: VB 3-18-25

Labeled By: VB 3-18-25

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

Comments:	Yes	No	NA	pH paper Lot# 10033241 / D.P.D. Residual Chlorine Lot #
Chain of Custody Present	X			1.
Chain of Custody Filled Out:	X			2.
-Were client corrections present on COC		X		
Chain of Custody Relinquished		X		3.
Sampler Name & Signature on COC:		X		4.
Sample Labels match COC:	X			5.
-Includes date/time/ID				
Matrix: WT				
Samples Arrived within Hold Time:	X			6.
Short Hold Time Analysis (<72hr remaining):		X		7.
Rush Turn Around Time Requested:		X		8.
Sufficient Volume:	X			9.
Correct Containers Used:	X			10.
-Pace Containers Used	X			
Containers Intact:	X			11.
Orthophosphate field filtered:			X	12.
Hex Cr Aqueous samples field filtered:			X	13.
Organic Samples checked for dichlorination			X	14:
Filtered volume received for dissolved tests:			X	15:
All containers checked for preservation:	X			16.
exceptions: VOA, coliform, TOC, O&G, Phenolics, Radon, non-aqueous matrix				pH<2
All containers meet method preservation requirements:	X			Initial when completed VB / Date/Time of Preservation / Lot# of added Preservative
8260C/D: Headspace in VOA Vials (> 6mm)			X	17.
624.1: Headspace in VOA Vials (0mm)			X	18.
Radon: Headspace in RAD Vials (0mm)			X	19.
Trip Blank Present:			X	Trip blank custody seal present? YES or NO
Rad Samples Screened <.05 mrem/hr.	✓			Initial when completed [illegible] / Date: 3.18.25 / Survey Meter SN: 2501438

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

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Test:	Ra-226
Analyst:	LL1
Date:	3/20/2025
Batch ID:	84141
Matrix:	

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3572684
MB concentration:	0.104
	0.226
MB MDC:	0.417
MB Numerical Performance Indicator:	0.90
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS84141	**LCSD84141**
Count Date:	4/7/2025	4/7/2025
Spike I.D.:	24-046	24-046
Spike Concentration (pCi/mL):	31.832	31.832
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.653	0.651
Target Conc. (pCi/L, g, F):	4.873	4.887
Uncertainty (Calculated):	0.229	0.230
Result (pCi/L, g, F):	5.608	5.811
	1.140	1.152
Numerical Performance Indicator:	1.24	1.54
Percent Recovery:	115.07%	118.89%
Status vs Numerical Indicator:	Pass	Pass
Status vs Recovery:	N/A	N/A
Upper % Recovery Limits:	133%	133%
Lower % Recovery Limits:	73%	73%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Matrix Spike Result:		
Sample Matrix Spike Duplicate Result:		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS84141	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD84141	
Sample Result (pCi/L, g, F):	5.608	
	1.140	
Sample Duplicate Result (pCi/L, g, F):	5.811	
	1.152	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	-0.245	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	3.27%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	N/A	
% RPD Limit:	32%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Sample Matrix Spike Duplicate Result:		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the RL.

Comments:

CLM 4/7/25

RLS 4-8-25

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test:	Ra-228
Analyst:	JJS1
Date:	4/1/2025
Worklist:	84142
Matrix:	WT

Method Blank Assessment	
MB Sample ID	3572693
MB concentration:	0.825
M/B 2 Sigma CSU:	0.398
MB MDC:	0.681
MB Numerical Performance Indicator:	4.06
MB Status vs Numerical Indicator:	Fail*
MB Status vs. MDC:	See Comment*

✓

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS84142	**LCSD84142**
Count Date:	4/7/2025	4/7/2025
Spike I.D.:	23-043	23-043
Decay Corrected Spike Concentration (pCi/mL):	32.985	32.985
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.817	0.819
Target Conc. (pCi/L, g, F):	4.036	4.029
Uncertainty (Calculated):	0.198	0.197
Result (pCi/L, g, F):	3.510	4.173
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.868	0.964
Numerical Performance Indicator:	-1.16	0.29
Percent Recovery:	86.96%	103.58%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS84142	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD84142	
Sample Result (pCi/L, g, F):	3.510	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.868	
Sample Duplicate Result (pCi/L, g, F):	4.173	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.964	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	-1.003	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	17.44%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	36%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:
*The method blank result is below the reporting limit for this analysis and is acceptable. ✓

VAL
4/8/25

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

April 14, 2025

Jake Humphrey
Evergy, Inc.
818 S Kansas Avenue
Topeka, KS 66612

RE: Project: TEC BASA PERIMETER-SHALLOW RAD
Pace Project No.: 60471165

Dear Jake Humphrey:

Enclosed are the analytical results for sample(s) received by the laboratory on March 15, 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 - Greensburg

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

Sincerely,

Alice Spiller

Alice Spiller
alice.spiller@pacelabs.com
(913)599-5665
PM Lab Management

Enclosures

cc: Samantha Kaney, Haley & Aldrich
Melanie Satanek, Haley & Aldrich, Inc.
Adriana Sosa, Haley & Aldrich, Inc.
Nick Williams, Haley Aldrich

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

CERTIFICATIONS

Project: TEC BASA PERIMETER-SHALLOW RAD
Pace Project No.: 60471165

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

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Lenexa, KS 66219
(913)599-5665

SAMPLE SUMMARY

Project: TEC BASA PERIMETER-SHALLOW RAD
Pace Project No.: 60471165

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60471165001	**MW-15-031325**	Water	03/13/25 12:50	03/15/25 08:00
60471165002	**MW-16-031325**	Water	03/13/25 11:30	03/15/25 08:00
60471165003	**MW-17-031325**	Water	03/13/25 09:50	03/15/25 08:00
60471165004	**MW-18-031225**	Water	03/12/25 12:45	03/15/25 08:00
60471165005	**MW-19-031225**	Water	03/12/25 14:55	03/15/25 08:00
60471165006	**TEC-BASA-PERIMETER-DUP-031225**	Water	03/12/25 12:45	03/15/25 08:00

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Lenexa, KS 66219
(913)599-5665

SAMPLE ANALYTE COUNT

Project: TEC BASA PERIMETER-SHALLOW RAD
Pace Project No.: 60471165

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60471165001	**MW-15-031325**	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
60471165002	**MW-16-031325**	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
60471165003	**MW-17-031325**	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
60471165004	**MW-18-031225**	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
60471165005	**MW-19-031225**	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
60471165006	**TEC-BASA-PERIMETER-DUP-031225**	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

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

PROJECT NARRATIVE

Project: TEC BASA PERIMETER-SHALLOW RAD
Pace Project No.: 60471165

Method: **EPA 903.1**
Description: 903.1 Radium 226
Client: Evergy_Haley & Aldrich
Date: April 14, 2025

General Information:
6 samples were analyzed for EPA 903.1 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA PERIMETER-SHALLOW RAD
Pace Project No.: 60471165

Method: **EPA 904.0**
Description: 904.0 Radium 228
Client: Evergy_Haley & Aldrich
Date: April 14, 2025

General Information:
6 samples were analyzed for EPA 904.0 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA PERIMETER-SHALLOW RAD
Pace Project No.: 60471165

Method: **Total Radium Calculation**
Description: Total Radium 228+226
Client: Evergy_Haley & Aldrich
Date: April 14, 2025

General Information:
6 samples were analyzed for Total Radium Calculation by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: TEC BASA PERIMETER-SHALLOW RAD
Pace Project No.: 60471165

Sample: MW-15-031325 **Lab ID: 60471165001** Collected: 03/13/25 12:50 Received: 03/15/25 08:00 Matrix: Water
PWS: Site ID: Sample Type:

Comments: • The sampler's name and signature were not listed on the COC.

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.178 ± 0.523 (0.947) C:NA T:96%**	pCi/L	04/08/25 13:17	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**1.98 ± 0.601 (0.748) C:74% T:88%**	pCi/L	04/07/25 12:38	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**2.16 ± 0.797 (0.947)**	pCi/L	04/08/25 16:22	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: TEC BASA PERIMETER-SHALLOW RAD
Pace Project No.: 60471165

Sample: MW-16-031325 **Lab ID: 60471165002** Collected: 03/13/25 11:30 Received: 03/15/25 08:00 Matrix: Water
PWS: Site ID: Sample Type:

Comments: • The sampler's name and signature were not listed on the COC.

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.263 ± 0.516 (0.916) C:NA T:78%**	pCi/L	04/08/25 13:17	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**1.66 ± 0.747 (1.28) C:70% T:67%**	pCi/L	04/07/25 12:38	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.92 ± 0.908 (1.28)**	pCi/L	04/08/25 16:22	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: TEC BASA PERIMETER-SHALLOW RAD
Pace Project No.: 60471165

Sample: MW-17-031325 **Lab ID: 60471165003** Collected: 03/13/25 09:50 Received: 03/15/25 08:00 Matrix: Water
PWS: Site ID: Sample Type:

Comments: • The sampler's name and signature were not listed on the COC.

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.276 ± 0.542 (0.953) C:NA T:93%**	pCi/L	04/08/25 13:17	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**1.58 ± 0.609 (0.967) C:67% T:90%**	pCi/L	04/07/25 12:38	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.86 ± 0.815 (0.967)**	pCi/L	04/08/25 16:22	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: TEC BASA PERIMETER-SHALLOW RAD
Pace Project No.: 60471165

Sample: MW-18-031225 **Lab ID: 60471165004** Collected: 03/12/25 12:45 Received: 03/15/25 08:00 Matrix: Water
PWS: Site ID: Sample Type:

Comments: • The sampler's name and signature were not listed on the COC.

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.297 ± 0.506 (0.878) C:NA T:98%**	pCi/L	04/08/25 13:17	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.646 ± 0.392 (0.727) C:78% T:85%**	pCi/L	04/07/25 12:38	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.943 ± 0.640 (0.878)**	pCi/L	04/08/25 16:22	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: TEC BASA PERIMETER-SHALLOW RAD
Pace Project No.: 60471165

Sample: MW-19-031225 **Lab ID: 60471165005** Collected: 03/12/25 14:55 Received: 03/15/25 08:00 Matrix: Water
PWS: Site ID: Sample Type:

Comments: • The sampler's name and signature were not listed on the COC.

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.361 ± 0.617 (1.07) C:NA T:95%**	pCi/L	04/08/25 13:17	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.929 ± 0.398 (0.624) C:75% T:90%**	pCi/L	04/07/25 12:39	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.29 ± 0.734 (1.07)**	pCi/L	04/08/25 16:22	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: TEC BASA PERIMETER-SHALLOW RAD
Pace Project No.: 60471165

Sample: TEC-BASA-PERIMETER-DUP-031225 **Lab ID: 60471165006** Collected: 03/12/25 12:45 Received: 03/15/25 08:00 Matrix: Water
PWS: Site ID: Sample Type:
Comments: • The sampler's name and signature were not listed on the COC.

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
		Pace Analytical Services - Greensburg				
Radium-226	EPA 903.1	**0.421 ± 0.498 (0.821) C:NA T:93%**	pCi/L	04/08/25 13:17	13982-63-3	
		Pace Analytical Services - Greensburg				
Radium-228	EPA 904.0	**0.753 ± 0.370 (0.624) C:77% T:89%**	pCi/L	04/07/25 12:39	15262-20-1	
		Pace Analytical Services - Greensburg				
Total Radium	Total Radium Calculation	**1.17 ± 0.620 (0.821)**	pCi/L	04/08/25 16:22	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: TEC BASA PERIMETER-SHALLOW RAD
Pace Project No.: 60471165

QC Batch: 733965
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: 60471165001, 60471165002, 60471165003, 60471165004, 60471165005, 60471165006

METHOD BLANK: 3572717 Matrix: Water
Associated Lab Samples: 60471165001, 60471165002, 60471165003, 60471165004, 60471165005, 60471165006

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.627 ± 0.350 (0.620) C:74% T:90%	pCi/L	04/07/25 12:38	

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.

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QUALITY CONTROL - RADIOCHEMISTRY

Project: TEC BASA PERIMETER-SHALLOW RAD
Pace Project No.: 60471165

QC Batch: 733964
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: 60471165001, 60471165002, 60471165003, 60471165004, 60471165005, 60471165006

METHOD BLANK: 3572716 Matrix: Water
Associated Lab Samples: 60471165001, 60471165002, 60471165003, 60471165004, 60471165005, 60471165006

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0687 ± 0.233 (0.450) C:NA T:93%	pCi/L	04/08/25 13:17	

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.

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QUALIFIERS

Project: TEC BASA PERIMETER-SHALLOW RAD
Pace Project No.: 60471165

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.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: TEC BASA PERIMETER-SHALLOW RAD
Pace Project No.: 60471165

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60471165001	**MW-15-031325**	EPA 903.1	733964		
60471165002	**MW-16-031325**	EPA 903.1	733964		
60471165003	**MW-17-031325**	EPA 903.1	733964		
60471165004	**MW-18-031225**	EPA 903.1	733964		
60471165005	**MW-19-031225**	EPA 903.1	733964		
60471165006	**TEC-BASA-PERIMETER-DUP-031225**	EPA 903.1	733964		
60471165001	**MW-15-031325**	EPA 904.0	733965		
60471165002	**MW-16-031325**	EPA 904.0	733965		
60471165003	**MW-17-031325**	EPA 904.0	733965		
60471165004	**MW-18-031225**	EPA 904.0	733965		
60471165005	**MW-19-031225**	EPA 904.0	733965		
60471165006	**TEC-BASA-PERIMETER-DUP-031225**	EPA 904.0	733965		
60471165001	**MW-15-031325**	Total Radium Calculation	738206		
60471165002	**MW-16-031325**	Total Radium Calculation	738206		
60471165003	**MW-17-031325**	Total Radium Calculation	738206		
60471165004	**MW-18-031225**	Total Radium Calculation	738206		
60471165005	**MW-19-031225**	Total Radium Calculation	738206		
60471165006	**TEC-BASA-PERIMETER-DUP-031225**	Total Radium Calculation	738206		

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WO# : 60471165

60471165

Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-LENE-0009_Sa	Sample Receipt (SCUR)
	Revision: 2	Effective Date: 01/1[illegible] Issued By: Lenexa

Client Name: Evergy

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** 22.1 **Corr. Factor** _____ **Corrected** 22.2

Date and initials of person examining contents: MM 3/15/25

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#:** 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® 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

60471165

Scan QR Code for instructions

Company Name:	Evergy Kansas Central, Inc.	Contact/Report To:	Jake Humphrey
Street Address:	818 S Kansas Avenue, Topeka, KS 66612	Phone #:	(913)634-0605
		E-Mail:	jake.humphrey@evergy.com
		Cc E-Mail:	skaney@haleyaldrich.com
Customer Project #:			
Project Name:	TEC BASA PERIMETER - SHALLOW RADCHEM	Invoice To:	Tecumseh Center
		Invoice E-Mail:	evergyap@onlinecapturecenter.com
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	WSTR-2000094802
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [X] CT [ ] ET

County / State origin of sample(s): Kansas

Data Deliverables: [ ] Level II [ ] Level III [ ] Level IV [ ] EQUIS [ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [ ] Yes [X] 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 [X] 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

Identify Container Preservative Type***: 2 2

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	Radium 226	Radium 228+combined+QC Sheets	Sample Comment
MW-15-031325	GW	Grab	-	-	3/13/2025	1250	2	-	-	X	X	
MW-16-031325	GW	Grab	-	-	3/13/2025	1130	2	-	-	X	X	
MW-17-031325	GW	Grab	-	-	3/13/2025	950	2	-	-	X	X	
MW-18-031225	GW	Grab	-	-	3/12/2025	1245	2	-	-	X	X	
MW-19-031225	GW	Grab	-	-	3/12/2025	1455	2	-	-	X	X	
TEC-BASA-PERIMETER-DUP-031225	GW	Grab	-	-	3/12/2025	1245	2	-	-	X	X	

**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: Alice Spiller
AcctNum / Client ID:
Table #:
Profile / Template: 16502
Prelog / Bottle Ord. ID: EZ 3230180

Preservation non-conformance identified for sample.

Additional Instructions from Pace®:
Profile 16502, line 7

Collected By: (Printed Name) Jason R. Franks
Signature: Jason R. Franks

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)	On Ice:
			22.1	22.2	

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Jason R. Franks / SCS	03/15/2025 / 8:00		3-15 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: 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/

DC#_Title: ENV-FRM-LENE-0001 v07_Sample Container Count
Effective Date: 7/12/2024

Client: Evergy

Profile/EZ # EZ 3230180

Site: Perimeter - Shallow Redchem

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	|																				2										
3	|																				2										
4	|																				2										
5	|																				2										
6	|																				2										
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#: 60471165**

PM: AS **Due Date: 04/14/25**

CLIENT: Evergy_Haley

Internal Transfer Chain of Custody

Pace

☐ Rush Multiplier____X State Of Origin: KS

☒ Samples Pre-Logged into eCOC Cert. Needed: ☒ Yes ☐ No

Workorder: 60471165 **Workorder Name:** TEC BASA PERIMETER-SHALLOW RAD **Owner Received Date:** 3/15/2025 **Results Requested By:** 4/14/2025

Report To	Subcontract To
Alice Spiller Pace Analytical Kansas 9608 Loiret Blvd. Lenexa, KS 66219 Phone (913)599-5665	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						QC Sheets	Radium 226	Radium 228 and Combined										LAB USE ONLY
						Requested Analysis																		
1	MW-15-031325	PS	3/13/2025 12:50	60471165001	Water	2						X	X	X										001
2	MW-16-031325	PS	3/13/2025 11:30	60471165002	Water	2						X	X	X										002
3	MW-17-031325	PS	3/13/2025 09:50	60471165003	Water	2						X	X	X										003
4	MW-18-031225	PS	3/12/2025 12:45	60471165004	Water	2						X	X	X										004
5	MW-19-031225	PS	3/12/2025 14:55	60471165005	Water	2						X	X	X										005
6	TEC-BASA-PERIMETER-DUP-031225	PS	3/12/2025 12:45	60471165006	Water	2						X	X	X										006

Transfers	Released By	Date/Time	Received By	Date/Time
1			BKell	3.18.25 1000
2				
3				

Comments

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# : 30764202

30764202

DC#_Title: ENV-FRM-GBUR-0088 v07_Sample Con
Greensburg

Effective Date: 01/04/2024

WO# : 30764202

PM: CMC Due Date: 03/28/25
CLIENT: PACE_60_LEKS

Client Name: Pace Analytical Kansas JM 3/18/25 **Project**

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace ☐ Other

Tracking Number: 4033 6457 4400

Initial / Date	
Examined By:	3/18/25
Labeled By:	JML 3/18/25
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# 10013241 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: exceptions: VOA, coliform, TOC, O&G, Phenolics, Radon, non-aqueous matrix	✓			16. PJC2
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 SC Date: 3.18.25 Survey Meter SN: 3514380

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

Quality Control Sample Performance Assessment

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test:	Ra-226
Analyst:	CLM
Date:	3/20/2025
Batch ID:	84143
Matrix:	wt

Method Blank Assessment	
MB Sample ID	3572716
MB concentration:	0.069
M/B 2 Sigma CSU:	0.233
MB MDC:	0.450
MB Numerical Performance Indicator:	0.58
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	N/A

Laboratory Control Sample Assessment	LCSD (Y or N)?	y
	LCS84143	**LCSD84143**
Count Date:	4/8/2025	4/8/2025
Spike I.D.:	24-046	24-046
Spike Concentration (pCi/mL):	31.832	31.832
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.655	0.654
Target Conc. (pCi/L, g, F):	4.861	4.868
Uncertainty (Calculated):	0.228	0.229
Result (pCi/L, g, F):	4.730	4.008
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	1.102	0.946
Numerical Performance Indicator:	-0.23	-1.73
Percent Recovery:	97.30%	82.34%
Status vs Numerical Indicator:	Pass	Pass
Status vs Recovery:	N/A	N/A
Upper % Recovery Limits:	133%	133%
Lower % Recovery Limits:	73%	73%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS84143	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD84143	
Sample Result (pCi/L, g, F):	4.730	
Sample Result 2 Sigma CSU (pCi/L, g, F):	1.102	
Sample Duplicate Result (pCi/L, g, F):	4.008	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.946	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	0.974	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	16.65%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	N/A	
% RPD Limit:	32%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the RL.

Comments:

CLM 4/8/25

SLC 4/8/25

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Test:	Ra-228
Analyst:	ZPC
Date:	4/1/2025
Worklist:	84144
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3572717
MB concentration:	0.627
M/B 2 Sigma CSU:	0.350
MB MDC:	0.620
MB Numerical Performance Indicator:	3.51
MB Status vs Numerical Indicator:	Fail*
MB Status vs. MDC:	See Comment*

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS84144	LCSD84144
Count Date:	4/7/2025	4/7/2025
Spike I.D.:	23-043	23-043
Decay Corrected Spike Concentration (pCi/mL):	32.986	32.986
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.818	0.817
Target Conc. (pCi/L, g, F):	4.031	4.036
Uncertainty (Calculated):	0.198	0.198
Result (pCi/L, g, F):	3.684	4.130
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.853	0.945
Numerical Performance Indicator:	-0.78	0.19
Percent Recovery:	91.40%	102.32%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS84144	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD84144	
Sample Result (pCi/L, g, F):	3.684	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.853	
Sample Duplicate Result (pCi/L, g, F):	4.130	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.945	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	-0.686	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	11.28%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	36%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:
*The method blank result is below the reporting limit for this analysis and is acceptable.

VAL
4/8/25

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

April 11, 2025

Jake Humphrey
Evergy, Inc.
818 S Kansas Avenue
Topeka, KS 66612

RE: Project: TEC BASA PERIMETER - SHALLOW
Pace Project No.: 60471174

Dear Jake Humphrey:

Enclosed are the analytical results for sample(s) received by the laboratory on March 15, 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 National - Mt. Juliet
- Pace Analytical Services - Kansas City

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

Sincerely,

Alice Spiller

Alice Spiller
alice.spiller@pacelabs.com
(913)599-5665
PM Lab Management

Enclosures

cc: Samantha Kaney, Haley & Aldrich
Melanie Satanek, Haley & Aldrich, Inc.
Adriana Sosa, Haley & Aldrich, Inc.
Nick Williams, Haley Aldrich

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CERTIFICATIONS

Project: TEC BASA PERIMETER - SHALLOW
Pace Project No.: 60471174

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

Pace Analytical Services National

12065 Lebanon Road, Mt. Juliet, TN 37122
Alabama Certification #: 40660
Alaska Certification 17-026
Arizona Certification #: AZ0612
Arkansas Certification #: 88-0469
California Certification #: 2932
Canada Certification #: 1461.01
Colorado Certification #: TN00003
Connecticut Certification #: PH-0197
DOD Certification: #1461.01
EPA# TN00003
Florida Certification #: E87487
Georgia DW Certification #: 923
Georgia Certification: NELAP
Idaho Certification #: TN00003
Illinois Certification #: 200008
Indiana Certification #: C-TN-01
Iowa Certification #: 364
Kansas Certification #: E-10277
Kentucky UST Certification #: 16
Kentucky Certification #: 90010
Louisiana Certification #: AI30792
Louisiana DW Certification #: LA180010
Maine Certification #: TN0002
Maryland Certification #: 324
Massachusetts Certification #: M-TN003
Michigan Certification #: 9958
Minnesota Certification #: 047-999-395
Mississippi Certification #: TN00003
Missouri Certification #: 340
Montana Certification #: CERT0086
Nebraska Certification #: NE-OS-15-05
Nevada Certification #: TN-03-2002-34
New Hampshire Certification #: 2975
New Jersey Certification #: TN002
New Mexico DW Certification
New York Certification #: 11742
North Carolina Aquatic Toxicity Certification #: 41
North Carolina Drinking Water Certification #: 21704
North Carolina Environmental Certificate #: 375
North Dakota Certification #: R-140
Ohio VAP Certification #: CL0069
Oklahoma Certification #: 9915
Oregon Certification #: TN200002
Pennsylvania Certification #: 68-02979
Rhode Island Certification #: LAO00356
South Carolina Certification #: 84004
South Dakota Certification
Tennessee DW/Chem/Micro Certification #: 2006
Texas Certification #: T 104704245-17-14
Texas Mold Certification #: LAB0152
USDA Soil Permit #: P330-15-00234
Utah Certification #: TN00003
Vermont Dept. of Health: ID# VT-2006
Virginia Certification #: VT2006
Virginia Certification #: 460132
Washington Certification #: C847
West Virginia Certification #: 233
Wisconsin Certification #: 998093910
Wyoming UST Certification #: via A2LA 2926.01
A2LA-ISO 17025 Certification #: 1461.01
A2LA-ISO 17025 Certification #: 1461.02
AIHA-LAP/LLC EMLAP Certification #:100789

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Lenexa, KS 66219
(913)599-5665

SAMPLE SUMMARY

Project: TEC BASA PERIMETER - SHALLOW
Pace Project No.: 60471174

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60471174001	**MW-15-031325**	Water	03/13/25 12:50	03/15/25 08:00
60471174002	**MW-16-031325**	Water	03/13/25 11:30	03/15/25 08:00
60471174003	**MW-17-031325**	Water	03/13/25 09:50	03/15/25 08:00
60471174004	**MW-18-031225**	Water	03/12/25 12:45	03/15/25 08:00
60471174005	**MW-19-031225**	Water	03/12/25 14:55	03/15/25 08:00
60471174006	**TEC-BASA-PERMIETER-DUP-031225**	Water	03/12/25 12:45	03/15/25 08:00

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SAMPLE ANALYTE COUNT

Project: TEC BASA PERIMETER - SHALLOW
Pace Project No.: 60471174

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60471174001	**MW-15-031325**	EPA 200.7	ARMN	6	PASI-K
		EPA 200.7	ARMN	1	PASI-K
		EPA 6010	ARMN	1	PASI-K
		EPA 200.8	JGP	7	PASI-K
		EPA 200.8	JGP	5	PASI-K
		SM 2540C	MLD	1	PASI-K
		SM 2320B	ARD	1	PAN
		EPA 353.2	CAT	1	PAN
		EPA 365.4	AEC	1	PAN
		SM 3500-Fe B#4	DLJ	1	PASI-K
		SM 4500-H+B	MLD	1	PASI-K
		SM 4500-S-2 D	DLJ	1	PASI-K
		EPA 300.0	AAA	3	PASI-K
		SM 5310C	BMT	1	PASI-K
		SM 5310C	BMT	1	PASI-K
60471174002	**MW-16-031325**	EPA 200.7	ARMN	6	PASI-K
		EPA 200.7	ARMN	1	PASI-K
		EPA 6010	ARMN	1	PASI-K
		EPA 200.8	JGP	7	PASI-K
		EPA 200.8	JGP	5	PASI-K
		SM 2540C	MLD	1	PASI-K
		SM 2320B	ARD	1	PAN
		EPA 353.2	CAT	1	PAN
		EPA 365.4	AEC	1	PAN
		SM 3500-Fe B#4	DLJ	1	PASI-K
		SM 4500-H+B	MLD	1	PASI-K
		SM 4500-S-2 D	DLJ	1	PASI-K
		EPA 300.0	AAA	3	PASI-K
		SM 5310C	BMT	1	PASI-K
		SM 5310C	BMT	1	PASI-K
60471174003	**MW-17-031325**	EPA 200.7	ARMN	6	PASI-K
		EPA 200.7	ARMN	1	PASI-K
		EPA 6010	ARMN	1	PASI-K
		EPA 200.8	JGP	7	PASI-K
		EPA 200.8	JGP	5	PASI-K
		SM 2540C	MLD	1	PASI-K
		SM 2320B	ARD	1	PAN

REPORT OF LABORATORY ANALYSIS

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Lenexa, KS 66219
(913)599-5665

SAMPLE ANALYTE COUNT

Project: TEC BASA PERIMETER - SHALLOW
Pace Project No.: 60471174

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 353.2	CAT	1	PAN
		EPA 365.4	AEC	1	PAN
		SM 3500-Fe B#4	DLJ	1	PASI-K
		SM 4500-H+B	MLD	1	PASI-K
		SM 4500-S-2 D	DLJ	1	PASI-K
		EPA 300.0	AAA	3	PASI-K
		SM 5310C	BMT	1	PASI-K
		SM 5310C	BMT	1	PASI-K
60471174004	**MW-18-031225**	EPA 200.7	ARMN	6	PASI-K
		EPA 200.7	ARMN	1	PASI-K
		EPA 6010	ARMN	1	PASI-K
		EPA 200.8	JGP	7	PASI-K
		EPA 200.8	JGP	5	PASI-K
		SM 2540C	MLD	1	PASI-K
		SM 2320B	ARD	1	PAN
		EPA 353.2	CAT	1	PAN
		EPA 365.4	AEC	1	PAN
		SM 3500-Fe B#4	DLJ	1	PASI-K
		SM 4500-H+B	DLJ	1	PASI-K
		SM 4500-S-2 D	DLJ	1	PASI-K
		EPA 300.0	AAA	3	PASI-K
		SM 5310C	BMT	1	PASI-K
		SM 5310C	BMT	1	PASI-K
60471174005	**MW-19-031225**	EPA 200.7	ARMN	6	PASI-K
		EPA 200.7	ARMN	1	PASI-K
		EPA 6010	ARMN	1	PASI-K
		EPA 200.8	JGP	7	PASI-K
		EPA 200.8	JGP	5	PASI-K
		SM 2540C	MLD	1	PASI-K
		SM 2320B	ARD	1	PAN
		EPA 353.2	CAT	1	PAN
		EPA 365.4	AEC	1	PAN
		SM 3500-Fe B#4	DLJ	1	PASI-K
		SM 4500-H+B	DLJ	1	PASI-K
		SM 4500-S-2 D	DLJ	1	PASI-K
		EPA 300.0	AAA	3	PASI-K
		SM 5310C	BMT	1	PASI-K

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: TEC BASA PERIMETER - SHALLOW
Pace Project No.: 60471174

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 5310C	BMT	1	PASI-K
60471174006	**TEC-BASA-PERMIETER-DUP-031225**	EPA 200.7	ARMN	6	PASI-K
		EPA 200.7	ARMN	1	PASI-K
		EPA 6010	ARMN	1	PASI-K
		EPA 200.8	JGP	7	PASI-K
		EPA 200.8	JGP	5	PASI-K
		SM 2540C	MLD	1	PASI-K
		SM 2320B	ARD	1	PAN
		EPA 353.2	CAT	1	PAN
		EPA 365.4	AEC	1	PAN
		SM 3500-Fe B#4	DLJ	1	PASI-K
		SM 4500-H+B	DLJ	1	PASI-K
		SM 4500-S-2 D	DLJ	1	PASI-K
		EPA 300.0	AAA	3	PASI-K
		SM 5310C	BMT	1	PASI-K
		SM 5310C	BMT	1	PASI-K

PAN = Pace National - Mt. Juliet
PASI-K = Pace Analytical Services - Kansas City

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PROJECT NARRATIVE

Project: TEC BASA PERIMETER - SHALLOW
Pace Project No.: 60471174

Date: April 11, 2025

MW-15-031325 (Lab ID: 60471174001)

- Wet Chemistry by Method 2320 B-2011 - Endpoint pH 4.5 Headspace

MW-16-031325 (Lab ID: 60471174002)

- Wet Chemistry by Method 2320 B-2011 - Endpoint pH 4.5 Headspace

MW-17-031325 (Lab ID: 60471174003)

- Wet Chemistry by Method 2320 B-2011 - Endpoint pH 4.5 Headspace

MW-18-031225 (Lab ID: 60471174004)

- Wet Chemistry by Method 2320 B-2011 - Endpoint pH 4.5 Headspace

MW-19-031225 (Lab ID: 60471174005)

- Wet Chemistry by Method 2320 B-2011 - Endpoint pH 4.5 Headspace

TEC-BASA-PERMIETER-DUP-031225 (Lab ID: 60471174006)

- Wet Chemistry by Method 2320 B-2011 - Endpoint pH 4.5 Headspace

LCS (Lab ID: R4191825-1)

- Wet Chemistry by Method 2320 B-2011 - Endpoint pH 4.5

BLANK (Lab ID: R4191825-2)

- Wet Chemistry by Method 2320 B-2011 - Endpoint pH 4.5

DUP (Lab ID: R4191825-4)

- Wet Chemistry by Method 2320 B-2011 - Endpoint pH 4.5

DUP (Lab ID: R4191825-6)

- Wet Chemistry by Method 2320 B-2011 - Endpoint pH 4.5

LCS (Lab ID: R4191852-1)

- Wet Chemistry by Method 2320 B-2011 - Endpoint pH 4.5

BLANK (Lab ID: R4191852-2)

- Wet Chemistry by Method 2320 B-2011 - Endpoint pH 4.5

DUP (Lab ID: R4191852-3)

- Wet Chemistry by Method 2320 B-2011 - Endpoint pH 4.5

DUP (Lab ID: R4191852-4)

- Wet Chemistry by Method 2320 B-2011 - Endpoint pH 4.5

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PROJECT NARRATIVE

Project: TEC BASA PERIMETER - SHALLOW
Pace Project No.: 60471174

Method: **EPA 200.7**
Description: 200.7 Metals, Total
Client: Evergy_Haley & Aldrich
Date: April 11, 2025

General Information:
6 samples were analyzed for EPA 200.7 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 200.7 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 928235

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60471159004,60471162002

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 3676593)
  - Calcium
  - Sodium
- MS (Lab ID: 3676595)
  - Calcium
  - Magnesium
  - Sodium
- MSD (Lab ID: 3676594)
  - Calcium
  - Sodium

QC Batch: 928349

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60471198001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MSD (Lab ID: 3677034)

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PROJECT NARRATIVE

Project: TEC BASA PERIMETER - SHALLOW
Pace Project No.: 60471174

Method: **EPA 200.7**
Description: 200.7 Metals, Total
Client: Evergy_Haley & Aldrich
Date: April 11, 2025

QC Batch: 928349

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60471198001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- Sodium

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA PERIMETER - SHALLOW
Pace Project No.: 60471174

Method: **EPA 200.7**
Description: 200.7 Metals, Dissolved
Client: Evergy_Haley & Aldrich
Date: April 11, 2025

General Information:
6 samples were analyzed for EPA 200.7 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 200.7 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA PERIMETER - SHALLOW
Pace Project No.: 60471174

Method: **EPA 6010**
Description: 6010 MET ICP
Client: Evergy_Haley & Aldrich
Date: April 11, 2025

General Information:
6 samples were analyzed for EPA 6010 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA PERIMETER - SHALLOW
Pace Project No.: 60471174

Method: **EPA 200.8**
Description: 200.8 MET ICPMS
Client: Evergy_Haley & Aldrich
Date: April 11, 2025

General Information:
6 samples were analyzed for EPA 200.8 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 200.8 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 928236

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60471161001,60471162003

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 3676598)
  - Manganese
- MSD (Lab ID: 3676599)
  - Manganese

QC Batch: 928316

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60471155001,60471174005

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 3676847)
  - Aluminum
  - Iron
- MS (Lab ID: 3676849)

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PROJECT NARRATIVE

Project: TEC BASA PERIMETER - SHALLOW
Pace Project No.: 60471174

Method: **EPA 200.8**
Description: 200.8 MET ICPMS
Client: Evergy_Haley & Aldrich
Date: April 11, 2025

QC Batch: 928316

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60471155001,60471174005

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- Manganese
- MSD (Lab ID: 3676848)
  - Aluminum
  - Iron

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA PERIMETER - SHALLOW
Pace Project No.: 60471174

Method: **EPA 200.8**
Description: 200.8 MET ICPMS, Dissolved
Client: Evergy_Haley & Aldrich
Date: April 11, 2025

General Information:
6 samples were analyzed for EPA 200.8 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 200.8 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 928319

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60471174005

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 3676860)
  - Manganese, Dissolved

Additional Comments:

Analyte Comments:

QC Batch: 928239

1e: Dissolved > Total, Results Confirmed by Bottle Checks

- MW-15-031325 (Lab ID: 60471174001)
  - Manganese, Dissolved

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: TEC BASA PERIMETER - SHALLOW
Pace Project No.: 60471174

Method: **SM 2540C**
Description: 2540C Total Dissolved Solids
Client: Evergy_Haley & Aldrich
Date: April 11, 2025

General Information:
6 samples were analyzed for SM 2540C by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

QC Batch: 928454

D6: The precision between the sample and sample duplicate exceeded laboratory control limits.
- DUP (Lab ID: 3677319)
  - Total Dissolved Solids

QC Batch: 928612

D6: The precision between the sample and sample duplicate exceeded laboratory control limits.
- DUP (Lab ID: 3678477)
  - Total Dissolved Solids

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA PERIMETER - SHALLOW
Pace Project No.: 60471174

Method: **SM 2320B**
Description: Wet Chemistry 2320 B-2011
Client: Evergy_Haley & Aldrich
Date: April 11, 2025

General Information:
6 samples were analyzed for SM 2320B by Pace National Mt. Juliet. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

H3: Sample was received or analysis requested beyond the recognized method holding time.
- MW-18-031225 (Lab ID: 60471174004)
- MW-19-031225 (Lab ID: 60471174005)
- TEC-BASA-PERMIETER-DUP-031225 (Lab ID: 60471174006)

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA PERIMETER - SHALLOW
Pace Project No.: 60471174

Method: **EPA 353.2**
Description: Wet Chemistry 353.2
Client: Evergy_Haley & Aldrich
Date: April 11, 2025

General Information:
6 samples were analyzed for EPA 353.2 by Pace National Mt. Juliet. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA PERIMETER - SHALLOW
Pace Project No.: 60471174

Method: **EPA 365.4**
Description: Wet Chemistry 365.4
Client: Evergy_Haley & Aldrich
Date: April 11, 2025

General Information:
6 samples were analyzed for EPA 365.4 by Pace National Mt. Juliet. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA PERIMETER - SHALLOW
Pace Project No.: 60471174

Method: **SM 3500-Fe B#4**
Description: Iron, Ferrous
Client: Evergy_Haley & Aldrich
Date: April 11, 2025

General Information:
6 samples were analyzed for SM 3500-Fe B#4 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

H6: Analysis initiated outside of the 15 minute EPA required holding time.
- MW-15-031325 (Lab ID: 60471174001)
- MW-16-031325 (Lab ID: 60471174002)
- MW-17-031325 (Lab ID: 60471174003)
- MW-18-031225 (Lab ID: 60471174004)
- MW-19-031225 (Lab ID: 60471174005)
- TEC-BASA-PERMIETER-DUP-031225 (Lab ID: 60471174006)

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA PERIMETER - SHALLOW
Pace Project No.: 60471174

Method: **SM 4500-H+B**
Description: 4500H+ pH, Electrometric
Client: Evergy_Haley & Aldrich
Date: April 11, 2025

General Information:
6 samples were analyzed for SM 4500-H+B by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

H3: Sample was received or analysis requested beyond the recognized method holding time.
- MW-18-031225 (Lab ID: 60471174004)
- MW-19-031225 (Lab ID: 60471174005)
- TEC-BASA-PERMIETER-DUP-031225 (Lab ID: 60471174006)

H6: Analysis initiated outside of the 15 minute EPA required holding time.
- MW-15-031325 (Lab ID: 60471174001)
- MW-16-031325 (Lab ID: 60471174002)
- MW-17-031325 (Lab ID: 60471174003)
- MW-18-031225 (Lab ID: 60471174004)
- MW-19-031225 (Lab ID: 60471174005)
- TEC-BASA-PERMIETER-DUP-031225 (Lab ID: 60471174006)

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA PERIMETER - SHALLOW
Pace Project No.: 60471174

Method: **SM 4500-S-2 D**
Description: 4500S2D Sulfide, Total
Client: Evergy_Haley & Aldrich
Date: April 11, 2025

General Information:
6 samples were analyzed for SM 4500-S-2 D by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 928116

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60471162003

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 3676074)
  - Sulfide, Total
- MSD (Lab ID: 3676075)
  - Sulfide, Total

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA PERIMETER - SHALLOW
Pace Project No.: 60471174

Method: **EPA 300.0**
Description: 300.0 IC Anions 28 Days
Client: Evergy_Haley & Aldrich
Date: April 11, 2025

General Information:
6 samples were analyzed for EPA 300.0 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

QC Batch: 930001

L2: Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.

- LCS (Lab ID: 3683705)
  - Fluoride

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA PERIMETER - SHALLOW
Pace Project No.: 60471174

Method: **SM 5310C**
Description: 5310C TOC
Client: Evergy_Haley & Aldrich
Date: April 11, 2025

General Information:
6 samples were analyzed for SM 5310C by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 929418

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60471159001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 3681048)
  - Total Organic Carbon

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA PERIMETER - SHALLOW
Pace Project No.: 60471174

Method: **SM 5310C**
Description: 5310C Dissolved Organic Carbon
Client: Evergy_Haley & Aldrich
Date: April 11, 2025

General Information:
6 samples were analyzed for SM 5310C by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: TEC BASA PERIMETER - SHALLOW
Pace Project No.: 60471174

Sample: MW-15-031325 **Lab ID: 60471174001** Collected: 03/13/25 12:50 Received: 03/15/25 08:00 Matrix: Water

Parameters	Results	Units	Report Limit	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							
Boron, Total Recoverable	**0.14**	mg/L	0.10	1	03/18/25 09:30	03/25/25 20:51	7440-42-8	
Calcium, Total Recoverable	**237**	mg/L	0.20	1	03/18/25 09:30	03/25/25 20:51	7440-70-2	
Hardness, Magnesium (SM 2340B)	**140**	mg/L	0.21	1	03/18/25 09:30	03/25/25 20:51		
Magnesium, Total Recoverable	**34.0**	mg/L	0.050	1	03/18/25 09:30	03/25/25 20:51	7439-95-4	
Potassium, Total Recoverable	**6.5**	mg/L	0.50	1	03/18/25 09:30	03/25/25 20:51	7440-09-7	
Sodium, Total Recoverable	**71.9**	mg/L	0.50	1	03/18/25 09:30	03/25/25 20:51	7440-23-5	
200.7 Metals, Dissolved	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City							
Magnesium, Dissolved	**30.5**	mg/L	0.050	1	03/18/25 09:30	03/28/25 15:53	7439-95-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Kansas City							
Lithium, Total Recoverable	**0.030**	mg/L	0.010	1	03/18/25 14:07	03/28/25 17:01	7439-93-2	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City							
Aluminum, Total Recoverable	**0.16**	mg/L	0.050	1	03/18/25 09:30	03/20/25 12:31	7429-90-5	
Arsenic, Total Recoverable	**0.0021**	mg/L	0.0010	1	03/18/25 09:30	03/20/25 12:31	7440-38-2	
Barium, Total Recoverable	**0.076**	mg/L	0.0010	1	03/18/25 09:30	03/20/25 12:31	7440-39-3	
Cobalt, Total Recoverable	**0.0012**	mg/L	0.0010	1	03/18/25 09:30	03/20/25 12:31	7440-48-4	
Iron, Total Recoverable	**0.86**	mg/L	0.050	1	03/18/25 09:30	03/20/25 12:31	7439-89-6	
Manganese, Total Recoverable	**0.22**	mg/L	0.0010	1	03/18/25 09:30	03/20/25 12:31	7439-96-5	
Molybdenum, Total Recoverable	**0.0016**	mg/L	0.0010	1	03/18/25 09:30	03/20/25 12:31	7439-98-7	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City							
Aluminum, Dissolved	**<0.050**	mg/L	0.050	1	03/18/25 09:30	03/21/25 14:35	7429-90-5	
Arsenic, Dissolved	**0.0020**	mg/L	0.0010	1	03/18/25 09:30	03/21/25 14:35	7440-38-2	
Cobalt, Dissolved	**0.0014**	mg/L	0.0010	1	03/18/25 09:30	03/21/25 14:35	7440-48-4	
Iron, Dissolved	**0.60**	mg/L	0.050	1	03/18/25 09:30	03/21/25 14:35	7439-89-6	
Manganese, Dissolved	**0.49**	mg/L	0.0010	1	03/18/25 09:30	03/21/25 14:35	7439-96-5	1e
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City							
Total Dissolved Solids	**907**	mg/L	40.0	1		03/20/25 16:56		
Wet Chemistry 2320 B-2011	Analytical Method: SM 2320B Preparation Method: 2320 B-2011 Pace National - Mt. Juliet							
Alkalinity, Total as CaCO3	**561**	mg/L	20.0	1	03/27/25 11:53	03/27/25 11:53		
Wet Chemistry 353.2	Analytical Method: EPA 353.2 Preparation Method: 353.2 Pace National - Mt. Juliet							
Nitrate-Nitrite (as N)	**0.631**	mg/L	0.200	1	03/31/25 23:36	03/31/25 23:36	7727-37-9	

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ANALYTICAL RESULTS

Project: TEC BASA PERIMETER - SHALLOW
Pace Project No.: 60471174

Sample: MW-15-031325 **Lab ID: 60471174001** Collected: 03/13/25 12:50 Received: 03/15/25 08:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Wet Chemistry 365.4	Analytical Method: EPA 365.4 Preparation Method: 351.2/365.4 Pace National - Mt. Juliet							
Phosphorus	**<0.100**	mg/L	0.100	1	04/01/25 07:49	04/01/25 18:03	7723-14-0	
Iron, Ferrous	Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City							
Iron, Ferrous	**1.1**	mg/L	0.20	1		03/19/25 13:01	15438-31-0	H6
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Kansas City							
pH at 25 Degrees C	**6.9**	Std. Units	0.10	1		03/25/25 15:21		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D Pace Analytical Services - Kansas City							
Sulfide, Total	**<0.050**	mg/L	0.050	1		03/18/25 14:56	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City							
Chloride	**142**	mg/L	20.0	20		04/02/25 13:15	16887-00-6	CL
Fluoride	**<0.20**	mg/L	0.20	1		04/02/25 13:01	16984-48-8	L2
Sulfate	**112**	mg/L	20.0	20		04/02/25 13:15	14808-79-8	
5310C TOC	Analytical Method: SM 5310C Pace Analytical Services - Kansas City							
Total Organic Carbon	**<1.0**	mg/L	1.0	1		04/02/25 22:20	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C Pace Analytical Services - Kansas City							
Dissolved Organic Carbon	**1.4**	mg/L	1.0	1		03/29/25 00:52		

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ANALYTICAL RESULTS

Project: TEC BASA PERIMETER - SHALLOW
Pace Project No.: 60471174

Sample: MW-16-031325 **Lab ID: 60471174002** Collected: 03/13/25 11:30 Received: 03/15/25 08:00 Matrix: Water

Parameters	Results	Units	Report Limit	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							
Boron, Total Recoverable	**0.57**	mg/L	0.10	1	03/18/25 09:30	03/25/25 20:04	7440-42-8	
Calcium, Total Recoverable	**219**	mg/L	0.20	1	03/18/25 09:30	03/25/25 20:04	7440-70-2	
Hardness, Magnesium (SM 2340B)	**132**	mg/L	0.21	1	03/18/25 09:30	03/25/25 20:04		
Magnesium, Total Recoverable	**32.1**	mg/L	0.050	1	03/18/25 09:30	03/25/25 20:04	7439-95-4	
Potassium, Total Recoverable	**3.9**	mg/L	0.50	1	03/18/25 09:30	03/25/25 20:04	7440-09-7	
Sodium, Total Recoverable	**189**	mg/L	0.50	1	03/18/25 09:30	03/25/25 20:04	7440-23-5	
200.7 Metals, Dissolved	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City							
Magnesium, Dissolved	**30.5**	mg/L	0.050	1	03/18/25 09:30	03/28/25 16:14	7439-95-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Kansas City							
Lithium, Total Recoverable	**0.020**	mg/L	0.010	1	03/18/25 14:07	03/28/25 17:07	7439-93-2	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City							
Aluminum, Total Recoverable	**1.8**	mg/L	0.050	1	03/18/25 09:30	03/20/25 12:34	7429-90-5	
Arsenic, Total Recoverable	**0.016**	mg/L	0.0010	1	03/18/25 09:30	03/20/25 12:34	7440-38-2	
Barium, Total Recoverable	**0.084**	mg/L	0.0010	1	03/18/25 09:30	03/20/25 12:34	7440-39-3	
Cobalt, Total Recoverable	**0.0043**	mg/L	0.0010	1	03/18/25 09:30	03/20/25 12:34	7440-48-4	
Iron, Total Recoverable	**7.1**	mg/L	0.050	1	03/18/25 09:30	03/20/25 12:34	7439-89-6	
Manganese, Total Recoverable	**2.1**	mg/L	0.0010	1	03/18/25 09:30	03/20/25 12:34	7439-96-5	
Molybdenum, Total Recoverable	**0.0046**	mg/L	0.0010	1	03/18/25 09:30	03/20/25 12:34	7439-98-7	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City							
Aluminum, Dissolved	**<0.050**	mg/L	0.050	1	03/18/25 09:30	03/21/25 14:37	7429-90-5	
Arsenic, Dissolved	**0.014**	mg/L	0.0010	1	03/18/25 09:30	03/21/25 14:37	7440-38-2	
Cobalt, Dissolved	**0.0032**	mg/L	0.0010	1	03/18/25 09:30	03/21/25 14:37	7440-48-4	
Iron, Dissolved	**5.6**	mg/L	0.050	1	03/18/25 09:30	03/21/25 14:37	7439-89-6	
Manganese, Dissolved	**2.4**	mg/L	0.0010	1	03/18/25 09:30	03/21/25 14:37	7439-96-5	D9
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City							
Total Dissolved Solids	**1260**	mg/L	66.7	1		03/20/25 16:56		
Wet Chemistry 2320 B-2011	Analytical Method: SM 2320B Preparation Method: 2320 B-2011 Pace National - Mt. Juliet							
Alkalinity, Total as CaCO3	**529**	mg/L	20.0	1	03/27/25 12:34	03/27/25 12:34		
Wet Chemistry 353.2	Analytical Method: EPA 353.2 Preparation Method: 353.2 Pace National - Mt. Juliet							
Nitrate-Nitrite (as N)	**2.99**	mg/L	0.200	1	03/31/25 23:39	03/31/25 23:39	7727-37-9	

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ANALYTICAL RESULTS

Project: TEC BASA PERIMETER - SHALLOW
Pace Project No.: 60471174

Sample: MW-16-031325 **Lab ID: 60471174002** Collected: 03/13/25 11:30 Received: 03/15/25 08:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Wet Chemistry 365.4	Analytical Method: EPA 365.4 Preparation Method: 351.2/365.4 Pace National - Mt. Juliet							
Phosphorus	**0.409**	mg/L	0.100	1	04/01/25 07:49	04/01/25 18:04	7723-14-0	
Iron, Ferrous	Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City							
Iron, Ferrous	**11.4**	mg/L	0.40	1		03/19/25 13:01	15438-31-0	H6
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Kansas City							
pH at 25 Degrees C	**7.3**	Std. Units	0.10	1		03/25/25 15:21		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D Pace Analytical Services - Kansas City							
Sulfide, Total	**0.13**	mg/L	0.050	1		03/18/25 14:56	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City							
Chloride	**166**	mg/L	20.0	20		04/02/25 14:24	16887-00-6	CL
Fluoride	**0.34**	mg/L	0.20	1		04/02/25 14:11	16984-48-8	L2
Sulfate	**277**	mg/L	20.0	20		04/02/25 14:24	14808-79-8	
5310C TOC	Analytical Method: SM 5310C Pace Analytical Services - Kansas City							
Total Organic Carbon	**2.6**	mg/L	1.0	1		04/02/25 22:40	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C Pace Analytical Services - Kansas City							
Dissolved Organic Carbon	**2.5**	mg/L	1.0	1		03/29/25 01:07		

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ANALYTICAL RESULTS

Project: TEC BASA PERIMETER - SHALLOW
Pace Project No.: 60471174

Sample: MW-17-031325 **Lab ID: 60471174003** Collected: 03/13/25 09:50 Received: 03/15/25 08:00 Matrix: Water

Parameters	Results	Units	Report Limit	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							
Boron, Total Recoverable	**0.54**	mg/L	0.10	1	03/18/25 14:07	03/25/25 16:30	7440-42-8	
Calcium, Total Recoverable	**164**	mg/L	0.20	1	03/18/25 14:07	03/25/25 16:30	7440-70-2	
Hardness, Magnesium (SM 2340B)	**95.5**	mg/L	0.21	1	03/18/25 14:07	03/25/25 16:30		
Magnesium, Total Recoverable	**23.2**	mg/L	0.050	1	03/18/25 14:07	03/25/25 16:30	7439-95-4	
Potassium, Total Recoverable	**6.6**	mg/L	0.50	1	03/18/25 14:07	03/25/25 16:30	7440-09-7	
Sodium, Total Recoverable	**95.2**	mg/L	0.50	1	03/18/25 14:07	03/25/25 16:30	7440-23-5	
200.7 Metals, Dissolved	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City							
Magnesium, Dissolved	**23.7**	mg/L	0.050	1	03/18/25 09:30	03/28/25 16:16	7439-95-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Kansas City							
Lithium, Total Recoverable	**0.027**	mg/L	0.010	1	03/18/25 14:07	03/28/25 17:09	7439-93-2	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City							
Aluminum, Total Recoverable	**0.12**	mg/L	0.050	1	03/18/25 12:45	03/20/25 16:24	7429-90-5	
Arsenic, Total Recoverable	**0.0011**	mg/L	0.0010	1	03/18/25 12:45	03/20/25 16:24	7440-38-2	
Barium, Total Recoverable	**0.069**	mg/L	0.0010	1	03/18/25 12:45	03/20/25 16:24	7440-39-3	
Cobalt, Total Recoverable	**<0.0010**	mg/L	0.0010	1	03/18/25 12:45	03/20/25 16:24	7440-48-4	
Iron, Total Recoverable	**0.21**	mg/L	0.050	1	03/18/25 12:45	03/20/25 16:24	7439-89-6	
Manganese, Total Recoverable	**0.43**	mg/L	0.0010	1	03/18/25 12:45	03/20/25 16:24	7439-96-5	
Molybdenum, Total Recoverable	**0.0065**	mg/L	0.0010	1	03/18/25 12:45	03/20/25 16:24	7439-98-7	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City							
Aluminum, Dissolved	**<0.050**	mg/L	0.050	1	03/18/25 09:30	03/21/25 14:40	7429-90-5	
Arsenic, Dissolved	**0.0011**	mg/L	0.0010	1	03/18/25 09:30	03/21/25 14:40	7440-38-2	
Cobalt, Dissolved	**<0.0010**	mg/L	0.0010	1	03/18/25 09:30	03/21/25 14:40	7440-48-4	
Iron, Dissolved	**<0.050**	mg/L	0.050	1	03/18/25 09:30	03/21/25 14:40	7439-89-6	
Manganese, Dissolved	**0.097**	mg/L	0.0010	1	03/18/25 09:30	03/21/25 14:40	7439-96-5	
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City							
Total Dissolved Solids	**876**	mg/L	20.0	1		03/20/25 16:56		MW
Wet Chemistry 2320 B-2011	Analytical Method: SM 2320B Preparation Method: 2320 B-2011 Pace National - Mt. Juliet							
Alkalinity, Total as CaCO3	**388**	mg/L	20.0	1	03/27/25 12:38	03/27/25 12:38		
Wet Chemistry 353.2	Analytical Method: EPA 353.2 Preparation Method: 353.2 Pace National - Mt. Juliet							
Nitrate-Nitrite (as N)	**0.242**	mg/L	0.200	1	03/31/25 23:41	03/31/25 23:41	7727-37-9	

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ANALYTICAL RESULTS

Project: TEC BASA PERIMETER - SHALLOW
Pace Project No.: 60471174

Sample: MW-17-031325 **Lab ID: 60471174003** Collected: 03/13/25 09:50 Received: 03/15/25 08:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Wet Chemistry 365.4	Analytical Method: EPA 365.4 Preparation Method: 351.2/365.4 Pace National - Mt. Juliet							
Phosphorus	**0.240**	mg/L	0.100	1	04/01/25 07:51	04/01/25 16:47	7723-14-0	
Iron, Ferrous	Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City							
Iron, Ferrous	**<0.20**	mg/L	0.20	1		03/19/25 13:01	15438-31-0	H6
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Kansas City							
pH at 25 Degrees C	**7.0**	Std. Units	0.10	1		03/25/25 15:21		H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D Pace Analytical Services - Kansas City							
Sulfide, Total	**<0.050**	mg/L	0.050	1		03/18/25 14:56	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City							
Chloride	**32.4**	mg/L	20.0	20		04/02/25 15:06	16887-00-6	CL
Fluoride	**0.22**	mg/L	0.20	1		04/02/25 14:52	16984-48-8	
Sulfate	**296**	mg/L	20.0	20		04/02/25 15:06	14808-79-8	
5310C TOC	Analytical Method: SM 5310C Pace Analytical Services - Kansas City							
Total Organic Carbon	**1.4**	mg/L	1.0	1		04/02/25 23:00	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C Pace Analytical Services - Kansas City							
Dissolved Organic Carbon	**1.5**	mg/L	1.0	1		03/29/25 01:23		

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ANALYTICAL RESULTS

Project: TEC BASA PERIMETER - SHALLOW
Pace Project No.: 60471174

Sample: MW-18-031225 **Lab ID: 60471174004** Collected: 03/12/25 12:45 Received: 03/15/25 08:00 Matrix: Water

Parameters	Results	Units	Report Limit	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							
Boron, Total Recoverable	**0.52**	mg/L	0.10	1	03/18/25 14:07	03/25/25 16:31	7440-42-8	
Calcium, Total Recoverable	**221**	mg/L	0.20	1	03/18/25 14:07	03/25/25 16:31	7440-70-2	
Hardness, Magnesium (SM 2340B)	**95.5**	mg/L	0.21	1	03/18/25 14:07	03/25/25 16:31		
Magnesium, Total Recoverable	**23.2**	mg/L	0.050	1	03/18/25 14:07	03/25/25 16:31	7439-95-4	
Potassium, Total Recoverable	**20.6**	mg/L	0.50	1	03/18/25 14:07	03/25/25 16:31	7440-09-7	
Sodium, Total Recoverable	**103**	mg/L	0.50	1	03/18/25 14:07	03/25/25 16:31	7440-23-5	
200.7 Metals, Dissolved	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City							
Magnesium, Dissolved	**24.6**	mg/L	0.050	1	03/18/25 12:45	03/28/25 16:05	7439-95-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Kansas City							
Lithium, Total Recoverable	**0.043**	mg/L	0.010	1	03/18/25 14:07	03/28/25 17:10	7439-93-2	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City							
Aluminum, Total Recoverable	**0.25**	mg/L	0.050	1	03/18/25 12:45	03/20/25 16:32	7429-90-5	
Arsenic, Total Recoverable	**0.0018**	mg/L	0.0010	1	03/18/25 12:45	03/20/25 16:32	7440-38-2	
Barium, Total Recoverable	**0.16**	mg/L	0.0010	1	03/18/25 12:45	03/20/25 16:32	7440-39-3	
Cobalt, Total Recoverable	**0.0012**	mg/L	0.0010	1	03/18/25 12:45	03/20/25 16:32	7440-48-4	
Iron, Total Recoverable	**0.71**	mg/L	0.050	1	03/18/25 12:45	03/20/25 16:32	7439-89-6	
Manganese, Total Recoverable	**2.3**	mg/L	0.0010	1	03/18/25 12:45	03/20/25 16:32	7439-96-5	
Molybdenum, Total Recoverable	**0.0066**	mg/L	0.0010	1	03/18/25 12:45	03/20/25 16:32	7439-98-7	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City							
Aluminum, Dissolved	**<0.050**	mg/L	0.050	1	03/18/25 12:45	03/21/25 13:44	7429-90-5	
Arsenic, Dissolved	**0.0015**	mg/L	0.0010	1	03/18/25 12:45	03/21/25 13:44	7440-38-2	
Cobalt, Dissolved	**<0.0010**	mg/L	0.0010	1	03/18/25 12:45	03/21/25 13:44	7440-48-4	
Iron, Dissolved	**0.30**	mg/L	0.050	1	03/18/25 12:45	03/21/25 13:44	7439-89-6	
Manganese, Dissolved	**2.5**	mg/L	0.0010	1	03/18/25 12:45	03/21/25 13:44	7439-96-5	D9
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City							
Total Dissolved Solids	**967**	mg/L	66.7	1		03/19/25 15:51		
Wet Chemistry 2320 B-2011	Analytical Method: SM 2320B Preparation Method: 2320 B-2011 Pace National - Mt. Juliet							
Alkalinity, Total as CaCO3	**499**	mg/L	20.0	1	03/27/25 12:41	03/27/25 12:41		H3
Wet Chemistry 353.2	Analytical Method: EPA 353.2 Preparation Method: 353.2 Pace National - Mt. Juliet							
Nitrate-Nitrite (as N)	**<0.200**	mg/L	0.200	1	03/31/25 23:43	03/31/25 23:43	7727-37-9	

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ANALYTICAL RESULTS

Project: TEC BASA PERIMETER - SHALLOW
Pace Project No.: 60471174

Sample: MW-18-031225 **Lab ID: 60471174004** Collected: 03/12/25 12:45 Received: 03/15/25 08:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Wet Chemistry 365.4	Analytical Method: EPA 365.4 Preparation Method: 351.2/365.4 Pace National - Mt. Juliet							
Phosphorus	**0.169**	mg/L	0.100	1	04/01/25 07:51	04/01/25 16:48	7723-14-0	
Iron, Ferrous	Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City							
Iron, Ferrous	**0.59**	mg/L	0.20	1		03/19/25 13:01	15438-31-0	H6
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Kansas City							
pH at 25 Degrees C	**1.5**	Std. Units	0.10	1		03/25/25 12:56		H3,H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D Pace Analytical Services - Kansas City							
Sulfide, Total	**<0.050**	mg/L	0.050	1		03/18/25 14:56	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City							
Chloride	**91.1**	mg/L	20.0	20		04/02/25 15:48	16887-00-6	CL
Fluoride	**<0.20**	mg/L	0.20	1		04/02/25 15:34	16984-48-8	
Sulfate	**305**	mg/L	20.0	20		04/02/25 15:48	14808-79-8	
5310C TOC	Analytical Method: SM 5310C Pace Analytical Services - Kansas City							
Total Organic Carbon	**<1.0**	mg/L	1.0	1		04/02/25 23:20	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C Pace Analytical Services - Kansas City							
Dissolved Organic Carbon	**1.4**	mg/L	1.0	1		03/29/25 01:38		

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ANALYTICAL RESULTS

Project: TEC BASA PERIMETER - SHALLOW
Pace Project No.: 60471174

Sample: MW-19-031225 **Lab ID: 60471174005** Collected: 03/12/25 14:55 Received: 03/15/25 08:00 Matrix: Water

Parameters	Results	Units	Report Limit	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							
Boron, Total Recoverable	**0.49**	mg/L	0.10	1	03/18/25 14:07	03/25/25 16:33	7440-42-8	
Calcium, Total Recoverable	**388**	mg/L	0.20	1	03/18/25 14:07	03/25/25 16:33	7440-70-2	
Hardness, Magnesium (SM 2340B)	**254**	mg/L	0.21	1	03/18/25 14:07	03/25/25 16:33		
Magnesium, Total Recoverable	**61.6**	mg/L	0.050	1	03/18/25 14:07	03/25/25 16:33	7439-95-4	
Potassium, Total Recoverable	**8.7**	mg/L	0.50	1	03/18/25 14:07	03/25/25 16:33	7440-09-7	
Sodium, Total Recoverable	**131**	mg/L	0.50	1	03/18/25 14:07	03/25/25 16:33	7440-23-5	
200.7 Metals, Dissolved	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City							
Magnesium, Dissolved	**62.9**	mg/L	0.050	1	03/18/25 12:45	03/28/25 16:10	7439-95-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Kansas City							
Lithium, Total Recoverable	**0.031**	mg/L	0.010	1	03/18/25 14:07	03/28/25 17:12	7439-93-2	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City							
Aluminum, Total Recoverable	**1.8**	mg/L	0.050	1	03/18/25 12:45	03/20/25 16:36	7429-90-5	
Arsenic, Total Recoverable	**0.011**	mg/L	0.0010	1	03/18/25 12:45	03/20/25 16:36	7440-38-2	
Barium, Total Recoverable	**0.044**	mg/L	0.0010	1	03/18/25 12:45	03/20/25 16:36	7440-39-3	
Cobalt, Total Recoverable	**0.011**	mg/L	0.0010	1	03/18/25 12:45	03/20/25 16:36	7440-48-4	
Iron, Total Recoverable	**8.1**	mg/L	0.050	1	03/18/25 12:45	03/20/25 16:36	7439-89-6	
Manganese, Total Recoverable	**2.9**	mg/L	0.0010	1	03/18/25 12:45	03/20/25 16:36	7439-96-5	M1
Molybdenum, Total Recoverable	**0.0016**	mg/L	0.0010	1	03/18/25 12:45	03/20/25 16:36	7439-98-7	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City							
Aluminum, Dissolved	**<0.050**	mg/L	0.050	1	03/18/25 12:45	03/21/25 13:33	7429-90-5	
Arsenic, Dissolved	**0.011**	mg/L	0.0010	1	03/18/25 12:45	03/21/25 13:33	7440-38-2	
Cobalt, Dissolved	**0.0089**	mg/L	0.0010	1	03/18/25 12:45	03/21/25 13:33	7440-48-4	
Iron, Dissolved	**7.0**	mg/L	0.050	1	03/18/25 12:45	03/21/25 13:33	7439-89-6	
Manganese, Dissolved	**3.3**	mg/L	0.0010	1	03/18/25 12:45	03/21/25 13:33	7439-96-5	D9,M1
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City							
Total Dissolved Solids	**2420**	mg/L	100	1		03/19/25 15:51		MW
Wet Chemistry 2320 B-2011	Analytical Method: SM 2320B Preparation Method: 2320 B-2011 Pace National - Mt. Juliet							
Alkalinity, Total as CaCO3	**297**	mg/L	20.0	1	03/27/25 12:45	03/27/25 12:45		H3
Wet Chemistry 353.2	Analytical Method: EPA 353.2 Preparation Method: 353.2 Pace National - Mt. Juliet							
Nitrate-Nitrite (as N)	**<0.200**	mg/L	0.200	1	03/31/25 23:46	03/31/25 23:46	7727-37-9	

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ANALYTICAL RESULTS

Project: TEC BASA PERIMETER - SHALLOW
Pace Project No.: 60471174

Sample: MW-19-031225 **Lab ID: 60471174005** Collected: 03/12/25 14:55 Received: 03/15/25 08:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Wet Chemistry 365.4	Analytical Method: EPA 365.4 Preparation Method: 351.2/365.4 Pace National - Mt. Juliet							
Phosphorus	**0.809**	mg/L	0.100	1	04/01/25 07:51	04/01/25 16:49	7723-14-0	
Iron, Ferrous	Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City							
Iron, Ferrous	**10.5**	mg/L	0.40	1		03/19/25 13:01	15438-31-0	H6
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Kansas City							
pH at 25 Degrees C	**6.7**	Std. Units	0.10	1		03/25/25 12:56		H3,H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D Pace Analytical Services - Kansas City							
Sulfide, Total	**0.074**	mg/L	0.050	1		03/18/25 14:56	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City							
Chloride	**34.0**	mg/L	20.0	20		04/02/25 18:06	16887-00-6	
Fluoride	**0.25**	mg/L	0.20	1		04/02/25 17:52	16984-48-8	
Sulfate	**1300**	mg/L	100	100		04/02/25 18:20	14808-79-8	
5310C TOC	Analytical Method: SM 5310C Pace Analytical Services - Kansas City							
Total Organic Carbon	**1.8**	mg/L	1.0	1		04/02/25 23:41	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C Pace Analytical Services - Kansas City							
Dissolved Organic Carbon	**<1.0**	mg/L	1.0	1		03/29/25 01:54		

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ANALYTICAL RESULTS

Project: TEC BASA PERIMETER - SHALLOW
Pace Project No.: 60471174

Sample: TEC-BASA-PERMIETER-DUP-031225 **Lab ID: 60471174006** Collected: 03/12/25 12:45 Received: 03/15/25 08:00 Matrix: Water

Parameters	Results	Units	Report Limit	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							
Boron, Total Recoverable	**0.54**	mg/L	0.10	1	03/18/25 14:07	03/25/25 16:35	7440-42-8	
Calcium, Total Recoverable	**226**	mg/L	0.20	1	03/18/25 14:07	03/25/25 16:35	7440-70-2	
Hardness, Magnesium (SM 2340B)	**97.1**	mg/L	0.21	1	03/18/25 14:07	03/25/25 16:35		
Magnesium, Total Recoverable	**23.6**	mg/L	0.050	1	03/18/25 14:07	03/25/25 16:35	7439-95-4	
Potassium, Total Recoverable	**21.0**	mg/L	0.50	1	03/18/25 14:07	03/25/25 16:35	7440-09-7	
Sodium, Total Recoverable	**106**	mg/L	0.50	1	03/18/25 14:07	03/25/25 16:35	7440-23-5	
200.7 Metals, Dissolved	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City							
Magnesium, Dissolved	**23.6**	mg/L	0.050	1	03/18/25 12:45	03/28/25 16:12	7439-95-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Kansas City							
Lithium, Total Recoverable	**0.039**	mg/L	0.010	1	03/18/25 14:07	03/28/25 17:20	7439-93-2	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City							
Aluminum, Total Recoverable	**0.28**	mg/L	0.050	1	03/18/25 12:45	03/20/25 16:42	7429-90-5	
Arsenic, Total Recoverable	**0.0018**	mg/L	0.0010	1	03/18/25 12:45	03/20/25 16:42	7440-38-2	
Barium, Total Recoverable	**0.16**	mg/L	0.0010	1	03/18/25 12:45	03/20/25 16:42	7440-39-3	
Cobalt, Total Recoverable	**0.0012**	mg/L	0.0010	1	03/18/25 12:45	03/20/25 16:42	7440-48-4	
Iron, Total Recoverable	**0.74**	mg/L	0.050	1	03/18/25 12:45	03/20/25 16:42	7439-89-6	
Manganese, Total Recoverable	**2.3**	mg/L	0.0010	1	03/18/25 12:45	03/20/25 16:42	7439-96-5	
Molybdenum, Total Recoverable	**0.0064**	mg/L	0.0010	1	03/18/25 12:45	03/20/25 16:42	7439-98-7	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City							
Aluminum, Dissolved	**<0.050**	mg/L	0.050	1	03/18/25 12:45	03/21/25 13:47	7429-90-5	
Arsenic, Dissolved	**0.0014**	mg/L	0.0010	1	03/18/25 12:45	03/21/25 13:47	7440-38-2	
Cobalt, Dissolved	**<0.0010**	mg/L	0.0010	1	03/18/25 12:45	03/21/25 13:47	7440-48-4	
Iron, Dissolved	**0.31**	mg/L	0.050	1	03/18/25 12:45	03/21/25 13:47	7439-89-6	
Manganese, Dissolved	**2.4**	mg/L	0.0010	1	03/18/25 12:45	03/21/25 13:47	7439-96-5	D9
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City							
Total Dissolved Solids	**1140**	mg/L	66.7	1		03/19/25 15:51		MW
Wet Chemistry 2320 B-2011	Analytical Method: SM 2320B Preparation Method: 2320 B-2011 Pace National - Mt. Juliet							
Alkalinity, Total as CaCO3	**502**	mg/L	20.0	1	03/27/25 12:57	03/27/25 12:57		H3
Wet Chemistry 353.2	Analytical Method: EPA 353.2 Preparation Method: 353.2 Pace National - Mt. Juliet							
Nitrate-Nitrite (as N)	**<0.200**	mg/L	0.200	1	03/31/25 23:48	03/31/25 23:48	7727-37-9	

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ANALYTICAL RESULTS

Project: TEC BASA PERIMETER - SHALLOW
Pace Project No.: 60471174

Sample: TEC-BASA-PERMIETER-DUP-031225 **Lab ID: 60471174006** Collected: 03/12/25 12:45 Received: 03/15/25 08:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Wet Chemistry 365.4	Analytical Method: EPA 365.4 Preparation Method: 351.2/365.4 Pace National - Mt. Juliet							
Phosphorus	**0.171**	mg/L	0.100	1	04/01/25 07:51	04/01/25 16:50	7723-14-0	
Iron, Ferrous	Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City							
Iron, Ferrous	**0.62**	mg/L	0.20	1		03/19/25 13:01	15438-31-0	H6
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Kansas City							
pH at 25 Degrees C	**7.0**	Std. Units	0.10	1		03/25/25 12:56		H3,H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D Pace Analytical Services - Kansas City							
Sulfide, Total	**<0.050**	mg/L	0.050	1		03/18/25 14:56	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City							
Chloride	**91.3**	mg/L	20.0	20		04/02/25 18:48	16887-00-6	
Fluoride	**<0.20**	mg/L	0.20	1		04/02/25 18:34	16984-48-8	
Sulfate	**306**	mg/L	20.0	20		04/02/25 18:48	14808-79-8	
5310C TOC	Analytical Method: SM 5310C Pace Analytical Services - Kansas City							
Total Organic Carbon	**<1.0**	mg/L	1.0	1		04/03/25 00:42	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C Pace Analytical Services - Kansas City							
Dissolved Organic Carbon	**5.0**	mg/L	1.0	1		03/29/25 02:09		

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QUALITY CONTROL DATA

Project: TEC BASA PERIMETER - SHALLOW
Pace Project No.: 60471174

QC Batch: 928235
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: 60471174001, 60471174002

METHOD BLANK: 3676591 Matrix: Water
Associated Lab Samples: 60471174001, 60471174002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Boron	mg/L	<0.10	0.10	03/25/25 20:13	
Calcium	mg/L	<0.20	0.20	03/25/25 20:13	
Hardness, Magnesium (SM 2340B)	mg/L	<0.21	0.21	03/25/25 20:13	
Magnesium	mg/L	<0.050	0.050	03/25/25 20:13	
Potassium	mg/L	<0.50	0.50	03/25/25 20:13	
Sodium	mg/L	<0.50	0.50	03/25/25 20:13	

LABORATORY CONTROL SAMPLE: 3676592

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	mg/L	1	0.95	95	85-115	
Calcium	mg/L	10	10.1	101	85-115	
Hardness, Magnesium (SM 2340B)	mg/L	41.2	41.6	101	85-115	
Magnesium	mg/L	10	10.1	101	85-115	
Potassium	mg/L	10	10.2	102	85-115	
Sodium	mg/L	10	10.5	105	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3676593 3676594

Parameter	Units	60471159004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Boron	mg/L	0.96	1	1	2.0	2.0	102	104	70-130	1	20	
Calcium	mg/L	210	10	10	226	229	156	188	70-130	1	20	M1
Hardness, Magnesium (SM 2340B)	mg/L	102000 ug/L	41.2	41.2	147	148	109	113	70-130	1	20	
Magnesium	mg/L	24.7	10	10	35.7	36.0	109	113	70-130	1	20	
Potassium	mg/L	10.9	10	10	21.8	21.9	110	111	70-130	1	20	
Sodium	mg/L	216	10	10	235	238	199	224	70-130	1	20	M1

MATRIX SPIKE SAMPLE: 3676595

Parameter	Units	60471162002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Boron	mg/L	2.4	1	3.3	88	70-130	
Calcium	mg/L	141	10	146	52	70-130	M1
Hardness, Magnesium (SM 2340B)	mg/L	345	41.2	372	66	70-130	
Magnesium	mg/L	83.8	10	90.4	66	70-130	M1

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QUALITY CONTROL DATA

Project: TEC BASA PERIMETER - SHALLOW
Pace Project No.: 60471174

MATRIX SPIKE SAMPLE: 3676595

Parameter	Units	60471162002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Potassium	mg/L	16.1	10	26.2	101	70-130	
Sodium	mg/L	4940	10	4870	-673	70-130	M1

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QUALITY CONTROL DATA

Project: TEC BASA PERIMETER - SHALLOW
Pace Project No.: 60471174

QC Batch: 928349
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: 60471174003, 60471174004, 60471174005, 60471174006

METHOD BLANK: 3677031 Matrix: Water
Associated Lab Samples: 60471174003, 60471174004, 60471174005, 60471174006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Boron	mg/L	<0.10	0.10	03/25/25 16:24	
Calcium	mg/L	<0.20	0.20	03/25/25 16:24	
Hardness, Magnesium (SM 2340B)	mg/L	<0.21	0.21	03/25/25 16:24	
Magnesium	mg/L	<0.050	0.050	03/25/25 16:24	
Potassium	mg/L	<0.50	0.50	03/25/25 16:24	
Sodium	mg/L	<0.50	0.50	03/25/25 16:24	

LABORATORY CONTROL SAMPLE: 3677032

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	mg/L	1	0.96	96	85-115	
Calcium	mg/L	10	10.3	103	85-115	
Hardness, Magnesium (SM 2340B)	mg/L	41.2	41.7	101	85-115	
Magnesium	mg/L	10	10.1	101	85-115	
Potassium	mg/L	10	10.3	103	85-115	
Sodium	mg/L	10	10.5	105	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3677033 3677034

Parameter	Units	60471198001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Boron	mg/L	303 ug/L	1	1	1.3	1.3	97	100	70-130	2	20	
Calcium	mg/L	84900 ug/L	10	10	94.6	97.1	97	122	70-130	3	20	
Hardness, Magnesium (SM 2340B)	mg/L	128000 ug/L	41.2	41.2	167	173	95	109	70-130	3	20	
Magnesium	mg/L	31100 ug/L	10	10	40.6	42.0	95	109	70-130	3	20	
Potassium	mg/L	19900 ug/L	10	10	30.2	30.7	103	108	70-130	2	20	
Sodium	mg/L	293000 ug/L	10	10	303	313	101	199	70-130	3	20	M1

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QUALITY CONTROL DATA

Project: TEC BASA PERIMETER - SHALLOW
Pace Project No.: 60471174

QC Batch: 928238
QC Batch Method: EPA 200.7
Analysis Method: EPA 200.7
Analysis Description: 200.7 Metals, Dissolved
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60471174001, 60471174002, 60471174003

METHOD BLANK: 3676603 Matrix: Water
Associated Lab Samples: 60471174001, 60471174002, 60471174003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Magnesium, Dissolved	mg/L	<0.050	0.050	03/28/25 15:16	

LABORATORY CONTROL SAMPLE: 3676604

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Magnesium, Dissolved	mg/L	10	10.7	107	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3676605 3676606

Parameter	Units	60471155003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Magnesium, Dissolved	mg/L	31.0	10	10	41.3	41.2	103	101	70-130	0	20	

MATRIX SPIKE SAMPLE: 3676607

Parameter	Units	60471162002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Magnesium, Dissolved	mg/L	85.7	10	94.4	87	70-130	

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QUALITY CONTROL DATA

Project: TEC BASA PERIMETER - SHALLOW
Pace Project No.: 60471174

QC Batch: 928318
QC Batch Method: EPA 200.7
Analysis Method: EPA 200.7
Analysis Description: 200.7 Metals, Dissolved
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60471174004, 60471174005, 60471174006

METHOD BLANK: 3676854 Matrix: Water
Associated Lab Samples: 60471174004, 60471174005, 60471174006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Magnesium, Dissolved	mg/L	<0.050	0.050	03/28/25 16:01	

LABORATORY CONTROL SAMPLE: 3676855

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Magnesium, Dissolved	mg/L	10	10.5	105	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3676856 3676857

Parameter	Units	60471174004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Magnesium, Dissolved	mg/L	24.6	10	10	33.7	34.0	91	94	70-130	1	20	

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QUALITY CONTROL DATA

Project: TEC BASA PERIMETER - SHALLOW
Pace Project No.: 60471174

QC Batch: 928236
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: 60471174001, 60471174002

METHOD BLANK: 3676596 Matrix: Water
Associated Lab Samples: 60471174001, 60471174002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	mg/L	<0.050	0.050	03/20/25 11:17	
Arsenic	mg/L	<0.0010	0.0010	03/20/25 11:17	
Barium	mg/L	<0.0010	0.0010	03/20/25 11:17	
Cobalt	mg/L	<0.0010	0.0010	03/20/25 11:17	
Iron	mg/L	<0.050	0.050	03/20/25 11:17	
Manganese	mg/L	<0.0010	0.0010	03/20/25 11:17	
Molybdenum	mg/L	<0.0010	0.0010	03/20/25 11:17	

LABORATORY CONTROL SAMPLE: 3676597

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	mg/L	1	0.97	97	85-115	
Arsenic	mg/L	0.04	0.038	96	85-115	
Barium	mg/L	0.04	0.037	94	85-115	
Cobalt	mg/L	0.04	0.038	96	85-115	
Iron	mg/L	1	0.95	95	85-115	
Manganese	mg/L	0.04	0.039	97	85-115	
Molybdenum	mg/L	0.04	0.039	97	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3676598 3676599

Parameter	Units	60471161001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum	mg/L	275 ug/L	1	1	1.4	1.4	108	113	70-130	4	20	
Arsenic	mg/L	0.0015	0.04	0.04	0.039	0.040	94	96	70-130	2	20	
Barium	mg/L	0.043	0.04	0.04	0.082	0.084	97	102	70-130	2	20	
Cobalt	mg/L	0.010	0.04	0.04	0.049	0.051	96	102	70-130	4	20	
Iron	mg/L	693 ug/L	1	1	1.6	1.6	89	92	70-130	2	20	
Manganese	mg/L	1430 ug/L	0.04	0.04	1.5	1.5	178	212	70-130	1	20	M1
Molybdenum	mg/L	0.0023	0.04	0.04	0.040	0.041	95	98	70-130	3	20	

MATRIX SPIKE SAMPLE: 3676600

Parameter	Units	60471162003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum	mg/L	<0.50	1	1.2	114	70-130	
Arsenic	mg/L	<0.0050	0.04	0.039	93	70-130	

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QUALITY CONTROL DATA

Project: TEC BASA PERIMETER - SHALLOW
Pace Project No.: 60471174

MATRIX SPIKE SAMPLE: 3676600

Parameter	Units	60471162003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Barium	mg/L	0.11	0.04	0.15	103	70-130	
Cobalt	mg/L	<0.010	0.04	0.041	97	70-130	
Iron	mg/L	<0.50	1	1.0	88	70-130	
Manganese	mg/L	0.12	0.04	0.16	103	70-130	
Molybdenum	mg/L	<0.0050	0.04	0.044	101	70-130	

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QUALITY CONTROL DATA

Project: TEC BASA PERIMETER - SHALLOW
Pace Project No.: 60471174

QC Batch: 928316
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: 60471174003, 60471174004, 60471174005, 60471174006

METHOD BLANK: 3676845 Matrix: Water
Associated Lab Samples: 60471174003, 60471174004, 60471174005, 60471174006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	mg/L	<0.050	0.050	03/20/25 15:36	
Arsenic	mg/L	<0.0010	0.0010	03/20/25 15:36	
Barium	mg/L	<0.0010	0.0010	03/20/25 15:36	
Cobalt	mg/L	<0.0010	0.0010	03/20/25 15:36	
Iron	mg/L	<0.050	0.050	03/20/25 15:36	
Manganese	mg/L	<0.0010	0.0010	03/20/25 15:36	
Molybdenum	mg/L	<0.0010	0.0010	03/20/25 15:36	

LABORATORY CONTROL SAMPLE: 3676846

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	mg/L	1	1.0	102	85-115	
Arsenic	mg/L	0.04	0.037	93	85-115	
Barium	mg/L	0.04	0.039	97	85-115	
Cobalt	mg/L	0.04	0.037	93	85-115	
Iron	mg/L	1	0.94	94	85-115	
Manganese	mg/L	0.04	0.040	100	85-115	
Molybdenum	mg/L	0.04	0.038	96	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3676847 3676848

Parameter	Units	60471155001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum	mg/L	4.5	1	1	6.2	6.2	173	167	70-130	1	20	M1
Arsenic	mg/L	0.0027	0.04	0.04	0.039	0.039	92	92	70-130	0	20	
Barium	mg/L	107 ug/L	0.04	0.04	0.15	0.15	109	101	70-130	2	20	
Cobalt	mg/L	0.0053	0.04	0.04	0.044	0.044	96	97	70-130	1	20	
Iron	mg/L	5.3	1	1	6.7	6.7	138	135	70-130	0	20	M1
Manganese	mg/L	0.69	0.04	0.04	0.73	0.73	105	93	70-130	1	20	
Molybdenum	mg/L	0.015	0.04	0.04	0.052	0.052	92	92	70-130	0	20	

MATRIX SPIKE SAMPLE: 3676849

Parameter	Units	60471174005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum	mg/L	1.8	1	3.0	124	70-130	
Arsenic	mg/L	0.011	0.04	0.049	93	70-130	

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QUALITY CONTROL DATA

Project: TEC BASA PERIMETER - SHALLOW
Pace Project No.: 60471174

MATRIX SPIKE SAMPLE: 3676849

Parameter	Units	60471174005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Barium	mg/L	0.044	0.04	0.083	100	70-130	
Cobalt	mg/L	0.011	0.04	0.049	95	70-130	
Iron	mg/L	8.1	1	9.0	82	70-130	
Manganese	mg/L	2.9	0.04	2.9	-34	70-130	M1
Molybdenum	mg/L	0.0016	0.04	0.038	92	70-130	

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QUALITY CONTROL DATA

Project: TEC BASA PERIMETER - SHALLOW
Pace Project No.: 60471174

QC Batch: 928239
QC Batch Method: EPA 200.8
Analysis Method: EPA 200.8
Analysis Description: 200.8 MET Dissolved
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60471174001, 60471174002, 60471174003

METHOD BLANK: 3676608 Matrix: Water
Associated Lab Samples: 60471174001, 60471174002, 60471174003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	mg/L	<0.050	0.050	03/21/25 13:53	
Arsenic, Dissolved	mg/L	<0.0010	0.0010	03/21/25 13:53	
Cobalt, Dissolved	mg/L	<0.0010	0.0010	03/21/25 13:53	
Iron, Dissolved	mg/L	<0.050	0.050	03/21/25 13:53	
Manganese, Dissolved	mg/L	<0.0010	0.0010	03/21/25 13:53	

LABORATORY CONTROL SAMPLE: 3676609

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	mg/L	1	0.96	96	85-115	
Arsenic, Dissolved	mg/L	0.04	0.038	96	85-115	
Cobalt, Dissolved	mg/L	0.04	0.039	96	85-115	
Iron, Dissolved	mg/L	1	1.0	100	85-115	
Manganese, Dissolved	mg/L	0.04	0.039	97	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3676610 3676611

Parameter	Units	60471155004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum, Dissolved	mg/L	0.064	1	1	1.1	1.1	101	101	70-130	1	20	
Arsenic, Dissolved	mg/L	0.0013	0.04	0.04	0.041	0.041	98	98	70-130	0	20	
Cobalt, Dissolved	mg/L	0.0011	0.04	0.04	0.039	0.040	95	96	70-130	1	20	
Iron, Dissolved	mg/L	0.095	1	1	1.1	1.1	101	101	70-130	0	20	
Manganese, Dissolved	mg/L	0.36	0.04	0.04	0.39	0.40	93	110	70-130	2	20	

MATRIX SPIKE SAMPLE: 3676612

Parameter	Units	60471162003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	mg/L	<0.25	1	1.2	121	70-130	
Arsenic, Dissolved	mg/L	<0.0050	0.04	0.038	92	70-130	
Cobalt, Dissolved	mg/L	<0.0050	0.04	0.042	101	70-130	
Iron, Dissolved	mg/L	<0.25	1	0.90	85	70-130	
Manganese, Dissolved	mg/L	0.10	0.04	0.14	86	70-130	

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QUALITY CONTROL DATA

Project: TEC BASA PERIMETER - SHALLOW
Pace Project No.: 60471174

QC Batch: 928319
QC Batch Method: EPA 200.8
Analysis Method: EPA 200.8
Analysis Description: 200.8 MET Dissolved
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60471174004, 60471174005, 60471174006

METHOD BLANK: 3676858 Matrix: Water
Associated Lab Samples: 60471174004, 60471174005, 60471174006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	mg/L	<0.050	0.050	03/21/25 13:28	
Arsenic, Dissolved	mg/L	<0.0010	0.0010	03/21/25 13:28	
Cobalt, Dissolved	mg/L	<0.0010	0.0010	03/21/25 13:28	
Iron, Dissolved	mg/L	<0.050	0.050	03/21/25 13:28	
Manganese, Dissolved	mg/L	<0.0010	0.0010	03/21/25 13:28	

LABORATORY CONTROL SAMPLE: 3676859

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	mg/L	1	0.95	95	85-115	
Arsenic, Dissolved	mg/L	0.04	0.039	97	85-115	
Cobalt, Dissolved	mg/L	0.04	0.039	97	85-115	
Iron, Dissolved	mg/L	1	1.0	103	85-115	
Manganese, Dissolved	mg/L	0.04	0.039	97	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3676860 3676861

Parameter	Units	60471174005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum, Dissolved	mg/L	<0.050	1	1	1.0	0.98	100	98	70-130	2	20	
Arsenic, Dissolved	mg/L	0.011	0.04	0.04	0.053	0.052	103	101	70-130	2	20	
Cobalt, Dissolved	mg/L	0.0089	0.04	0.04	0.047	0.046	94	92	70-130	2	20	
Iron, Dissolved	mg/L	7.0	1	1	8.1	7.9	113	99	70-130	2	20	
Manganese, Dissolved	mg/L	3.3	0.04	0.04	3.3	3.3	31	86	70-130	1	20	M1

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QUALITY CONTROL DATA

Project: TEC BASA PERIMETER - SHALLOW
Pace Project No.: 60471174

QC Batch: 928324
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60471174001, 60471174002, 60471174003, 60471174004, 60471174005, 60471174006

METHOD BLANK: 3676875 Matrix: Water
Associated Lab Samples: 60471174001, 60471174002, 60471174003, 60471174004, 60471174005, 60471174006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lithium	mg/L	<0.010	0.010	03/28/25 16:57	

LABORATORY CONTROL SAMPLE: 3676876

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lithium	mg/L	1	1.0	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3676877 3676878

Parameter	Units	60471174001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lithium	mg/L	0.030	1	1	1.0	1.0	101	97	75-125	4	20	

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QUALITY CONTROL DATA

Project: TEC BASA PERIMETER - SHALLOW
Pace Project No.: 60471174

QC Batch: 2477394
QC Batch Method: 2320 B-2011
Analysis Method: SM 2320B
Analysis Description: Wet Chemistry 2320 B-2011
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 60471174006

METHOD BLANK: R4191852-2 Matrix: Water
Associated Lab Samples: 60471174006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<20.0	20.0	03/27/25 08:10	

LABORATORY CONTROL SAMPLE: R4191852-1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	100	105	105	90.0-110	

SAMPLE DUPLICATE: R4191852-3

Parameter	Units	L1840169-02 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	164	166	0.719	20	

SAMPLE DUPLICATE: R4191852-4

Parameter	Units	L1840494-04 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	424	422	0.539	20	

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QUALITY CONTROL DATA

Project: TEC BASA PERIMETER - SHALLOW
Pace Project No.: 60471174

QC Batch: 2477402
QC Batch Method: 2320 B-2011
Analysis Method: SM 2320B
Analysis Description: Wet Chemistry 2320 B-2011
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 60471174001, 60471174002, 60471174003, 60471174004, 60471174005

METHOD BLANK: R4191825-2 Matrix: Water
Associated Lab Samples: 60471174001, 60471174002, 60471174003, 60471174004, 60471174005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<20.0	20.0	03/27/25 08:10	

LABORATORY CONTROL SAMPLE: R4191825-1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	100	101	101	90.0-110	

SAMPLE DUPLICATE: R4191825-4

Parameter	Units	60471174001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	561	559	0.453	20	

SAMPLE DUPLICATE: R4191825-6

Parameter	Units	L1840486-07 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	479	479	0.0990	20	

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QUALITY CONTROL DATA

Project: TEC BASA PERIMETER - SHALLOW
Pace Project No.: 60471174

QC Batch: 2479715
QC Batch Method: 353.2
Analysis Method: EPA 353.2
Analysis Description: Wet Chemistry 353.2
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 60471174001, 60471174002, 60471174003, 60471174004, 60471174005, 60471174006

METHOD BLANK: R4193552-1 Matrix: Water
Associated Lab Samples: 60471174001, 60471174002, 60471174003, 60471174004, 60471174005, 60471174006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrate-Nitrite (as N)	mg/L	<0.200	0.200	03/31/25 23:01	

LABORATORY CONTROL SAMPLE: R4193552-2

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrate-Nitrite (as N)	mg/L	2.50	2.66	107	90.0-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R4193552-3 R4193552-4

Parameter	Units	L1839990-02 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrate-Nitrite (as N)	mg/L	ND	2.50	2.50	2.75	2.78	110	111	90.0-110	1.16	20	MH

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R4193552-5 R4193552-6

Parameter	Units	L1840383-01 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrate-Nitrite (as N)	mg/L	ND	2.50	2.50	2.74	2.76	110	111	90.0-110	0.836	20	MH

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QUALITY CONTROL DATA

Project: TEC BASA PERIMETER - SHALLOW
Pace Project No.: 60471174

QC Batch: 2480476
QC Batch Method: 351.2/365.4
Analysis Method: EPA 365.4
Analysis Description: Wet Chemistry 365.4
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 60471174001, 60471174002

METHOD BLANK: R4193808-7 Matrix: Water
Associated Lab Samples: 60471174001, 60471174002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Phosphorus	mg/L	<0.100	0.100	04/01/25 17:28	

LABORATORY CONTROL SAMPLE: R4193808-8

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphorus	mg/L	3.37	3.45	102	85.0-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R4193808-9 R4193808-10

Parameter	Units	L1838600-01 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phosphorus	mg/L	0.0960	2.50	2.50	2.70	2.60	104	100	90.0-110	3.77	20	

SAMPLE DUPLICATE: R4193808-11

Parameter	Units	L1838600-02 Result	Dup Result	RPD	Max RPD	Qualifiers
Phosphorus	mg/L	0.0975	<0.100	0.817	20	

SAMPLE DUPLICATE: R4193808-12

Parameter	Units	L1838600-03 Result	Dup Result	RPD	Max RPD	Qualifiers
Phosphorus	mg/L	0.797	0.746	6.61	20	

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QUALITY CONTROL DATA

Project: TEC BASA PERIMETER - SHALLOW
Pace Project No.: 60471174

QC Batch: 2481132
QC Batch Method: 351.2/365.4
Analysis Method: EPA 365.4
Analysis Description: Wet Chemistry 365.4
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 60471174003, 60471174004, 60471174005, 60471174006

METHOD BLANK: R4193846-1 Matrix: Water
Associated Lab Samples: 60471174003, 60471174004, 60471174005, 60471174006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Phosphorus	mg/L	<0.100	0.100	04/01/25 16:40	

LABORATORY CONTROL SAMPLE: R4193846-2

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphorus	mg/L	3.37	3.46	103	85.0-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R4193846-4 R4193846-5

Parameter	Units	60471174006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phosphorus	mg/L	0.171	2.50	2.50	2.77	2.74	104	103	90.0-110	1.09	20	

SAMPLE DUPLICATE: R4193846-6

Parameter	Units	L1840555-01 Result	Dup Result	RPD	Max RPD	Qualifiers
Phosphorus	mg/L	3.91	4.19	6.91	20	

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QUALITY CONTROL DATA

Project: TEC BASA PERIMETER - SHALLOW
Pace Project No.: 60471174

QC Batch: 928454
QC Batch Method: SM 2540C
Analysis Method: SM 2540C
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60471174004, 60471174005, 60471174006

METHOD BLANK: 3677316 Matrix: Water
Associated Lab Samples: 60471174004, 60471174005, 60471174006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<5.0	5.0	03/19/25 15:41	

LABORATORY CONTROL SAMPLE: 3677317

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	1000	987	99	80-120	MW

SAMPLE DUPLICATE: 3677318

Parameter	Units	60470878001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	348	332	5	10	

SAMPLE DUPLICATE: 3677319

Parameter	Units	60471161003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1550	1250	21	10	D6

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QUALITY CONTROL DATA

Project: TEC BASA PERIMETER - SHALLOW
Pace Project No.: 60471174

QC Batch: 928612
QC Batch Method: SM 2540C
Analysis Method: SM 2540C
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60471174001, 60471174002, 60471174003

METHOD BLANK: 3677987 Matrix: Water
Associated Lab Samples: 60471174001, 60471174002, 60471174003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<5.0	5.0	03/20/25 16:56	

LABORATORY CONTROL SAMPLE: 3677988

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

SAMPLE DUPLICATE: 3678477

Parameter	Units	60470873006 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1570	1170	29	10	D6

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QUALITY CONTROL DATA

Project: TEC BASA PERIMETER - SHALLOW
Pace Project No.: 60471174

QC Batch: 928269
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: 60471174001, 60471174002, 60471174003, 60471174004, 60471174005, 60471174006

METHOD BLANK: 3676656 Matrix: Water
Associated Lab Samples: 60471174001, 60471174002, 60471174003, 60471174004, 60471174005, 60471174006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron, Ferrous	mg/L	<0.20	0.20	03/19/25 13:01	H6

LABORATORY CONTROL SAMPLE: 3676657

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Ferrous	mg/L	2	2.0	100	90-110	H6

SAMPLE DUPLICATE: 3677354

Parameter	Units	60471162002 Result	Dup Result	RPD	Max RPD	Qualifiers
Iron, Ferrous	mg/L	0.35	0.33	5	20	H6

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QUALITY CONTROL DATA

Project: TEC BASA PERIMETER - SHALLOW
Pace Project No.: 60471174

QC Batch: 929161
QC Batch Method: SM 4500-H+B
Analysis Method: SM 4500-H+B
Analysis Description: 4500H+B pH
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60471174004, 60471174005, 60471174006

SAMPLE DUPLICATE: 3680203

Parameter	Units	60471123001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.2	7.2	0	5	H3,H6

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QUALITY CONTROL DATA

Project: TEC BASA PERIMETER - SHALLOW
Pace Project No.: 60471174

QC Batch: 929162
QC Batch Method: SM 4500-H+B
Analysis Method: SM 4500-H+B
Analysis Description: 4500H+B pH
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60471174001, 60471174002, 60471174003

SAMPLE DUPLICATE: 3680204

Parameter	Units	60471161003 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.9	7.8	2	5	H6

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QUALITY CONTROL DATA

Project: TEC BASA PERIMETER - SHALLOW
Pace Project No.: 60471174

QC Batch: 928116
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: 60471174001, 60471174002, 60471174003, 60471174004, 60471174005, 60471174006

METHOD BLANK: 3676071 Matrix: Water
Associated Lab Samples: 60471174001, 60471174002, 60471174003, 60471174004, 60471174005, 60471174006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide, Total	mg/L	<0.050	0.050	03/18/25 14:56	

LABORATORY CONTROL SAMPLE: 3676072

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	0.5	0.50	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3676074 3676075

Parameter	Units	60471162003 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	0.085	0.092	16	18	75-125	8	20	M1

SAMPLE DUPLICATE: 3676073

Parameter	Units	60471162003 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	<0.050	<0.050		20	

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QUALITY CONTROL DATA

Project: TEC BASA PERIMETER - SHALLOW
Pace Project No.: 60471174

QC Batch: 930001
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: 60471174001, 60471174002, 60471174003, 60471174004, 60471174005, 60471174006

METHOD BLANK: 3683704 Matrix: Water
Associated Lab Samples: 60471174001, 60471174002, 60471174003, 60471174004, 60471174005, 60471174006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<1.0	1.0	04/03/25 18:42	
Fluoride	mg/L	<0.20	0.20	04/03/25 18:42	
Sulfate	mg/L	<1.0	1.0	04/03/25 18:42	

LABORATORY CONTROL SAMPLE: 3683705

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	2.2	89	90-110	L2
Sulfate	mg/L	5	4.8	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3683706 3683707

Parameter	Units	60471512001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	12800	5000	5000	18700	18000	117	103	80-120	4	15	CL
Fluoride	mg/L	ND	2500	2500	2830	2690	113	107	80-120	5	15	
Sulfate	mg/L	ND	5000	5000	5110	5130	91	91	80-120	0	15	

MATRIX SPIKE SAMPLE: 3683708

Parameter	Units	60471512002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	4650	2500	7010	94	80-120	
Fluoride	mg/L	ND	1250	1450	116	80-120	
Sulfate	mg/L	ND	2500	2130	85	80-120	

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QUALITY CONTROL DATA

Project: TEC BASA PERIMETER - SHALLOW
Pace Project No.: 60471174

QC Batch: 929418
QC Batch Method: SM 5310C
Analysis Method: SM 5310C
Analysis Description: 5310C Total Organic Carbon
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60471174001, 60471174002, 60471174003, 60471174004, 60471174005, 60471174006

METHOD BLANK: 3681046 Matrix: Water
Associated Lab Samples: 60471174001, 60471174002, 60471174003, 60471174004, 60471174005, 60471174006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	<1.0	1.0	04/02/25 17:36	

LABORATORY CONTROL SAMPLE: 3681047

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	5	4.7	93	80-120	

MATRIX SPIKE SAMPLE: 3681048

Parameter	Units	60471159001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	<1.0	5	4.6	75	80-120	M1

SAMPLE DUPLICATE: 3681049

Parameter	Units	60471159003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Organic Carbon	mg/L	1.7	1.7	0	25	

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QUALITY CONTROL DATA

Project: TEC BASA PERIMETER - SHALLOW
Pace Project No.: 60471174

QC Batch: 929417
QC Batch Method: SM 5310C
Analysis Method: SM 5310C
Analysis Description: 5310C Dissolved Organic Carbon
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60471174001, 60471174002, 60471174003, 60471174004, 60471174005, 60471174006

METHOD BLANK: 3681042 Matrix: Water
Associated Lab Samples: 60471174001, 60471174002, 60471174003, 60471174004, 60471174005, 60471174006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dissolved Organic Carbon	mg/L	<1.0	1.0	03/28/25 19:27	

LABORATORY CONTROL SAMPLE: 3681043

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	5	5.0	100	80-120	

MATRIX SPIKE SAMPLE: 3681044

Parameter	Units	60471070001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	ND	5	5.1	95	80-120	

SAMPLE DUPLICATE: 3681045

Parameter	Units	60471070003 Result	Dup Result	RPD	Max RPD	Qualifiers
Dissolved Organic Carbon	mg/L	ND	<1.0		25	

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QUALIFIERS

Project: TEC BASA PERIMETER - SHALLOW
Pace Project No.: 60471174

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.

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TNI - The NELAC Institute.

SAMPLE QUALIFIERS

Sample: 60471174001
[1] Wet Chemistry by Method 2320 B-2011 - Endpoint pH 4.5 Headspace
Sample: 60471174002
[1] Wet Chemistry by Method 2320 B-2011 - Endpoint pH 4.5 Headspace
Sample: 60471174003
[1] Wet Chemistry by Method 2320 B-2011 - Endpoint pH 4.5 Headspace
Sample: 60471174004
[1] Wet Chemistry by Method 2320 B-2011 - Endpoint pH 4.5 Headspace
Sample: 60471174005
[1] Wet Chemistry by Method 2320 B-2011 - Endpoint pH 4.5 Headspace
Sample: 60471174006
[1] Wet Chemistry by Method 2320 B-2011 - Endpoint pH 4.5 Headspace
Sample: R4191825-1
[1] Wet Chemistry by Method 2320 B-2011 - Endpoint pH 4.5
Sample: R4191825-2
[1] Wet Chemistry by Method 2320 B-2011 - Endpoint pH 4.5

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QUALIFIERS

Project: TEC BASA PERIMETER - SHALLOW
Pace Project No.: 60471174

SAMPLE QUALIFIERS

Sample: R4191825-4
[1] Wet Chemistry by Method 2320 B-2011 - Endpoint pH 4.5
Sample: R4191825-6
[1] Wet Chemistry by Method 2320 B-2011 - Endpoint pH 4.5
Sample: R4191852-1
[1] Wet Chemistry by Method 2320 B-2011 - Endpoint pH 4.5
Sample: R4191852-2
[1] Wet Chemistry by Method 2320 B-2011 - Endpoint pH 4.5
Sample: R4191852-3
[1] Wet Chemistry by Method 2320 B-2011 - Endpoint pH 4.5
Sample: R4191852-4
[1] Wet Chemistry by Method 2320 B-2011 - Endpoint pH 4.5
Sample: L1840169-02
[1] Wet Chemistry by Method 2320 B-2011 - Endpoint pH 4.5 Headspace
Sample: L1840486-07
[1] Wet Chemistry by Method 2320 B-2011 - Endpoint pH 4.5 Headspace
Sample: L1840494-04
[1] Wet Chemistry by Method 2320 B-2011 - Endpoint pH 4.5 Headspace

ANALYTE QUALIFIERS

1e	Dissolved > Total, Results Confirmed by Bottle Checks
CL	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.
D6	The precision between the sample and sample duplicate exceeded laboratory control limits.
D9	Dissolved result is greater than the total. Data is within laboratory control limits.
H3	Sample was received or analysis requested beyond the recognized method holding time.
H6	Analysis initiated outside of the 15 minute EPA required holding time.
L2	Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
MH	Matrix spike recovery and/or matrix spike duplicate recovery was above laboratory control limits. Result may be biased high.
MW	Due to matrix interference, achieving a constant weight is not possible.

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: TEC BASA PERIMETER - SHALLOW
Pace Project No.: 60471174

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60471174001	**MW-15-031325**	EPA 200.7	928235	EPA 200.7	928311
60471174002	**MW-16-031325**	EPA 200.7	928235	EPA 200.7	928311
60471174003	**MW-17-031325**	EPA 200.7	928349	EPA 200.7	928393
60471174004	**MW-18-031225**	EPA 200.7	928349	EPA 200.7	928393
60471174005	**MW-19-031225**	EPA 200.7	928349	EPA 200.7	928393
60471174006	**TEC-BASA-PERMIETER-DUP-031225**	EPA 200.7	928349	EPA 200.7	928393
60471174001	**MW-15-031325**	EPA 200.7	928238	EPA 200.7	928310
60471174002	**MW-16-031325**	EPA 200.7	928238	EPA 200.7	928310
60471174003	**MW-17-031325**	EPA 200.7	928238	EPA 200.7	928310
60471174004	**MW-18-031225**	EPA 200.7	928318	EPA 200.7	928360
60471174005	**MW-19-031225**	EPA 200.7	928318	EPA 200.7	928360
60471174006	**TEC-BASA-PERMIETER-DUP-031225**	EPA 200.7	928318	EPA 200.7	928360
60471174001	**MW-15-031325**	EPA 3010	928324	EPA 6010	928392
60471174002	**MW-16-031325**	EPA 3010	928324	EPA 6010	928392
60471174003	**MW-17-031325**	EPA 3010	928324	EPA 6010	928392
60471174004	**MW-18-031225**	EPA 3010	928324	EPA 6010	928392
60471174005	**MW-19-031225**	EPA 3010	928324	EPA 6010	928392
60471174006	**TEC-BASA-PERMIETER-DUP-031225**	EPA 3010	928324	EPA 6010	928392
60471174001	**MW-15-031325**	EPA 200.8	928236	EPA 200.8	928312
60471174002	**MW-16-031325**	EPA 200.8	928236	EPA 200.8	928312
60471174003	**MW-17-031325**	EPA 200.8	928316	EPA 200.8	928358
60471174004	**MW-18-031225**	EPA 200.8	928316	EPA 200.8	928358
60471174005	**MW-19-031225**	EPA 200.8	928316	EPA 200.8	928358
60471174006	**TEC-BASA-PERMIETER-DUP-031225**	EPA 200.8	928316	EPA 200.8	928358
60471174001	**MW-15-031325**	EPA 200.8	928239	EPA 200.8	928309
60471174002	**MW-16-031325**	EPA 200.8	928239	EPA 200.8	928309
60471174003	**MW-17-031325**	EPA 200.8	928239	EPA 200.8	928309
60471174004	**MW-18-031225**	EPA 200.8	928319	EPA 200.8	928359
60471174005	**MW-19-031225**	EPA 200.8	928319	EPA 200.8	928359
60471174006	**TEC-BASA-PERMIETER-DUP-031225**	EPA 200.8	928319	EPA 200.8	928359
60471174001	**MW-15-031325**	SM 2540C	928612		
60471174002	**MW-16-031325**	SM 2540C	928612		
60471174003	**MW-17-031325**	SM 2540C	928612		
60471174004	**MW-18-031225**	SM 2540C	928454		
60471174005	**MW-19-031225**	SM 2540C	928454		
60471174006	**TEC-BASA-PERMIETER-DUP-031225**	SM 2540C	928454		
60471174001	**MW-15-031325**	2320 B-2011	2477402	SM 2320B	2477402
60471174002	**MW-16-031325**	2320 B-2011	2477402	SM 2320B	2477402
60471174003	**MW-17-031325**	2320 B-2011	2477402	SM 2320B	2477402

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: TEC BASA PERIMETER - SHALLOW
Pace Project No.: 60471174

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60471174004	**MW-18-031225**	2320 B-2011	2477402	SM 2320B	2477402
60471174005	**MW-19-031225**	2320 B-2011	2477402	SM 2320B	2477402
60471174006	**TEC-BASA-PERMIETER-DUP-031225**	2320 B-2011	2477394	SM 2320B	2477394
60471174001	**MW-15-031325**	353.2	2479715	EPA 353.2	2479715
60471174002	**MW-16-031325**	353.2	2479715	EPA 353.2	2479715
60471174003	**MW-17-031325**	353.2	2479715	EPA 353.2	2479715
60471174004	**MW-18-031225**	353.2	2479715	EPA 353.2	2479715
60471174005	**MW-19-031225**	353.2	2479715	EPA 353.2	2479715
60471174006	**TEC-BASA-PERMIETER-DUP-031225**	353.2	2479715	EPA 353.2	2479715
60471174001	**MW-15-031325**	351.2/365.4	2480476	EPA 365.4	2480476
60471174002	**MW-16-031325**	351.2/365.4	2480476	EPA 365.4	2480476
60471174003	**MW-17-031325**	351.2/365.4	2481132	EPA 365.4	2481132
60471174004	**MW-18-031225**	351.2/365.4	2481132	EPA 365.4	2481132
60471174005	**MW-19-031225**	351.2/365.4	2481132	EPA 365.4	2481132
60471174006	**TEC-BASA-PERMIETER-DUP-031225**	351.2/365.4	2481132	EPA 365.4	2481132
60471174001	**MW-15-031325**	SM 3500-Fe B#4	928269		
60471174002	**MW-16-031325**	SM 3500-Fe B#4	928269		
60471174003	**MW-17-031325**	SM 3500-Fe B#4	928269		
60471174004	**MW-18-031225**	SM 3500-Fe B#4	928269		
60471174005	**MW-19-031225**	SM 3500-Fe B#4	928269		
60471174006	**TEC-BASA-PERMIETER-DUP-031225**	SM 3500-Fe B#4	928269		
60471174001	**MW-15-031325**	SM 4500-H+B	929162		
60471174002	**MW-16-031325**	SM 4500-H+B	929162		
60471174003	**MW-17-031325**	SM 4500-H+B	929162		
60471174004	**MW-18-031225**	SM 4500-H+B	929161		
60471174005	**MW-19-031225**	SM 4500-H+B	929161		
60471174006	**TEC-BASA-PERMIETER-DUP-031225**	SM 4500-H+B	929161		
60471174001	**MW-15-031325**	SM 4500-S-2 D	928116		
60471174002	**MW-16-031325**	SM 4500-S-2 D	928116		
60471174003	**MW-17-031325**	SM 4500-S-2 D	928116		
60471174004	**MW-18-031225**	SM 4500-S-2 D	928116		
60471174005	**MW-19-031225**	SM 4500-S-2 D	928116		
60471174006	**TEC-BASA-PERMIETER-DUP-031225**	SM 4500-S-2 D	928116		
60471174001	**MW-15-031325**	EPA 300.0	930001		
60471174002	**MW-16-031325**	EPA 300.0	930001		
60471174003	**MW-17-031325**	EPA 300.0	930001		
60471174004	**MW-18-031225**	EPA 300.0	930001		
60471174005	**MW-19-031225**	EPA 300.0	930001		
60471174006	**TEC-BASA-PERMIETER-DUP-031225**	EPA 300.0	930001		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: TEC BASA PERIMETER - SHALLOW
Pace Project No.: 60471174

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60471174001	**MW-15-031325**	SM 5310C	929418		
60471174002	**MW-16-031325**	SM 5310C	929418		
60471174003	**MW-17-031325**	SM 5310C	929418		
60471174004	**MW-18-031225**	SM 5310C	929418		
60471174005	**MW-19-031225**	SM 5310C	929418		
60471174006	**TEC-BASA-PERMIETER-DUP-031225**	SM 5310C	929418		
60471174001	**MW-15-031325**	SM 5310C	929417		
60471174002	**MW-16-031325**	SM 5310C	929417		
60471174003	**MW-17-031325**	SM 5310C	929417		
60471174004	**MW-18-031225**	SM 5310C	929417		
60471174005	**MW-19-031225**	SM 5310C	929417		
60471174006	**TEC-BASA-PERMIETER-DUP-031225**	SM 5310C	929417		

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WO# : 60471174

60471174

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

Client Name: Evergy KS Central

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 0.1/0.3 Corr. Factor +0.1 Corrected 0.2/0.4

Date and initials of person examining contents: PV 3/17/25

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#: 88727/88728	☐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

6q471174

Scan QR Code for instructions

Company Name:	Evergy Kansas Central, Inc.	Contact/Report To:	Jake Humphrey
Street Address:	818 S Kansas Avenue, Topeka, KS 66612	Phone #:	(913)634-0605
		E-Mail:	jake.humphrey@evergy.com
		Cc E-Mail:	skaney@haleyaldrich.com
Customer Project #:			
Project Name:	TEC BASA PERIMETER - SHALLOW	Invoice To:	Tecumseh Center
		Invoice E-Mail:	evergyap@onlinecapturecenter.com
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	WSTR-2000094802
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [X] CT [ ] ET

County / State origin of sample(s): Kansas

Data Deliverables: [ ] Level II [ ] Level III [ ] Level IV [ ] EQUIS [ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [ ] Yes [X] 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): [X] Yes [ ] No

Analysis: Metals, Dissolved; DOC

* 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	200.7/200.8 Diss Metals	200.7/200.8/6010 Total Metals	2320B Alkalinity	2540C Total Dissolved Solids	300.0 Cl,F,SO4,pH	4500S2D Sulfide, Total	5310C Dissolved Organic Carbon	5310C TOC	Iron, Ferrous	NO2NO3, Total Phosphorus	Sample Comment	Preservation non-conformance identified for sample.
Specify Container Size **										2	3	3	2	3	3	3	3	6	3		
Identify Container Preservative Type***										2	2	1	1	1	5,6	3	3	4	3		
MW-15-031325	GW	Grab	-	-	3/13/2025	1250	12	-	-	X	X	X	X	X	X	X	X	X	X		
MW-16-031325	GW	Grab	-	-	3/13/2025	1130	12	-	-	X	X	X	X	X	X	X	X	X	X		
MW-17-031325	GW	Grab	-	-	3/13/2025	950	12	-	-	X	X	X	X	X	X	X	X	X	X		
MW-18-031225	GW	Grab	-	-	3/12/2025	1245	12	-	-	X	X	X	X	X	X	X	X	X	X		
MW-19-031225	GW	Grab	-	-	3/12/2025	1455	12	-	-	X	X	X	X	X	X	X	X	X	X		
TEC-BASA-PERIMETER-DUP-031225	GW	Grab	-	-	3/12/2025	1245	12	-	-	X	X	X	X	X	X	X	X	X	X		

**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: Alice Spiller

AcctNum / Client ID:

Table #:

Profile / Template: 16502

Prelog / Bottle Ord. ID: EZ 3230179

Additional Instructions from Pace®:
Total metals; B,Ca,As,Ba,Co,Li,Mo, Mg,Na,K,Al,Fe,Mn, hardness
Dissolved Metals: As,Co,Fe,Al,Mg,Mn
Profile 16502, line 6

Collected By: (Printed Name) Jason R. Franks

Signature: Jason R. Franks

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp (°C)	On Ice:
2	T301	+0.1	0.1/0.3	0.2/0.4	

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
Jason R. Franks / SCS	03/15/2025 / 8:00	JAPACE	3/15/25 0806	
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 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/

DC#_Title: ENV-FRM-LENE-0001 v07_Sample Container Count
Effective Date: 7/12/2024

Client: Evergy KCS Central Profile/EZ #: 3230179

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		1										2							1	2		1	1	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: 6c471174

Internal Transfer Chain of Custody

C169

Pace

☐ Rush Multiplier_____X
☐ Samples Pre-Logged into eCOC

State Of Origin: KS
Cert. Needed: [X] Yes ☐ No

Workorder: 60471174 **Workorder Name:** TEC BASA PERIMETER - SHALLOW **Owner Received Date:** 3/15/2025 **Results Requested By:** 3/31/2025

Report To	Subcontract To
Alice Spiller Pace Analytical Kansas 9608 Loiret Blvd. Lenexa, KS 66219 Phone (913)599-5665	Pace National 12065 Lebanon Rd Mt. Juliet, TN 37122 Phone (615) 758-5858

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers: H2SO4 (L2)	Preserved Containers: Unpreserved					2320B Alkalinity	NO2NO3 pres	Total Phosphorus									LAB USE ONLY
1	MW-15-031325	PS	3/13/2025 12:50	60471174001	Water	1	1					X	X	X									-01
2	MW-16-031325	PS	3/13/2025 11:30	60471174002	Water	1	1					X	X	X									-02
3	MW-17-031325	PS	3/13/2025 09:50	60471174003	Water	1	1					X	X	X									-03
4	MW-18-031225	PS	3/12/2025 12:45	60471174004	Water	1	1					X	X	X									-04
5	MW-19-031225	PS	3/12/2025 14:55	60471174005	Water	1	1					X	X	X									-05
6	TEC-BASA-PERMIETER-DUP-031225	PS	3/12/2025 12:45	60471174006	Water	1	1					X	X	X									-06

Transfers	Released By	Date/Time	Received By	Date/Time
1			Bailey Barker	03/27/2025 0900
2				
3				

Comments: ***RUSH-Alk. holding time***

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.

TLA9 3.3+0.4=3.7 4033 6457 9007

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	Condition: ___NCF ___OK	
RA Screen <0.5 mR/hr:	Y__N		

Containers: 12

PH – 10BDH5131
TRC – 4072A72

Ship To:
Pace National
12065 Lebanon Rd
Mt. Juliet, TN 37122
Phone (615) 758-5858

INTER_LABORATORY WORK ORDER # 60471174
(To be completed by sending lab)

Sending Project No:	60471174
Receiving Project No:	
Check Box for Consolidated Invoice:	☐
Date Prepared:	03/26/25
REQUESTED COMPLETION DATE:	**3/31/2025**

Sending Region	IR60-Kansas	Sending Project Mgr.	Alice Spiller
Receiving Region	IR850-Pace National	External Client	Evergy_Haley & Aldrich
State of Sample Origin	KS	QC Deliverable	STD REPORT

All questions should be addressed to sending project manager.

Requested Reportable Units _____ Report Wet or Dry Weight? _____ ☐ IRWO Lab Need to run? Cert. Needed Yes

WORK REQUESTED

Method Description	Container Type	Quantity of containers	Preservative	Quantity of Samples	Acode	Acode Desc
NO2NO3 pres	BP3S	6	H2SO4	6	SI-21WET	SUB PASI WET
Total Phosphorus			H2SO4	6	SI-21WET0	SUB PASI WTA
2320B Alkalinity	BP3U	6	Unpreserved	6	SI-21WET0	SUB PASI WTA

Special Requirements: Report C, QC Limits (C),Haley & Aldrich Equis (230),PEG Level BR (497)

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.

LOCATION: (BP3S) 6090-R2-S5A

(BP3U) 6090-R2-S5A

Lagoon 6

ATTACHMENT 2-3
June 2025 Annual Assessment Sampling Event
Laboratory Analytical Report

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

July 16, 2025

Jake Humphrey
Evergy, Inc.
818 S Kansas Avenue
Topeka, KS 66612

RE: Project: TEC BASA Perimeter Shallow RAD
Pace Project No.: 60477282

Dear Jake Humphrey:

Enclosed are the analytical results for sample(s) received by the laboratory on June 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 - Greensburg

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

Sincerely,

Alice Spiller

Alice Spiller
alice.spiller@pacelabs.com
(913)599-5665
PM Lab Management

Enclosures

cc: Samantha Kaney, Haley & Aldrich
Melanie Satanek, Haley & Aldrich, Inc.
Adriana Sosa, Haley & Aldrich, Inc.
Nick Williams, Haley Aldrich

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CERTIFICATIONS

Project: TEC BASA Perimeter Shallow RAD
Pace Project No.: 60477282

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

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SAMPLE SUMMARY

Project: TEC BASA Perimeter Shallow RAD
Pace Project No.: 60477282

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60477282001	**MW-15-061225**	Water	06/12/25 13:40	06/13/25 15:51
60477282002	**MW-16-061225**	Water	06/12/25 11:45	06/13/25 15:51
60477282003	**MW-17-061225**	Water	06/12/25 10:50	06/13/25 15:51
60477282004	**MW-18-061125**	Water	06/11/25 13:35	06/13/25 15:51
60477282005	**MW-19-061125**	Water	06/11/25 12:05	06/13/25 15:51
60477282006	**TEC-BASA-PERIMETER-DUP-061125**	Water	06/11/25 12:05	06/13/25 15:51

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SAMPLE ANALYTE COUNT

Project: TEC BASA Perimeter Shallow RAD
Pace Project No.: 60477282

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60477282001	**MW-15-061225**	EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
60477282002	**MW-16-061225**	EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
60477282003	**MW-17-061225**	EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
60477282004	**MW-18-061125**	EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
60477282005	**MW-19-061125**	EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
60477282006	**TEC-BASA-PERIMETER-DUP-061125**	EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

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PROJECT NARRATIVE

Project: TEC BASA Perimeter Shallow RAD
Pace Project No.: 60477282

Method: **EPA 903.1**
Description: 903.1 Radium 226
Client: Evergy_Haley & Aldrich
Date: July 16, 2025

General Information:
6 samples were analyzed for EPA 903.1 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA Perimeter Shallow RAD
Pace Project No.: 60477282

Method: **EPA 904.0**
Description: 904.0 Radium 228
Client: Evergy_Haley & Aldrich
Date: July 16, 2025

General Information:
6 samples were analyzed for EPA 904.0 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA Perimeter Shallow RAD
Pace Project No.: 60477282

Method: **Total Radium Calculation**
Description: Total Radium 228+226
Client: Evergy_Haley & Aldrich
Date: July 16, 2025

General Information:
6 samples were analyzed for Total Radium Calculation by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: TEC BASA Perimeter Shallow RAD
Pace Project No.: 60477282

Sample: MW-15-061225 **Lab ID: 60477282001** Collected: 06/12/25 13:40 Received: 06/13/25 15:51 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	**0.147 ± 0.568 (1.04) C:NA T:95%**	pCi/L	07/14/25 13:45	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**1.57 ± 0.620 (0.961) C:83% T:80%**	pCi/L	07/11/25 14:59	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.72 ± 0.841 (1.04)**	pCi/L	07/15/25 10:07	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: TEC BASA Perimeter Shallow RAD
Pace Project No.: 60477282

Sample: MW-16-061225 **Lab ID: 60477282002** Collected: 06/12/25 11:45 Received: 06/13/25 15:51 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	**0.290 ± 0.536 (0.940) C:NA T:95%**	pCi/L	07/14/25 13:45	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.555 ± 0.384 (0.734) C:83% T:84%**	pCi/L	07/11/25 14:59	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.845 ± 0.659 (0.940)**	pCi/L	07/15/25 10:07	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: TEC BASA Perimeter Shallow RAD
Pace Project No.: 60477282

Sample: MW-17-061225 **Lab ID: 60477282003** Collected: 06/12/25 10:50 Received: 06/13/25 15:51 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	**0.686 ± 0.670 (1.07) C:NA T:93%**	pCi/L	07/14/25 13:45	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**1.73 ± 0.575 (0.763) C:83% T:82%**	pCi/L	07/11/25 14:59	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**2.42 ± 0.883 (1.07)**	pCi/L	07/15/25 10:07	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: TEC BASA Perimeter Shallow RAD
Pace Project No.: 60477282

Sample: MW-18-061125 **Lab ID: 60477282004** Collected: 06/11/25 13:35 Received: 06/13/25 15:51 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	**-0.380 ± 0.477 (1.04) C:NA T:95%**	pCi/L	07/14/25 13:45	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**2.26 ± 0.682 (0.854) C:82% T:83%**	pCi/L	07/11/25 14:59	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**2.26 ± 0.832 (1.04)**	pCi/L	07/15/25 10:07	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: TEC BASA Perimeter Shallow RAD
Pace Project No.: 60477282

Sample: MW-19-061125 **Lab ID: 60477282005** Collected: 06/11/25 12:05 Received: 06/13/25 15:51 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	**0.931 ± 0.696 (1.04) C:NA T:92%**	pCi/L	07/14/25 13:45	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**1.49 ± 0.561 (0.841) C:83% T:82%**	pCi/L	07/11/25 14:59	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**2.42 ± 0.894 (1.04)**	pCi/L	07/15/25 10:07	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: TEC BASA Perimeter Shallow RAD
Pace Project No.: 60477282

Sample: TEC-BASA-PERIMETER-DUP-061125 **Lab ID: 60477282006** Collected: 06/11/25 12:05 Received: 06/13/25 15:51 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	**0.243 ± 0.579 (1.03) C:NA T:94%**	pCi/L	07/14/25 13:45	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**1.77 ± 0.581 (0.773) C:82% T:83%**	pCi/L	07/11/25 14:59	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**2.01 ± 0.820 (1.03)**	pCi/L	07/15/25 10:07	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: TEC BASA Perimeter Shallow RAD
Pace Project No.: 60477282

QC Batch: 753668
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: 60477282001, 60477282002, 60477282003, 60477282004, 60477282005, 60477282006

METHOD BLANK: 3672444 Matrix: Water
Associated Lab Samples: 60477282001, 60477282002, 60477282003, 60477282004, 60477282005, 60477282006

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.107 ± 0.232 (0.428) C:NA T:97%	pCi/L	07/14/25 13:45	

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.

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QUALITY CONTROL - RADIOCHEMISTRY

Project: TEC BASA Perimeter Shallow RAD
Pace Project No.: 60477282

QC Batch: 753672
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: 60477282001, 60477282002, 60477282003, 60477282004, 60477282005, 60477282006

METHOD BLANK: 3672451 Matrix: Water
Associated Lab Samples: 60477282001, 60477282002, 60477282003, 60477282004, 60477282005, 60477282006

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.577 ± 0.355 (0.640) C:82% T:84%	pCi/L	07/11/25 14:59	

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.

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QUALIFIERS

Project: TEC BASA Perimeter Shallow RAD
Pace Project No.: 60477282

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.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: TEC BASA Perimeter Shallow RAD
Pace Project No.: 60477282

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60477282001	**MW-15-061225**	EPA 903.1	753668		
60477282002	**MW-16-061225**	EPA 903.1	753668		
60477282003	**MW-17-061225**	EPA 903.1	753668		
60477282004	**MW-18-061125**	EPA 903.1	753668		
60477282005	**MW-19-061125**	EPA 903.1	753668		
60477282006	**TEC-BASA-PERIMETER-DUP-061125**	EPA 903.1	753668		
60477282001	**MW-15-061225**	EPA 904.0	753672		
60477282002	**MW-16-061225**	EPA 904.0	753672		
60477282003	**MW-17-061225**	EPA 904.0	753672		
60477282004	**MW-18-061125**	EPA 904.0	753672		
60477282005	**MW-19-061125**	EPA 904.0	753672		
60477282006	**TEC-BASA-PERIMETER-DUP-061125**	EPA 904.0	753672		
60477282001	**MW-15-061225**	Total Radium Calculation	758075		
60477282002	**MW-16-061225**	Total Radium Calculation	758075		
60477282003	**MW-17-061225**	Total Radium Calculation	758075		
60477282004	**MW-18-061125**	Total Radium Calculation	758075		
60477282005	**MW-19-061125**	Total Radium Calculation	758075		
60477282006	**TEC-BASA-PERIMETER-DUP-061125**	Total Radium Calculation	758075		

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WO# : 60477282

60477282

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

Client Name: Evergy Kansas Central, INC.

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 ☑ ZPLC

Thermometer Used: T301 **Type of Ice:** Wet Blue (None)

Cooler Temperature (°C): **As-read** 29.9 **Corr. Factor** +0.1 **Corrected** 30.0

Date and initials of person examining contents:

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#:** 88127	☑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

6047282

Scan QR Code for instructions

Company Name:	Evergy Kansas Central, Inc.	Contact/Report To:	Jake Humphrey
Street Address:	818 S Kansas Avenue Topeka, KS 66612	Phone #:	(913)634-0605
		E-Mail:	jake.humphrey@evergy.com
		Cc E-Mail:	skaney@haleyaldrich.com
Customer Project #:			
Project Name:	TEC BASA PERIMETER - SHALLOW RADCHEM	Invoice To:	Tecumseh Center
		Invoice E-Mail:	evergyap@onlinecapturecenter.com
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	WSTR-2000094802
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [X] CT [ ] ET

County / State origin of sample(s): Kansas

Data Deliverables:
[ ] Level II [ ] Level III [ ] Level IV
[ ] EQUIS
[ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [ ] Yes [X] No

Rush (Pre-approval required):
[ ] Same Day [ ] 1 Day [ ] 2 Day [ ] 3 Day [ ] Other _____

DW PWSID # or WW Permit # as applicable: NA

Date Results Requested:

Field Filtered (if applicable): [ ] Yes [X] 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
Identify Container Preservative Type***: 2 2
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) 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: Alice Spiller
AcctNum / Client ID:
Table #:
Profile / Template: 16502
Prelog / Bottle Ord. ID: EZ 3266660

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	Radium 226	Radium 228+combined+QC Sheets	Sample Comment	Preservation non-conformance identified for sample.
MW-15-061225	GW	Grab	-	-	6/12/2025	1340	2	-	-	X	X		
MW-16-061225	GW	Grab	-	-	6/12/2025	1145	2	-	-	X	X		
MW-17-061225	GW	Grab	-	-	6/12/2025	1050	2	-	-	X	X		
MW-18-061125	GW	Grab	-	-	6/11/2025	1335	2	-	-	X	X		
MW-19-061125	GW	Grab	-	-	6/11/2025	1205	2	-	-	X	X		
TEC-BASA-PERIMETER-DUP-061125	GW	Grab	-	-	6/11/2025	1205	2	-	-	X	X		

Additional Instructions from Pace®:

Collected By: (Printed Name) Jason R. Franks
Signature: Jason R. Franks

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)	On Ice:
	T301	+0.1	29.9	30.0	Y

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
Jason R. Franks / SCS	06/13/2025 / 15:00	DF Pace	6/13 1551	
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 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/

Internal Transfer Chain of Custody

☐ Rush Multiplier_____X

☒ Samples Pre-Logged into eCOC

State Of Origin: KS

Cert. Needed: ☒ Yes ☐ No

Workorder: 60477282 **Workorder Name:** TEC BASA Perimeter Shallow RAD

Owner Received Date: 6/13/2025 **Results Requested By:** 7/15/2025

Report To	Subcontract To
Alice Spiller Pace Analytical Kansas 9608 Loiret Blvd. Lenexa, KS 66219 Phone (913)599-5665	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: QC Sheets	Radium 226	Radium 228 and combined										LAB USE ONLY
1	MW-15-061225	PS	6/12/2025 13:40	60477282001	Water	2						X	X	X										001
2	MW-16-061225	PS	6/12/2025 11:45	60477282002	Water	2						X	X	X										002
3	MW-17-061225	PS	6/12/2025 10:50	60477282003	Water	2						X	X	X										003
4	MW-18-061125	PS	6/11/2025 13:35	60477282004	Water	2						X	X	X										004
5	MW-19-061125	PS	6/11/2025 12:05	60477282005	Water	2						X	X	X										005
6	TEC-BASA-PERIMETER-DUP-061125	PS	6/11/2025 12:05	60477282006	Water	2						X	X	X										006

Transfers	Released By	Date/Time	Received By	Date/Time
1			Matthew Smith	6/19/25 10:10
2				
3				

Comments

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# : 30788690

30788690

DC#_Title: ENV-FRM-GBUR-0088 v07_Sample Condition Upon Receipt-Greensburg

Effective Date: 01/04/2024

WO# : 30788690

PM: CMC Due Date: 07/18/25

CLIENT: PACE_60_LEKS

Client Name: Pace Kansas Pro

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other

Tracking Number: 4453 8933 1441

Initial / Date

Examined By: MS 6/19/25

Labeled By: MS 6/19/25

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

Comments:	Yes	No	NA	pH paper Lot# 10D43241 / 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.
-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 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: 6/19/25 / 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

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Test:	Ra-226
Analyst:	LL1
Date:	7/2/2025
Batch ID:	85822
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3672444
MB concentration:	0.107
M/B 2 Sigma CSU:	0.232
MB MDC:	0.428
MB Numerical Performance Indicator:	0.90
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	N/A

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS85822	LCSD85822
Count Date:	7/14/2025	7/14/2025
Spike I.D.:	24-046	24-046
Spike Concentration (pCi/mL):	31.829	31.829
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.650	0.650
Target Conc. (pCi/L, g, F):	4.894	4.893
Uncertainty (Calculated):	0.230	0.230
Result (pCi/L, g, F):	4.071	4.178
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	1.085	1.034
Numerical Performance Indicator:	-1.45	-1.32
Percent Recovery:	83.18%	85.39%
Status vs Numerical Indicator:	Pass	Pass
Status vs Recovery:	N/A	N/A
Upper % Recovery Limits:	133%	133%
Lower % Recovery Limits:	73%	73%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS85822	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD85822	
Sample Result (pCi/L, g, F):	4.071	
Sample Result 2 Sigma CSU (pCi/L, g, F):	1.085	
Sample Duplicate Result (pCi/L, g, F):	4.178	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.034	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	-0.140	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	2.62%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	N/A	
% RPD Limit:	32%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the RL.

Comments:

W 071425

TY 7-14-25

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test:	Ra-228
Analyst:	ZPC
Date:	7/8/2025
Worklist:	85825
Matrix:	WT

Method Blank Assessment	
MB Sample ID	3672451
MB concentration:	0.577
M/B 2 Sigma CSU:	0.355
MB MDC:	0.640
MB Numerical Performance Indicator:	3.19
MB Status vs Numerical Indicator:	Fail*
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS85825	**LCSD85825**
Count Date:	7/11/2025	7/11/2025
Spike I.D.:	23-043	23-043
Decay Corrected Spike Concentration (pCi/mL):	31.967	31.967
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.818	0.820
Target Conc. (pCi/L, g, F):	3.907	3.898
Uncertainty (Calculated):	0.191	0.191
Result (pCi/L, g, F):	3.711	3.988
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.901	0.945
Numerical Performance Indicator:	-0.42	0.18
Percent Recovery:	94.97%	102.32%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

Duplicate Sample Assessment		
Sample I.D.:	LCS85825	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD85825	
Sample Result (pCi/L, g, F):	3.711	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.901	
Sample Duplicate Result (pCi/L, g, F):	3.988	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.945	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	-0.417	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	7.45%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	36%	

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

~~*If the lowest activity sample in this batch is greater than ten times the blank value, the blank is acceptable; otherwise this batch must be re-prepped.~~

MB activity < MDC, Pass

7/14/25

VAL

7/15/25

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

July 16, 2025

Jake Humphrey
Evergy, Inc.
818 S Kansas Avenue
Topeka, KS 66612

RE: Project: TEC BASA RAD
Pace Project No.: 60477283

Dear Jake Humphrey:

Enclosed are the analytical results for sample(s) received by the laboratory on June 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 - Greensburg

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

Sincerely,

Alice Spiller

Alice Spiller
alice.spiller@pacelabs.com
(913)599-5665
PM Lab Management

Enclosures

cc: Samantha Kaney, Haley & Aldrich
Melanie Satanek, Haley & Aldrich, Inc.
Adriana Sosa, Haley & Aldrich, Inc.
Nick Williams, Haley Aldrich

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

CERTIFICATIONS

Project: TEC BASA RAD
Pace Project No.: 60477283

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

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

SAMPLE SUMMARY

Project: TEC BASA RAD
Pace Project No.: 60477283

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60477283001	**MW-7-061325**	Water	06/13/25 10:05	06/13/25 15:51
60477283002	**MW-8-061325**	Water	06/13/25 08:55	06/13/25 15:51
60477283003	**MW-10-061225**	Water	06/12/25 11:00	06/13/25 15:51
60477283004	**MW-11A-061225**	Water	06/12/25 09:35	06/13/25 15:51
60477283005	**MW-12-061225**	Water	06/12/25 12:45	06/13/25 15:51
60477283006	**MW-13-061225**	Water	06/12/25 14:20	06/13/25 15:51
60477283007	**MW-14-061225**	Water	06/12/25 15:50	06/13/25 15:51
60477283008	**TEC-BASA-DUP-061325**	Water	06/13/25 10:05	06/13/25 15:51

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

SAMPLE ANALYTE COUNT

Project: TEC BASA RAD
Pace Project No.: 60477283

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60477283001	**MW-7-061325**	EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
60477283002	**MW-8-061325**	EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
60477283003	**MW-10-061225**	EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
60477283004	**MW-11A-061225**	EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
60477283005	**MW-12-061225**	EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
60477283006	**MW-13-061225**	EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
60477283007	**MW-14-061225**	EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
60477283008	**TEC-BASA-DUP-061325**	EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

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(913)599-5665

PROJECT NARRATIVE

Project: TEC BASA RAD
Pace Project No.: 60477283

Method: **EPA 903.1**
Description: 903.1 Radium 226
Client: Evergy_Haley & Aldrich
Date: July 16, 2025

General Information:
8 samples were analyzed for EPA 903.1 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA RAD
Pace Project No.: 60477283

Method: **EPA 904.0**
Description: 904.0 Radium 228
Client: Evergy_Haley & Aldrich
Date: July 16, 2025

General Information:
8 samples were analyzed for EPA 904.0 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA RAD
Pace Project No.: 60477283

Method: **Total Radium Calculation**
Description: Total Radium 228+226
Client: Evergy_Haley & Aldrich
Date: July 16, 2025

General Information:
8 samples were analyzed for Total Radium Calculation by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: TEC BASA RAD
Pace Project No.: 60477283

Sample: MW-7-061325 **Lab ID: 60477283001** Collected: 06/13/25 10:05 Received: 06/13/25 15:51 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	**-0.190 ± 0.476 (0.985) C:NA T:92%**	pCi/L	07/14/25 13:57	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.768 ± 0.430 (0.773) C:78% T:88%**	pCi/L	07/11/25 15:00	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.768 ± 0.641 (0.985)**	pCi/L	07/15/25 10:07	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: TEC BASA RAD
Pace Project No.: 60477283

Sample: MW-8-061325 **Lab ID: 60477283002** Collected: 06/13/25 08:55 Received: 06/13/25 15:51 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	**0.0982 ± 0.680 (1.25) C:NA T:93%**	pCi/L	07/14/25 13:57	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.755 ± 0.470 (0.878) C:81% T:78%**	pCi/L	07/11/25 15:00	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.853 ± 0.827 (1.25)**	pCi/L	07/15/25 10:07	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: TEC BASA RAD
Pace Project No.: 60477283

Sample: MW-10-061225 **Lab ID: 60477283003** Collected: 06/12/25 11:00 Received: 06/13/25 15:51 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	**1.34 ± 0.775 (1.08) C:NA T:89%**	pCi/L	07/14/25 13:57	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**2.85 ± 0.778 (0.820) C:82% T:80%**	pCi/L	07/11/25 15:00	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**4.19 ± 1.10 (1.08)**	pCi/L	07/15/25 10:07	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: TEC BASA RAD
Pace Project No.: 60477283

Sample: MW-11A-061225 **Lab ID: 60477283004** Collected: 06/12/25 09:35 Received: 06/13/25 15:51 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	**0.625 ± 0.690 (1.13) C:NA T:90%**	pCi/L	07/14/25 13:45	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**1.75 ± 0.582 (0.789) C:86% T:82%**	pCi/L	07/11/25 15:00	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**2.38 ± 0.903 (1.13)**	pCi/L	07/15/25 10:07	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: TEC BASA RAD
Pace Project No.: 60477283

Sample: MW-12-061225 **Lab ID: 60477283005** Collected: 06/12/25 12:45 Received: 06/13/25 15:51 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	**0.0961 ± 0.421 (0.800) C:NA T:92%**	pCi/L	07/14/25 13:57	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**1.74 ± 0.611 (0.897) C:79% T:87%**	pCi/L	07/11/25 15:00	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.84 ± 0.742 (0.897)**	pCi/L	07/15/25 10:07	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: TEC BASA RAD
Pace Project No.: 60477283

Sample: MW-13-061225 **Lab ID: 60477283006** Collected: 06/12/25 14:20 Received: 06/13/25 15:51 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	**-0.0922 ± 0.557 (1.08) C:NA T:93%**	pCi/L	07/14/25 13:57	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.483 ± 0.403 (0.806) C:83% T:80%**	pCi/L	07/11/25 15:00	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.483 ± 0.688 (1.08)**	pCi/L	07/15/25 10:07	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: TEC BASA RAD
Pace Project No.: 60477283

Sample: MW-14-061225 **Lab ID: 60477283007** Collected: 06/12/25 15:50 Received: 06/13/25 15:51 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	**0.904 ± 0.420 (0.129) C:NA T:93%**	pCi/L	07/14/25 13:57	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**1.47 ± 0.506 (0.666) C:81% T:88%**	pCi/L	07/11/25 15:00	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**2.37 ± 0.658 (0.666)**	pCi/L	07/15/25 10:07	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: TEC BASA RAD
Pace Project No.: 60477283

Sample: TEC-BASA-DUP-061325 **Lab ID: 60477283008** Collected: 06/13/25 10:05 Received: 06/13/25 15:51 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	**0.202 ± 0.525 (0.951) C:NA T:94%**	pCi/L	07/14/25 13:57	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.437 ± 0.412 (0.840) C:78% T:80%**	pCi/L	07/11/25 15:00	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.639 ± 0.667 (0.951)**	pCi/L	07/15/25 10:07	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: TEC BASA RAD
Pace Project No.: 60477283

QC Batch: 753668
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: 60477283001, 60477283002, 60477283003, 60477283004, 60477283005, 60477283006, 60477283007, 60477283008

METHOD BLANK: 3672444 Matrix: Water
Associated Lab Samples: 60477283001, 60477283002, 60477283003, 60477283004, 60477283005, 60477283006, 60477283007, 60477283008

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.107 ± 0.232 (0.428) C:NA T:97%	pCi/L	07/14/25 13:45	

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

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QUALITY CONTROL - RADIOCHEMISTRY

Project: TEC BASA RAD
Pace Project No.: 60477283

QC Batch: 753672
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: 60477283001, 60477283002, 60477283003, 60477283004, 60477283005, 60477283006, 60477283007, 60477283008

METHOD BLANK: 3672451 Matrix: Water
Associated Lab Samples: 60477283001, 60477283002, 60477283003, 60477283004, 60477283005, 60477283006, 60477283007, 60477283008

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.577 ± 0.355 (0.640) C:82% T:84%	pCi/L	07/11/25 14:59	

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.

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QUALIFIERS

Project: TEC BASA RAD
Pace Project No.: 60477283

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.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: TEC BASA RAD
Pace Project No.: 60477283

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60477283001	**MW-7-061325**	EPA 903.1	753668		
60477283002	**MW-8-061325**	EPA 903.1	753668		
60477283003	**MW-10-061225**	EPA 903.1	753668		
60477283004	**MW-11A-061225**	EPA 903.1	753668		
60477283005	**MW-12-061225**	EPA 903.1	753668		
60477283006	**MW-13-061225**	EPA 903.1	753668		
60477283007	**MW-14-061225**	EPA 903.1	753668		
60477283008	**TEC-BASA-DUP-061325**	EPA 903.1	753668		
60477283001	**MW-7-061325**	EPA 904.0	753672		
60477283002	**MW-8-061325**	EPA 904.0	753672		
60477283003	**MW-10-061225**	EPA 904.0	753672		
60477283004	**MW-11A-061225**	EPA 904.0	753672		
60477283005	**MW-12-061225**	EPA 904.0	753672		
60477283006	**MW-13-061225**	EPA 904.0	753672		
60477283007	**MW-14-061225**	EPA 904.0	753672		
60477283008	**TEC-BASA-DUP-061325**	EPA 904.0	753672		
60477283001	**MW-7-061325**	Total Radium Calculation	758075		
60477283002	**MW-8-061325**	Total Radium Calculation	758075		
60477283003	**MW-10-061225**	Total Radium Calculation	758075		
60477283004	**MW-11A-061225**	Total Radium Calculation	758075		
60477283005	**MW-12-061225**	Total Radium Calculation	758075		
60477283006	**MW-13-061225**	Total Radium Calculation	758075		
60477283007	**MW-14-061225**	Total Radium Calculation	758075		
60477283008	**TEC-BASA-DUP-061325**	Total Radium Calculation	758075		

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Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-LENE-0009_Samp	WO# : 60477283
	Revision: 2	Effective Date: 01/12/20

60477283

Client Name: Evergy Kansas Central, Inc.

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 ☑ 2PLC

Thermometer Used: T301 **Type of Ice:** Wet Blue None

Cooler Temperature (°C): **As-read** 26.7 **Corr. Factor** +0.1 **Corrected** 26.8

Date and initials of person examining contents: JA 6/14/25

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? (HNO3, H2SO4, HCl<2; NaOH>9 Sulfide, NaOH>10 Cyanide) (Exceptions: VOA, Micro, O&G, KS TPH, OK-DRO) **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® 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

60477283

Scan QR Code for instructions

Company Name:	Evergy Kansas Central, Inc.	Contact/Report To:	Jake Humphrey
Street Address:	818 S Kansas Avenue Topeka, KS 66612	Phone #:	(913)634-0605
		E-Mail:	jake.humphrey@evergy.com
		Cc E-Mail:	skaney@haleyaldrich.com
Customer Project #:			
Project Name:	TEC BASA RADCHEM	Invoice To:	Tecumseh Center
		Invoice E-Mail:	apinvoicing@evergy.com
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	WSTR-2000094802
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [X] CT [ ] ET

County / State origin of sample(s): Kansas

Data Deliverables:
[ ] Level II [ ] Level III [ ] Level IV
[ ] EQUIS
[ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [ ] Yes [X] No

Rush (Pre-approval required):
[ ] Same Day [ ] 1 Day [ ] 2 Day [ ] 3 Day [ ] Other _____

DW PWSID # or WW Permit # as applicable: NA

Date Results Requested:

Field Filtered (if applicable): [ ] Yes [X] 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
Identify Container Preservative Type***: 2 2
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: Alice Spiller
AcctNum / Client ID:
Table #:
Profile / Template: 16502
Prelog / Bottle Ord. ID: EZ 3266657

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	Radium 226	Radium 228+combined+QC Sheets	Sample Comment	Preservation non-conformance identified for sample.
MW-7-061325	WT	Grab	-	-	6/13/2025	1005	2	-	-	X	X		
MW-8-061325	WT	Grab	-	-	6/13/2025	855	2	-	-	X	X		
MW-9-061325	NS	NS	-	-	NS	NS	NS	-	-	-	-	NS - No Sample; Insufficient Groundwater	
MW-10-061225	WT	Grab	-	-	6/12/2025	1100	2	-	-	X	X		
MW-11A-061225	WT	Grab	-	-	6/12/2025	935	2	-	-	X	X		
MW-12-061225	WT	Grab	-	-	6/12/2025	1245	2	-	-	X	X		
MW-13-061225	WT	Grab	-	-	6/12/2025	1420	2	-	-	X	X		
MW-14-061225	WT	Grab	-	-	6/12/2025	1550	2	-	-	X	X		
TEC-BASA-DUP-061325	WT	Grab	-	-	6/13/2025	1005	2	-	-	X	X		

Additional Instructions from Pace®:

Collected By:
(Printed Name): Jason R. Franks
Signature: Jason R. Franks

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)	On Ice:
				26.8	

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
Jason R. Franks / SCS	06/13/2025 / 15:00	DF Pace	6/13 1551	
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 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/

Internal Transfer Chain of Custody

☐ Rush Multiplier_____X

☒ Samples Pre-Logged into eCOC

Workorder: 60477283 **Workorder Name:** TEC BASA RAD

State Of Origin: KS

Cert. Needed: ☒ Yes ☐ No

Owner Received Date: 6/13/2025 **Results Requested By:** 7/15/2025

Report To

Alice Spiller
Pace Analytical Kansas
9608 Loiret Blvd.
Lenexa, KS 66219
Phone (913)599-5665

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 QC Sheets	Radium 226	Radium 228 and combined										LAB USE ONLY
1	MW-7-061325	PS	6/13/2025 10:05	60477283001	Water	2						X	X	X										001
2	MW-8-061325	PS	6/13/2025 08:55	60477283002	Water	2						X	X	X										002
3	MW-10-061225	PS	6/12/2025 11:00	60477283003	Water	2						X	X	X										003
4	MW-11A-061225	PS	6/12/2025 09:35	60477283004	Water	2						X	X	X										004
5	MW-12-061225	PS	6/12/2025 12:45	60477283005	Water	2						X	X	X										005
6	MW-13-061225	PS	6/12/2025 14:20	60477283006	Water	2						X	X	X										006
7	MW-14-061225	PS	6/12/2025 15:50	60477283007	Water	2						X	X	X										007
8	TEC-BASA-DUP-061325	PS	6/13/2025 10:05	60477283008	Water	2						X	X	X										008

Transfers	Released By	Date/Time	Received By	Date/Time
1			Matthew Smith	6/19/25 10:10
2				
3				

Comments

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# : 30788696

30788696

DC#_Title: ENV-FRM-GBUR-0088 v07_Sample Condition Upon Receipt-Greensburg

Effective Date: 01/04/2024

WO# : 30788696

PM: CMC Due Date: 07/18/25

CLIENT: PACE_60_LEKS

Client Name: Pace Kansas Pr

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other

Tracking Number: 4453 8933 1420

Initial / Date

Examined By: MS 6/19/25

Labeled By: MS 6/19/25

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

Comments:	Yes	No	NA	pH paper Lot# 10D43241 / 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.
-Includes date/time/ID Matrix:	UT			
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: exceptions: VOA, coliform, TOC, O&G, Phenolics, 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: 6/19/25 / 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

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Test:	Ra-226
Analyst:	LL1
Date:	7/2/2025
Batch ID:	85822
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3672444
MB concentration:	0.107
M/B 2 Sigma CSU:	0.232
MB MDC:	0.428
MB Numerical Performance Indicator:	0.90
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	N/A

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS85822	LCSD85822
Count Date:	7/14/2025	7/14/2025
Spike I.D.:	24-046	24-046
Spike Concentration (pCi/mL):	31.829	31.829
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.650	0.650
Target Conc. (pCi/L, g, F):	4.894	4.893
Uncertainty (Calculated):	0.230	0.230
Result (pCi/L, g, F):	4.071	4.178
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	1.085	1.034
Numerical Performance Indicator:	-1.45	-1.32
Percent Recovery:	83.18%	85.39%
Status vs Numerical Indicator:	Pass	Pass
Status vs Recovery:	N/A	N/A
Upper % Recovery Limits:	133%	133%
Lower % Recovery Limits:	73%	73%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS85822	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD85822	
Sample Result (pCi/L, g, F):	4.071	
Sample Result 2 Sigma CSU (pCi/L, g, F):	1.085	
Sample Duplicate Result (pCi/L, g, F):	4.178	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.034	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	-0.140	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	2.62%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	N/A	
% RPD Limit:	32%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the RL.

Comments:

W 071425

TY 7-14-25

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test:	Ra-228
Analyst:	ZPC
Date:	7/8/2025
Worklist:	85825
Matrix:	WT

Method Blank Assessment	
MB Sample ID	3672451
MB concentration:	0.577
M/B 2 Sigma CSU:	0.355
MB MDC:	0.640
MB Numerical Performance Indicator:	3.19
MB Status vs Numerical Indicator:	Fail*
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS85825	LCSD85825
Count Date:	7/11/2025	7/11/2025
Spike I.D.:	23-043	23-043
Decay Corrected Spike Concentration (pCi/mL):	31.967	31.967
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.818	0.820
Target Conc. (pCi/L, g, F):	3.907	3.898
Uncertainty (Calculated):	0.191	0.191
Result (pCi/L, g, F):	3.711	3.988
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.901	0.945
Numerical Performance Indicator:	-0.42	0.18
Percent Recovery:	94.97%	102.32%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS85825	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD85825	
Sample Result (pCi/L, g, F):	3.711	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.901	
Sample Duplicate Result (pCi/L, g, F):	3.988	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.945	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	-0.417	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	7.45%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	36%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

~~*If the lowest activity sample in this batch is greater than ten times the blank value, the blank is acceptable; otherwise this batch must be re-prepped.~~

MB activity < MDC, Pass

7/14/25

VAL

7/15/25

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

August 12, 2025

Jake Humphrey
Evergy, Inc.
818 S Kansas Avenue
Topeka, KS 66612

RE: Project: TEC BASA Additional-Revised Report
Pace Project No.: 60477285

Dear Jake Humphrey:

Enclosed are the analytical results for sample(s) received by the laboratory on June 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 - Indianapolis
- Pace Analytical Services - Kansas City

REVISED to report data down to the MDL per client request. Include NO2NO3 data.

Revised Report: This replaces the report dated 7/2/25. The revision was made to add Nitrate + Nitrite analysis and remove ammonia per the COC. RAR 8/11/25

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

Sincerely,

Alice Spiller

Alice Spiller
alice.spiller@pacelabs.com
(913)599-5665
PM Lab Management

Enclosures

cc: Samantha Kaney, Haley & Aldrich
Melanie Satanek, Haley & Aldrich, Inc.
Adriana Sosa, Haley & Aldrich, Inc.
Nick Williams, Haley Aldrich

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9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

CERTIFICATIONS

Project: TEC BASA Additional-Revised Report
Pace Project No.: 60477285

Pace Analytical Services Indianapolis

7726 Moller Road, Indianapolis, IN 46268
Illinois Accreditation #: 200074
Indiana Drinking Water Laboratory #: C-49-06
Kansas/TNI Certification #: E-10177
Kentucky UST Agency Interest #: 80226
Kentucky WW Laboratory ID #: 98019
Louisiana Certification #: 04076
Michigan Drinking Water Laboratory #9050
Oklahoma Laboratory #: 9204
Texas Certification #: T104704355
Washington Dept of Ecology #: C1081
Wisconsin Laboratory #: 999788130
USDA Foreign Soil Permit #: 525-23-13-23119
USDA Compliance Agreement #: IN-SL-22-001

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

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Lenexa, KS 66219
(913)599-5665

SAMPLE SUMMARY

Project: TEC BASA Additional-Revised Report
Pace Project No.: 60477285

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60477285001	**MW-7-061325**	Water	06/13/25 10:05	06/13/25 15:51
60477285002	**MW-8-061325**	Water	06/13/25 08:55	06/13/25 15:51
60477285003	**MW-10-061225**	Water	06/12/25 11:00	06/13/25 15:51
60477285004	**MW-11A-061225**	Water	06/12/25 09:35	06/13/25 15:51
60477285005	**MW-12-061225**	Water	06/12/25 12:45	06/13/25 15:51
60477285006	**MW-13-061225**	Water	06/12/25 14:20	06/13/25 15:51
60477285007	**MW-14061225**	Water	06/12/25 15:50	06/13/25 15:51
60477285008	**TEC-BASA-DUP-061325**	Water	06/13/25 10:05	06/13/25 15:51

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SAMPLE ANALYTE COUNT

Project: TEC BASA Additional-Revised Report
Pace Project No.: 60477285

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60477285001	**MW-7-061325**	EPA 200.7	ARMN	6	PASI-K
		EPA 200.7	ARMN	1	PASI-K
		EPA 200.8	JGP	3	PASI-K
		EPA 200.8	JGP	5	PASI-K
		SM 2320B	EFM	3	PASI-K
		SM 2540C	CAR	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
		EPA 353.2	KCS	1	PASI-I
		EPA 365.1	JTR	1	PASI-I
		SM 5310C	EFM	1	PASI-K
		SM 5310C	EFM	1	PASI-K
60477285002	**MW-8-061325**	EPA 200.7	ARMN	6	PASI-K
		EPA 200.7	ARMN	1	PASI-K
		EPA 200.8	JGP	3	PASI-K
		EPA 200.8	JGP	5	PASI-K
		SM 2320B	EFM	3	PASI-K
		SM 2540C	CAR	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	2	PASI-K
		EPA 300.0	MLD	3	PASI-K
		EPA 353.2	KCS	1	PASI-I
		EPA 365.1	JTR	1	PASI-I
		SM 5310C	EFM	1	PASI-K
		SM 5310C	EFM	1	PASI-K
60477285003	**MW-10-061225**	EPA 200.7	ARMN	6	PASI-K
		EPA 200.7	ARMN	1	PASI-K
		EPA 200.8	JGP	3	PASI-K
		EPA 200.8	JGP	5	PASI-K
		SM 2320B	EFM	3	PASI-K
		SM 2540C	CAR	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
		EPA 353.2	KCS	1	PASI-I

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Pace Analytical Services, LLC
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Lenexa, KS 66219
(913)599-5665

SAMPLE ANALYTE COUNT

Project: TEC BASA Additional-Revised Report
Pace Project No.: 60477285

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 365.1	JTR	1	PASI-I
		SM 5310C	EFM	1	PASI-K
		SM 5310C	EFM	1	PASI-K
60477285004	**MW-11A-061225**	EPA 200.7	ARMN	6	PASI-K
		EPA 200.7	ARMN	1	PASI-K
		EPA 200.8	JGP	3	PASI-K
		EPA 200.8	JGP	5	PASI-K
		SM 2320B	EFM	3	PASI-K
		SM 2540C	CAR	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
		EPA 353.2	KCS	1	PASI-I
		EPA 365.1	JTR	1	PASI-I
		SM 5310C	EFM	1	PASI-K
		SM 5310C	EFM	1	PASI-K
60477285005	**MW-12-061225**	EPA 200.7	ARMN	6	PASI-K
		EPA 200.7	ARMN	1	PASI-K
		EPA 200.8	JGP	3	PASI-K
		EPA 200.8	JGP	5	PASI-K
		SM 2320B	EFM	3	PASI-K
		SM 2540C	CAR	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
		EPA 353.2	KCS	1	PASI-I
		EPA 365.1	JTR	1	PASI-I
		SM 5310C	EFM	1	PASI-K
		SM 5310C	EFM	1	PASI-K
60477285006	**MW-13-061225**	EPA 200.7	ARMN	6	PASI-K
		EPA 200.7	ARMN	1	PASI-K
		EPA 200.8	JGP	3	PASI-K
		EPA 200.8	JGP	5	PASI-K
		SM 2320B	EFM	3	PASI-K
		SM 2540C	CAR	1	PASI-K
		SM 3500-Fe B#4	DLJ	1	PASI-K
		SM 4500-S-2 D	DLJ	1	PASI-K

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: TEC BASA Additional-Revised Report
Pace Project No.: 60477285

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 300.0	MLD	3	PASI-K
		EPA 353.2	KCS	1	PASI-I
		EPA 365.1	JTR	1	PASI-I
		SM 5310C	EFM	1	PASI-K
		SM 5310C	EFM	1	PASI-K
60477285007	**MW-14061225**	EPA 200.7	ARMN	6	PASI-K
		EPA 200.7	ARMN	1	PASI-K
		EPA 200.8	JGP	3	PASI-K
		EPA 200.8	JGP	5	PASI-K
		SM 2320B	EFM	3	PASI-K
		SM 2540C	CAR	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
		EPA 353.2	KCS	1	PASI-I
		EPA 365.1	JTR	1	PASI-I
		SM 5310C	EFM	1	PASI-K
		SM 5310C	EFM	1	PASI-K
60477285008	**TEC-BASA-DUP-061325**	EPA 200.7	ARMN	6	PASI-K
		EPA 200.7	ARMN	1	PASI-K
		EPA 200.8	JGP	3	PASI-K
		EPA 200.8	JGP	5	PASI-K
		SM 2320B	EFM	3	PASI-K
		SM 2540C	CAR	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
		EPA 353.2	KCS	1	PASI-I
		EPA 365.1	JTR	1	PASI-I
		SM 5310C	EFM	1	PASI-K
		SM 5310C	EFM	1	PASI-K

PASI-I = Pace Analytical Services - Indianapolis
PASI-K = Pace Analytical Services - Kansas City

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PROJECT NARRATIVE

Project: TEC BASA Additional-Revised Report
Pace Project No.: 60477285

Method: **EPA 200.7**
Description: 200.7 Metals, Total
Client: Evergy_Haley & Aldrich
Date: August 12, 2025

General Information:
8 samples were analyzed for EPA 200.7 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 200.7 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 938598

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60477285002,60477292002

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 3721421)
  - Calcium
  - Sodium
- MS (Lab ID: 3721423)
  - Calcium
  - Magnesium
  - Sodium

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA Additional-Revised Report
Pace Project No.: 60477285

Method: **EPA 200.7**
Description: 200.7 Metals, Dissolved
Client: Evergy_Haley & Aldrich
Date: August 12, 2025

General Information:
8 samples were analyzed for EPA 200.7 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 200.7 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA Additional-Revised Report
Pace Project No.: 60477285

Method: **EPA 200.8**
Description: 200.8 MET ICPMS
Client: Evergy_Haley & Aldrich
Date: August 12, 2025

General Information:
8 samples were analyzed for EPA 200.8 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 200.8 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 938597

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60477285001,60477292003

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 3721418)
  - Manganese

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: TEC BASA Additional-Revised Report
Pace Project No.: 60477285

Method: **EPA 200.8**
Description: 200.8 MET ICPMS, Dissolved
Client: Evergy_Haley & Aldrich
Date: August 12, 2025

General Information:
8 samples were analyzed for EPA 200.8 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 200.8 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA Additional-Revised Report
Pace Project No.: 60477285

Method: **SM 2320B**
Description: 2320B Alkalinity
Client: Evergy_Haley & Aldrich
Date: August 12, 2025

General Information:
8 samples were analyzed for SM 2320B by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA Additional-Revised Report
Pace Project No.: 60477285

Method: **SM 2540C**
Description: 2540C Total Dissolved Solids
Client: Evergy_Haley & Aldrich
Date: August 12, 2025

General Information:
8 samples were analyzed for SM 2540C by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA Additional-Revised Report
Pace Project No.: 60477285

Method: **SM 3500-Fe B#4**
Description: Iron, Ferrous
Client: Evergy_Haley & Aldrich
Date: August 12, 2025

General Information:
8 samples were analyzed for SM 3500-Fe B#4 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

H6: Analysis initiated outside of the 15 minute EPA required holding time.
- MW-10-061225 (Lab ID: 60477285003)
- MW-11A-061225 (Lab ID: 60477285004)
- MW-12-061225 (Lab ID: 60477285005)
- MW-13-061225 (Lab ID: 60477285006)
- MW-14061225 (Lab ID: 60477285007)
- MW-7-061325 (Lab ID: 60477285001)
- MW-8-061325 (Lab ID: 60477285002)
- TEC-BASA-DUP-061325 (Lab ID: 60477285008)

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA Additional-Revised Report
Pace Project No.: 60477285

Method: **SM 4500-S-2 D**
Description: 4500S2D Sulfide, Total
Client: Evergy_Haley & Aldrich
Date: August 12, 2025

General Information:
8 samples were analyzed for SM 4500-S-2 D by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 938793

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60477292004

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 3722007)
  - Sulfide, Total
- MSD (Lab ID: 3722008)
  - Sulfide, Total

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA Additional-Revised Report
Pace Project No.: 60477285

Method: **EPA 300.0**
Description: 300.0 IC Anions
Client: Evergy_Haley & Aldrich
Date: August 12, 2025

General Information:
1 sample was analyzed for EPA 300.0 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 938578

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60477285002,60477292001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 3721326)
  - Nitrate as N
  - Nitrite as N
- MS (Lab ID: 3721327)
  - Nitrate as N
- MSD (Lab ID: 3721328)
  - Nitrate as N

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA Additional-Revised Report
Pace Project No.: 60477285

Method: **EPA 300.0**
Description: 300.0 IC Anions 28 Days
Client: Evergy_Haley & Aldrich
Date: August 12, 2025

General Information:
8 samples were analyzed for EPA 300.0 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 940067

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60476421003,60477285007

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 3727000)
  - Fluoride
  - Sulfate
- MS (Lab ID: 3727002)
  - Chloride
  - Sulfate
- MSD (Lab ID: 3727001)
  - Chloride
  - Fluoride
  - Sulfate

QC Batch: 940891

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60477285003

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MSD (Lab ID: 3730231)
  - Chloride

Additional Comments:

Analyte Comments:

QC Batch: 940067

E: Analyte concentration exceeded the calibration range. The reported result is estimated.

- MS (Lab ID: 3727002)
  - Sulfate

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PROJECT NARRATIVE

Project: TEC BASA Additional-Revised Report
Pace Project No.: 60477285

Method: **EPA 353.2**
Description: 353.2 Nitrogen, NO2/NO3 pres.
Client: Evergy_Haley & Aldrich
Date: August 12, 2025

General Information:
8 samples were analyzed for EPA 353.2 by Pace Analytical Services Indianapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

H1: Analysis conducted outside the recognized method holding time.
- MW-10-061225 (Lab ID: 60477285003)
- MW-11A-061225 (Lab ID: 60477285004)
- MW-12-061225 (Lab ID: 60477285005)
- MW-13-061225 (Lab ID: 60477285006)
- MW-14061225 (Lab ID: 60477285007)
- MW-7-061325 (Lab ID: 60477285001)
- MW-8-061325 (Lab ID: 60477285002)
- TEC-BASA-DUP-061325 (Lab ID: 60477285008)

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA Additional-Revised Report
Pace Project No.: 60477285

Method: **EPA 365.1**
Description: 365.1 Total Phosphorus
Client: Evergy_Haley & Aldrich
Date: August 12, 2025

General Information:
8 samples were analyzed for EPA 365.1 by Pace Analytical Services Indianapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 365.1 with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA Additional-Revised Report
Pace Project No.: 60477285

Method: **SM 5310C**
Description: 5310C TOC
Client: Evergy_Haley & Aldrich
Date: August 12, 2025

General Information:
8 samples were analyzed for SM 5310C by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA Additional-Revised Report
Pace Project No.: 60477285

Method: **SM 5310C**
Description: 5310C Dissolved Organic Carbon
Client: Evergy_Haley & Aldrich
Date: August 12, 2025

General Information:
8 samples were analyzed for SM 5310C by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: 940422

D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

- DUP (Lab ID: 3728475)
  - Dissolved Organic Carbon
- MW-10-061225 (Lab ID: 60477285003)
  - Dissolved Organic Carbon
- MW-12-061225 (Lab ID: 60477285005)
  - Dissolved Organic Carbon

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: TEC BASA Additional-Revised Report
Pace Project No.: 60477285

Sample: MW-7-061325 **Lab ID: 60477285001** Collected: 06/13/25 10:05 Received: 06/13/25 15:51 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, Total Recoverable	**0.066**	mg/L	0.0050	0.00075	1	06/16/25 09:05	07/02/25 12:51	7440-39-3	
Calcium, Total Recoverable	**132**	mg/L	0.20	0.045	1	06/16/25 09:05	07/02/25 12:51	7440-70-2	
Magnesium, Total Recoverable	**22.6**	mg/L	0.050	0.021	1	06/16/25 09:05	07/02/25 12:51	7439-95-4	
Potassium, Total Recoverable	**3.1**	mg/L	0.50	0.045	1	06/16/25 09:05	07/02/25 12:51	7440-09-7	
Sodium, Total Recoverable	**179**	mg/L	0.50	0.032	1	06/16/25 09:05	07/02/25 12:51	7440-23-5	
Total Hardness by 2340B, Total Recoverable	**422**	mg/L	0.50	0.20	1	06/16/25 09:05	07/02/25 12:51		
200.7 Metals, Dissolved	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City								
Magnesium, Dissolved	**22.5**	mg/L	0.050	0.021	1	06/16/25 09:05	07/01/25 17:02	7439-95-4	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Aluminum, Total Recoverable	**0.071**	mg/L	0.050	0.0082	1	06/16/25 09:05	06/25/25 14:58	7429-90-5	
Iron, Total Recoverable	**0.10**	mg/L	0.050	0.0044	1	06/16/25 09:05	06/25/25 14:58	7439-89-6	
Manganese, Total Recoverable	**0.28**	mg/L	0.0010	0.00052	1	06/16/25 09:05	06/25/25 14:58	7439-96-5	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Aluminum, Dissolved	**<0.0082**	mg/L	0.050	0.0082	1	06/16/25 09:05	06/25/25 16:10	7429-90-5	
Arsenic, Dissolved	**0.00086J**	mg/L	0.0010	0.00013	1	06/16/25 09:05	06/25/25 16:10	7440-38-2	
Cobalt, Dissolved	**0.00074J**	mg/L	0.0010	0.00010	1	06/16/25 09:05	06/25/25 16:10	7440-48-4	
Iron, Dissolved	**0.0083J**	mg/L	0.050	0.0044	1	06/16/25 09:05	06/25/25 16:10	7439-89-6	
Manganese, Dissolved	**0.23**	mg/L	0.0010	0.00052	1	06/16/25 09:05	06/25/25 16:10	7439-96-5	
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Kansas City								
Alkalinity,Bicarbonate (CaCO3)	**418**	mg/L	20.0	10.5	1		06/16/25 19:37		
Alkalinity,Carbonate (CaCO3)	**<10.5**	mg/L	20.0	10.5	1		06/16/25 19:37		
Alkalinity, Total as CaCO3	**418**	mg/L	20.0	10.5	1		06/16/25 19:37		
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City								
Total Dissolved Solids	**1020**	mg/L	20.0	20.0	1		06/17/25 17:57		
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		06/19/25 15:15	15438-31-0	H6
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		06/17/25 13:46	18496-25-8	

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ANALYTICAL RESULTS

Project: TEC BASA Additional-Revised Report
Pace Project No.: 60477285

Sample: MW-7-061325 **Lab ID: 60477285001** Collected: 06/13/25 10:05 Received: 06/13/25 15:51 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City								
Chloride	**248**	mg/L	20.0	10.5	20		07/04/25 00:35	16887-00-6	
Fluoride	**<0.12**	mg/L	0.20	0.12	1		07/04/25 00:24	16984-48-8	
Sulfate	**336**	mg/L	20.0	11.0	20		07/04/25 00:35	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis								
Nitrogen, NO2 plus NO3	**0.17**	mg/L	0.10	0.013	1		08/12/25 08:53		H1
365.1 Total Phosphorus	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis								
Phosphorus	**0.42**	mg/L	0.050	0.044	1	07/01/25 10:00	07/02/25 16:33	7723-14-0	
5310C TOC	Analytical Method: SM 5310C Pace Analytical Services - Kansas City								
Total Organic Carbon	**1.2**	mg/L	1.0	0.54	1		06/30/25 05:33	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C Pace Analytical Services - Kansas City								
Dissolved Organic Carbon	**<0.54**	mg/L	1.0	0.54	1		07/01/25 21:08		

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ANALYTICAL RESULTS

Project: TEC BASA Additional-Revised Report
Pace Project No.: 60477285

Sample: MW-8-061325 **Lab ID: 60477285002** Collected: 06/13/25 08:55 Received: 06/13/25 15:51 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, Total Recoverable	**0.055**	mg/L	0.0050	0.00075	1	06/16/25 09:05	07/02/25 12:53	7440-39-3	
Calcium, Total Recoverable	**183**	mg/L	0.20	0.045	1	06/16/25 09:05	07/02/25 12:53	7440-70-2	M1,P6
Magnesium, Total Recoverable	**13.6**	mg/L	0.050	0.021	1	06/16/25 09:05	07/02/25 12:53	7439-95-4	
Potassium, Total Recoverable	**11.7**	mg/L	0.50	0.045	1	06/16/25 09:05	07/02/25 12:53	7440-09-7	
Sodium, Total Recoverable	**170**	mg/L	0.50	0.032	1	06/16/25 09:05	07/02/25 12:53	7440-23-5	M1,P6
Total Hardness by 2340B, Total Recoverable	**513**	mg/L	0.50	0.20	1	06/16/25 09:05	07/02/25 12:53		
200.7 Metals, Dissolved	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City								
Magnesium, Dissolved	**12.9**	mg/L	0.050	0.021	1	06/16/25 09:05	07/01/25 17:07	7439-95-4	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Aluminum, Total Recoverable	**0.71**	mg/L	0.050	0.0082	1	06/16/25 09:05	06/25/25 15:08	7429-90-5	
Iron, Total Recoverable	**1.1**	mg/L	0.050	0.0044	1	06/16/25 09:05	06/25/25 15:08	7439-89-6	
Manganese, Total Recoverable	**0.60**	mg/L	0.0010	0.00052	1	06/16/25 09:05	06/25/25 15:08	7439-96-5	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Aluminum, Dissolved	**<0.0082**	mg/L	0.050	0.0082	1	06/16/25 09:05	06/25/25 16:00	7429-90-5	
Arsenic, Dissolved	**0.00077J**	mg/L	0.0010	0.00013	1	06/16/25 09:05	06/25/25 16:00	7440-38-2	
Cobalt, Dissolved	**0.00040J**	mg/L	0.0010	0.00010	1	06/16/25 09:05	06/25/25 16:00	7440-48-4	
Iron, Dissolved	**0.0067J**	mg/L	0.050	0.0044	1	06/16/25 09:05	06/25/25 16:00	7439-89-6	
Manganese, Dissolved	**0.57**	mg/L	0.0010	0.00052	1	06/16/25 09:05	06/25/25 16:00	7439-96-5	
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Kansas City								
Alkalinity,Bicarbonate (CaCO3)	**63.5**	mg/L	20.0	10.5	1		06/16/25 19:54		
Alkalinity,Carbonate (CaCO3)	**<10.5**	mg/L	20.0	10.5	1		06/16/25 19:54		
Alkalinity, Total as CaCO3	**63.5**	mg/L	20.0	10.5	1		06/16/25 19:54		
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City								
Total Dissolved Solids	**1280**	mg/L	20.0	20.0	1		06/17/25 17:58		
Iron, Ferrous	Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City								
Iron, Ferrous	**0.32**	mg/L	0.20	0.041	1		06/19/25 15:15	15438-31-0	H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D Pace Analytical Services - Kansas City								
Sulfide, Total	**0.041J**	mg/L	0.050	0.016	1		06/17/25 13:46	18496-25-8	

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ANALYTICAL RESULTS

Project: TEC BASA Additional-Revised Report
Pace Project No.: 60477285

Sample: MW-8-061325 **Lab ID: 60477285002** Collected: 06/13/25 08:55 Received: 06/13/25 15:51 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City								
Nitrate as N	**0.54**	mg/L	0.10	0.055	1		06/14/25 13:26	14797-55-8	M1
Nitrite as N	**<0.035**	mg/L	0.10	0.035	1		06/14/25 13:26	14797-65-0	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City								
Chloride	**244**	mg/L	50.0	26.4	50		07/04/25 01:19	16887-00-6	
Fluoride	**<0.12**	mg/L	0.20	0.12	1		07/04/25 01:08	16984-48-8	
Sulfate	**696**	mg/L	50.0	27.5	50		07/04/25 01:19	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis								
Nitrogen, NO2 plus NO3	**0.51**	mg/L	0.10	0.013	1		08/12/25 08:52		H1
365.1 Total Phosphorus	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis								
Phosphorus	**0.28**	mg/L	0.050	0.044	1	07/01/25 10:00	07/02/25 16:32	7723-14-0	
5310C TOC	Analytical Method: SM 5310C Pace Analytical Services - Kansas City								
Total Organic Carbon	**1.1**	mg/L	1.0	0.54	1		06/30/25 05:47	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C Pace Analytical Services - Kansas City								
Dissolved Organic Carbon	**2.4**	mg/L	1.0	0.54	1		07/01/25 20:53		

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ANALYTICAL RESULTS

Project: TEC BASA Additional-Revised Report
Pace Project No.: 60477285

Sample: MW-10-061225 **Lab ID: 60477285003** Collected: 06/12/25 11:00 Received: 06/13/25 15:51 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, Total Recoverable	**0.20**	mg/L	0.0050	0.00075	1	06/16/25 09:05	07/02/25 12:59	7440-39-3	
Calcium, Total Recoverable	**157**	mg/L	0.20	0.045	1	06/16/25 09:05	07/02/25 12:59	7440-70-2	
Magnesium, Total Recoverable	**30.5**	mg/L	0.050	0.021	1	06/16/25 09:05	07/02/25 12:59	7439-95-4	
Potassium, Total Recoverable	**3.3**	mg/L	0.50	0.045	1	06/16/25 09:05	07/02/25 12:59	7440-09-7	
Sodium, Total Recoverable	**259**	mg/L	0.50	0.032	1	06/16/25 09:05	07/02/25 12:59	7440-23-5	
Total Hardness by 2340B, Total Recoverable	**518**	mg/L	0.50	0.20	1	06/16/25 09:05	07/02/25 12:59		
200.7 Metals, Dissolved	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City								
Magnesium, Dissolved	**30.1**	mg/L	0.050	0.021	1	06/16/25 09:05	07/01/25 17:09	7439-95-4	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Aluminum, Total Recoverable	**0.10**	mg/L	0.050	0.0082	1	06/16/25 09:05	06/25/25 15:10	7429-90-5	
Iron, Total Recoverable	**7.6**	mg/L	0.050	0.0044	1	06/16/25 09:05	06/25/25 15:10	7439-89-6	
Manganese, Total Recoverable	**5.0**	mg/L	0.0010	0.00052	1	06/16/25 09:05	06/25/25 15:10	7439-96-5	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Aluminum, Dissolved	**<0.0082**	mg/L	0.050	0.0082	1	06/16/25 09:05	06/25/25 16:13	7429-90-5	
Arsenic, Dissolved	**0.0086**	mg/L	0.0010	0.00013	1	06/16/25 09:05	06/25/25 16:13	7440-38-2	
Cobalt, Dissolved	**0.0064**	mg/L	0.0010	0.00010	1	06/16/25 09:05	06/25/25 16:13	7440-48-4	
Iron, Dissolved	**2.6**	mg/L	0.050	0.0044	1	06/16/25 09:05	06/25/25 16:13	7439-89-6	
Manganese, Dissolved	**4.6**	mg/L	0.0010	0.00052	1	06/16/25 09:05	06/25/25 16:13	7439-96-5	
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Kansas City								
Alkalinity,Bicarbonate (CaCO3)	**532**	mg/L	20.0	10.5	1		06/16/25 17:55		
Alkalinity,Carbonate (CaCO3)	**<10.5**	mg/L	20.0	10.5	1		06/16/25 17:55		
Alkalinity, Total as CaCO3	**532**	mg/L	20.0	10.5	1		06/16/25 17:55		
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City								
Total Dissolved Solids	**1240**	mg/L	40.0	40.0	1		06/17/25 17:56		
Iron, Ferrous	Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City								
Iron, Ferrous	**2.6**	mg/L	0.20	0.041	1		06/19/25 15:15	15438-31-0	H6
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		06/17/25 13:46	18496-25-8	

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ANALYTICAL RESULTS

Project: TEC BASA Additional-Revised Report
Pace Project No.: 60477285

Sample: MW-10-061225 **Lab ID: 60477285003** Collected: 06/12/25 11:00 Received: 06/13/25 15:51 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City								
Chloride	**281**	mg/L	50.0	26.4	50		07/08/25 14:09	16887-00-6	M1
Fluoride	**0.19J**	mg/L	0.20	0.12	1		07/08/25 13:13	16984-48-8	
Sulfate	**190**	mg/L	50.0	27.5	50		07/08/25 14:09	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis								
Nitrogen, NO2 plus NO3	**0.066J**	mg/L	0.10	0.013	1		08/12/25 08:41		H1
365.1 Total Phosphorus	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis								
Phosphorus	**0.30**	mg/L	0.050	0.044	1	07/01/25 10:00	07/02/25 16:30	7723-14-0	
5310C TOC	Analytical Method: SM 5310C Pace Analytical Services - Kansas City								
Total Organic Carbon	**3.3**	mg/L	1.0	0.54	1		06/30/25 04:17	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C Pace Analytical Services - Kansas City								
Dissolved Organic Carbon	**6.9**	mg/L	5.0	2.7	5		07/01/25 20:38		D3

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ANALYTICAL RESULTS

Project: TEC BASA Additional-Revised Report
Pace Project No.: 60477285

Sample: MW-11A-061225 **Lab ID: 60477285004** Collected: 06/12/25 09:35 Received: 06/13/25 15:51 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, Total Recoverable	**0.051**	mg/L	0.0050	0.00075	1	06/16/25 09:05	07/02/25 13:00	7440-39-3	
Calcium, Total Recoverable	**223**	mg/L	0.20	0.045	1	06/16/25 09:05	07/02/25 13:00	7440-70-2	
Magnesium, Total Recoverable	**41.0**	mg/L	0.050	0.021	1	06/16/25 09:05	07/02/25 13:00	7439-95-4	
Potassium, Total Recoverable	**5.3**	mg/L	0.50	0.045	1	06/16/25 09:05	07/02/25 13:00	7440-09-7	
Sodium, Total Recoverable	**369**	mg/L	0.50	0.032	1	06/16/25 09:05	07/02/25 13:00	7440-23-5	
Total Hardness by 2340B, Total Recoverable	**726**	mg/L	0.50	0.20	1	06/16/25 09:05	07/02/25 13:00		
200.7 Metals, Dissolved	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City								
Magnesium, Dissolved	**42.6**	mg/L	0.050	0.021	1	06/16/25 09:05	07/01/25 17:11	7439-95-4	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Aluminum, Total Recoverable	**0.77**	mg/L	0.050	0.0082	1	06/16/25 09:05	06/25/25 15:13	7429-90-5	
Iron, Total Recoverable	**1.1**	mg/L	0.050	0.0044	1	06/16/25 09:05	06/25/25 15:13	7439-89-6	
Manganese, Total Recoverable	**1.1**	mg/L	0.0010	0.00052	1	06/16/25 09:05	06/25/25 15:13	7439-96-5	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Aluminum, Dissolved	**<0.0082**	mg/L	0.050	0.0082	1	06/16/25 09:05	06/25/25 16:15	7429-90-5	
Arsenic, Dissolved	**0.00058J**	mg/L	0.0010	0.00013	1	06/16/25 09:05	06/25/25 16:15	7440-38-2	
Cobalt, Dissolved	**0.0077**	mg/L	0.0010	0.00010	1	06/16/25 09:05	06/25/25 16:15	7440-48-4	
Iron, Dissolved	**0.068**	mg/L	0.050	0.0044	1	06/16/25 09:05	06/25/25 16:15	7439-89-6	
Manganese, Dissolved	**0.90**	mg/L	0.0010	0.00052	1	06/16/25 09:05	06/25/25 16:15	7439-96-5	
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Kansas City								
Alkalinity,Bicarbonate (CaCO3)	**489**	mg/L	20.0	10.5	1		06/16/25 18:02		
Alkalinity,Carbonate (CaCO3)	**<10.5**	mg/L	20.0	10.5	1		06/16/25 18:02		
Alkalinity, Total as CaCO3	**489**	mg/L	20.0	10.5	1		06/16/25 18:02		
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City								
Total Dissolved Solids	**2020**	mg/L	66.7	66.7	1		06/17/25 17:56		
Iron, Ferrous	Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City								
Iron, Ferrous	**1.1**	mg/L	0.20	0.041	1		06/19/25 15:15	15438-31-0	H6
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		06/17/25 13:46	18496-25-8	

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ANALYTICAL RESULTS

Project: TEC BASA Additional-Revised Report
Pace Project No.: 60477285

Sample: MW-11A-061225 **Lab ID: 60477285004** Collected: 06/12/25 09:35 Received: 06/13/25 15:51 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City								
Chloride	**482**	mg/L	50.0	26.4	50		07/04/25 02:03	16887-00-6	
Fluoride	**<0.12**	mg/L	0.20	0.12	1		07/04/25 01:52	16984-48-8	
Sulfate	**698**	mg/L	50.0	27.5	50		07/04/25 02:03	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis								
Nitrogen, NO2 plus NO3	**3.6**	mg/L	0.20	0.026	2		08/12/25 08:36		H1
365.1 Total Phosphorus	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis								
Phosphorus	**0.076**	mg/L	0.050	0.044	1	07/01/25 10:00	07/02/25 16:29	7723-14-0	
5310C TOC	Analytical Method: SM 5310C Pace Analytical Services - Kansas City								
Total Organic Carbon	**2.4**	mg/L	1.0	0.54	1		06/30/25 04:02	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C Pace Analytical Services - Kansas City								
Dissolved Organic Carbon	**4.0**	mg/L	2.0	1.1	2		06/23/25 16:19		

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Lenexa, KS 66219
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ANALYTICAL RESULTS

Project: TEC BASA Additional-Revised Report
Pace Project No.: 60477285

Sample: MW-12-061225 **Lab ID: 60477285005** Collected: 06/12/25 12:45 Received: 06/13/25 15:51 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, Total Recoverable	**0.087**	mg/L	0.0050	0.00075	1	06/16/25 09:05	07/02/25 13:02	7440-39-3	
Calcium, Total Recoverable	**220**	mg/L	0.20	0.045	1	06/16/25 09:05	07/02/25 13:02	7440-70-2	
Magnesium, Total Recoverable	**39.5**	mg/L	0.050	0.021	1	06/16/25 09:05	07/02/25 13:02	7439-95-4	
Potassium, Total Recoverable	**5.0**	mg/L	0.50	0.045	1	06/16/25 09:05	07/02/25 13:02	7440-09-7	
Sodium, Total Recoverable	**250**	mg/L	0.50	0.032	1	06/16/25 09:05	07/02/25 13:02	7440-23-5	
Total Hardness by 2340B, Total Recoverable	**712**	mg/L	0.50	0.20	1	06/16/25 09:05	07/02/25 13:02		
200.7 Metals, Dissolved	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City								
Magnesium, Dissolved	**38.8**	mg/L	0.050	0.021	1	06/16/25 09:05	07/01/25 17:13	7439-95-4	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Aluminum, Total Recoverable	**0.19**	mg/L	0.050	0.0082	1	06/16/25 09:05	06/25/25 15:15	7429-90-5	
Iron, Total Recoverable	**2.5**	mg/L	0.050	0.0044	1	06/16/25 09:05	06/25/25 15:15	7439-89-6	
Manganese, Total Recoverable	**1.3**	mg/L	0.0010	0.00052	1	06/16/25 09:05	06/25/25 15:15	7439-96-5	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Aluminum, Dissolved	**<0.0082**	mg/L	0.050	0.0082	1	06/16/25 09:05	06/25/25 16:18	7429-90-5	
Arsenic, Dissolved	**0.0024**	mg/L	0.0010	0.00013	1	06/16/25 09:05	06/25/25 16:18	7440-38-2	
Cobalt, Dissolved	**0.031**	mg/L	0.0010	0.00010	1	06/16/25 09:05	06/25/25 16:18	7440-48-4	
Iron, Dissolved	**1.4**	mg/L	0.050	0.0044	1	06/16/25 09:05	06/25/25 16:18	7439-89-6	
Manganese, Dissolved	**1.2**	mg/L	0.0010	0.00052	1	06/16/25 09:05	06/25/25 16:18	7439-96-5	
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Kansas City								
Alkalinity,Bicarbonate (CaCO3)	**468**	mg/L	20.0	10.5	1		06/16/25 18:09		
Alkalinity,Carbonate (CaCO3)	**<10.5**	mg/L	20.0	10.5	1		06/16/25 18:09		
Alkalinity, Total as CaCO3	**468**	mg/L	20.0	10.5	1		06/16/25 18:09		
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City								
Total Dissolved Solids	**1480**	mg/L	66.7	66.7	1		06/17/25 17:57		
Iron, Ferrous	Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City								
Iron, Ferrous	**3.5**	mg/L	0.20	0.041	1		06/19/25 15:15	15438-31-0	H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D Pace Analytical Services - Kansas City								
Sulfide, Total	**0.029J**	mg/L	0.050	0.016	1		06/17/25 13:46	18496-25-8	

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ANALYTICAL RESULTS

Project: TEC BASA Additional-Revised Report
Pace Project No.: 60477285

Sample: MW-12-061225 **Lab ID: 60477285005** Collected: 06/12/25 12:45 Received: 06/13/25 15:51 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City								
Chloride	**313**	mg/L	50.0	26.4	50		07/08/25 14:53	16887-00-6	
Fluoride	**<0.12**	mg/L	0.20	0.12	1		07/08/25 14:42	16984-48-8	
Sulfate	**307**	mg/L	50.0	27.5	50		07/08/25 14:53	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis								
Nitrogen, NO2 plus NO3	**0.34**	mg/L	0.10	0.013	1		08/12/25 08:43		H1
365.1 Total Phosphorus	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis								
Phosphorus	**0.18**	mg/L	0.050	0.044	1	07/01/25 10:00	07/02/25 16:30	7723-14-0	
5310C TOC	Analytical Method: SM 5310C Pace Analytical Services - Kansas City								
Total Organic Carbon	**9.0**	mg/L	5.0	2.7	5		06/30/25 04:32	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C Pace Analytical Services - Kansas City								
Dissolved Organic Carbon	**6.6**	mg/L	2.0	1.1	2		07/01/25 20:23		D3

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ANALYTICAL RESULTS

Project: TEC BASA Additional-Revised Report
Pace Project No.: 60477285

Sample: MW-13-061225 **Lab ID: 60477285006** Collected: 06/12/25 14:20 Received: 06/13/25 15:51 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, Total Recoverable	**0.080**	mg/L	0.0050	0.00075	1	06/16/25 09:05	07/02/25 13:10	7440-39-3	
Calcium, Total Recoverable	**194**	mg/L	0.20	0.045	1	06/16/25 09:05	07/02/25 13:10	7440-70-2	
Magnesium, Total Recoverable	**2.8**	mg/L	0.050	0.021	1	06/16/25 09:05	07/02/25 13:10	7439-95-4	
Potassium, Total Recoverable	**29.8**	mg/L	0.50	0.045	1	06/16/25 09:05	07/02/25 13:10	7440-09-7	
Sodium, Total Recoverable	**191**	mg/L	0.50	0.032	1	06/16/25 09:05	07/02/25 13:10	7440-23-5	
Total Hardness by 2340B, Total Recoverable	**495**	mg/L	0.50	0.20	1	06/16/25 09:05	07/02/25 13:10		
200.7 Metals, Dissolved	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City								
Magnesium, Dissolved	**2.1**	mg/L	0.050	0.021	1	06/16/25 09:05	07/01/25 17:20	7439-95-4	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Aluminum, Total Recoverable	**0.44**	mg/L	0.050	0.0082	1	06/16/25 09:05	06/25/25 15:21	7429-90-5	
Iron, Total Recoverable	**0.88**	mg/L	0.050	0.0044	1	06/16/25 09:05	06/25/25 15:21	7439-89-6	
Manganese, Total Recoverable	**0.067**	mg/L	0.0010	0.00052	1	06/16/25 09:05	06/25/25 15:21	7439-96-5	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Aluminum, Dissolved	**<0.0082**	mg/L	0.050	0.0082	1	06/16/25 09:05	06/25/25 16:23	7429-90-5	
Arsenic, Dissolved	**0.021**	mg/L	0.0010	0.00013	1	06/16/25 09:05	06/25/25 16:23	7440-38-2	
Cobalt, Dissolved	**0.00017J**	mg/L	0.0010	0.00010	1	06/16/25 09:05	06/25/25 16:23	7440-48-4	
Iron, Dissolved	**0.017J**	mg/L	0.050	0.0044	1	06/16/25 09:05	06/25/25 16:23	7439-89-6	
Manganese, Dissolved	**0.035**	mg/L	0.0010	0.00052	1	06/16/25 09:05	06/25/25 16:23	7439-96-5	
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Kansas City								
Alkalinity,Bicarbonate (CaCO3)	**32.5**	mg/L	20.0	10.5	1		06/16/25 18:13		
Alkalinity,Carbonate (CaCO3)	**<10.5**	mg/L	20.0	10.5	1		06/16/25 18:13		
Alkalinity, Total as CaCO3	**32.5**	mg/L	20.0	10.5	1		06/16/25 18:13		
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City								
Total Dissolved Solids	**1380**	mg/L	40.0	40.0	1		06/17/25 17:57		
Iron, Ferrous	Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City								
Iron, Ferrous	**1.2**	mg/L	0.20	0.041	1		06/19/25 15:15	15438-31-0	H6
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		06/17/25 13:46	18496-25-8	

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ANALYTICAL RESULTS

Project: TEC BASA Additional-Revised Report
Pace Project No.: 60477285

Sample: MW-13-061225 **Lab ID: 60477285006** Collected: 06/12/25 14:20 Received: 06/13/25 15:51 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City								
Chloride	**339**	mg/L	20.0	10.5	20		07/04/25 02:49	16887-00-6	
Fluoride	**<0.12**	mg/L	0.20	0.12	1		07/04/25 02:37	16984-48-8	
Sulfate	**1110**	mg/L	100	55.0	100		07/04/25 03:24	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis								
Nitrogen, NO2 plus NO3	**0.060J**	mg/L	0.10	0.013	1		08/12/25 08:45		H1
365.1 Total Phosphorus	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis								
Phosphorus	**0.15**	mg/L	0.050	0.044	1	07/01/25 10:00	07/02/25 16:31	7723-14-0	
5310C TOC	Analytical Method: SM 5310C Pace Analytical Services - Kansas City								
Total Organic Carbon	**2.8**	mg/L	1.0	0.54	1		06/30/25 03:33	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C Pace Analytical Services - Kansas City								
Dissolved Organic Carbon	**3.1**	mg/L	1.0	0.54	1		07/01/25 19:22		

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ANALYTICAL RESULTS

Project: TEC BASA Additional-Revised Report
Pace Project No.: 60477285

Sample: MW-14061225 **Lab ID: 60477285007** Collected: 06/12/25 15:50 Received: 06/13/25 15:51 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, Total Recoverable	**0.029**	mg/L	0.0050	0.00075	1	06/16/25 09:05	07/02/25 13:11	7440-39-3	
Calcium, Total Recoverable	**201**	mg/L	0.20	0.045	1	06/16/25 09:05	07/02/25 13:11	7440-70-2	
Magnesium, Total Recoverable	**21.8**	mg/L	0.050	0.021	1	06/16/25 09:05	07/02/25 13:11	7439-95-4	
Potassium, Total Recoverable	**10.7**	mg/L	0.50	0.045	1	06/16/25 09:05	07/02/25 13:11	7440-09-7	
Sodium, Total Recoverable	**265**	mg/L	0.50	0.032	1	06/16/25 09:05	07/02/25 13:11	7440-23-5	
Total Hardness by 2340B, Total Recoverable	**593**	mg/L	0.50	0.20	1	06/16/25 09:05	07/02/25 13:11		
200.7 Metals, Dissolved	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City								
Magnesium, Dissolved	**22.6**	mg/L	0.050	0.021	1	06/16/25 09:05	07/01/25 17:22	7439-95-4	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Aluminum, Total Recoverable	**0.19**	mg/L	0.050	0.0082	1	06/16/25 09:05	06/25/25 15:23	7429-90-5	
Iron, Total Recoverable	**0.45**	mg/L	0.050	0.0044	1	06/16/25 09:05	06/25/25 15:23	7439-89-6	
Manganese, Total Recoverable	**0.079**	mg/L	0.0010	0.00052	1	06/16/25 09:05	06/25/25 15:23	7439-96-5	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Aluminum, Dissolved	**<0.0082**	mg/L	0.050	0.0082	1	06/16/25 09:05	06/25/25 16:26	7429-90-5	
Arsenic, Dissolved	**0.0013**	mg/L	0.0010	0.00013	1	06/16/25 09:05	06/25/25 16:26	7440-38-2	
Cobalt, Dissolved	**0.00032J**	mg/L	0.0010	0.00010	1	06/16/25 09:05	06/25/25 16:26	7440-48-4	
Iron, Dissolved	**0.0054J**	mg/L	0.050	0.0044	1	06/16/25 09:05	06/25/25 16:26	7439-89-6	
Manganese, Dissolved	**0.052**	mg/L	0.0010	0.00052	1	06/16/25 09:05	06/25/25 16:26	7439-96-5	
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Kansas City								
Alkalinity,Bicarbonate (CaCO3)	**241**	mg/L	20.0	10.5	1		06/16/25 18:19		
Alkalinity,Carbonate (CaCO3)	**<10.5**	mg/L	20.0	10.5	1		06/16/25 18:19		
Alkalinity, Total as CaCO3	**241**	mg/L	20.0	10.5	1		06/16/25 18:19		
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City								
Total Dissolved Solids	**1690**	mg/L	66.7	66.7	1		06/17/25 17:57		
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		06/19/25 15:15	15438-31-0	H6
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		06/17/25 13:46	18496-25-8	

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ANALYTICAL RESULTS

Project: TEC BASA Additional-Revised Report
Pace Project No.: 60477285

Sample: MW-14061225 **Lab ID: 60477285007** Collected: 06/12/25 15:50 Received: 06/13/25 15:51 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City								
Chloride	**304**	mg/L	50.0	26.4	50		07/04/25 04:00	16887-00-6	M1
Fluoride	**<0.12**	mg/L	0.20	0.12	1		07/04/25 03:36	16984-48-8	
Sulfate	**806**	mg/L	50.0	27.5	50		07/04/25 04:00	14808-79-8	M1
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis								
Nitrogen, NO2 plus NO3	**4.8**	mg/L	0.20	0.026	2		08/12/25 08:50		H1
365.1 Total Phosphorus	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis								
Phosphorus	**0.12**	mg/L	0.050	0.044	1	07/01/25 10:00	07/02/25 16:31	7723-14-0	
5310C TOC	Analytical Method: SM 5310C Pace Analytical Services - Kansas City								
Total Organic Carbon	**1.3**	mg/L	1.0	0.54	1		06/30/25 03:18	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C Pace Analytical Services - Kansas City								
Dissolved Organic Carbon	**1.4**	mg/L	1.0	0.54	1		07/01/25 19:07		

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ANALYTICAL RESULTS

Project: TEC BASA Additional-Revised Report
Pace Project No.: 60477285

Sample: TEC-BASA-DUP-061325 **Lab ID: 60477285008** Collected: 06/13/25 10:05 Received: 06/13/25 15:51 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, Total Recoverable	**0.063**	mg/L	0.0050	0.00075	1	06/16/25 09:05	07/02/25 13:13	7440-39-3	
Calcium, Total Recoverable	**128**	mg/L	0.20	0.045	1	06/16/25 09:05	07/02/25 13:13	7440-70-2	
Magnesium, Total Recoverable	**22.0**	mg/L	0.050	0.021	1	06/16/25 09:05	07/02/25 13:13	7439-95-4	
Potassium, Total Recoverable	**3.0**	mg/L	0.50	0.045	1	06/16/25 09:05	07/02/25 13:13	7440-09-7	
Sodium, Total Recoverable	**177**	mg/L	0.50	0.032	1	06/16/25 09:05	07/02/25 13:13	7440-23-5	
Total Hardness by 2340B, Total Recoverable	**411**	mg/L	0.50	0.20	1	06/16/25 09:05	07/02/25 13:13		
200.7 Metals, Dissolved	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City								
Magnesium, Dissolved	**23.9**	mg/L	0.050	0.021	1	06/16/25 09:05	07/01/25 17:24	7439-95-4	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Aluminum, Total Recoverable	**0.063**	mg/L	0.050	0.0082	1	06/16/25 09:05	06/25/25 15:26	7429-90-5	
Iron, Total Recoverable	**0.090**	mg/L	0.050	0.0044	1	06/16/25 09:05	06/25/25 15:26	7439-89-6	
Manganese, Total Recoverable	**0.27**	mg/L	0.0010	0.00052	1	06/16/25 09:05	06/25/25 15:26	7439-96-5	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Aluminum, Dissolved	**<0.0082**	mg/L	0.050	0.0082	1	06/16/25 09:05	06/25/25 16:28	7429-90-5	
Arsenic, Dissolved	**0.00084J**	mg/L	0.0010	0.00013	1	06/16/25 09:05	06/25/25 16:28	7440-38-2	
Cobalt, Dissolved	**0.00072J**	mg/L	0.0010	0.00010	1	06/16/25 09:05	06/25/25 16:28	7440-48-4	
Iron, Dissolved	**0.0096J**	mg/L	0.050	0.0044	1	06/16/25 09:05	06/25/25 16:28	7439-89-6	
Manganese, Dissolved	**0.23**	mg/L	0.0010	0.00052	1	06/16/25 09:05	06/25/25 16:28	7439-96-5	
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Kansas City								
Alkalinity,Bicarbonate (CaCO3)	**436**	mg/L	20.0	10.5	1		06/16/25 20:00		
Alkalinity,Carbonate (CaCO3)	**<10.5**	mg/L	20.0	10.5	1		06/16/25 20:00		
Alkalinity, Total as CaCO3	**436**	mg/L	20.0	10.5	1		06/16/25 20:00		
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City								
Total Dissolved Solids	**1000**	mg/L	20.0	20.0	1		06/17/25 17:58		
Iron, Ferrous	Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City								
Iron, Ferrous	**0.044J**	mg/L	0.20	0.041	1		06/19/25 15:15	15438-31-0	H6
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		06/17/25 13:46	18496-25-8	

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ANALYTICAL RESULTS

Project: TEC BASA Additional-Revised Report
Pace Project No.: 60477285

Sample: TEC-BASA-DUP-061325 **Lab ID: 60477285008** Collected: 06/13/25 10:05 Received: 06/13/25 15:51 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City								
Chloride	**246**	mg/L	20.0	10.5	20		07/04/25 04:36	16887-00-6	
Fluoride	**<0.12**	mg/L	0.20	0.12	1		07/04/25 04:24	16984-48-8	
Sulfate	**326**	mg/L	20.0	11.0	20		07/04/25 04:36	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis								
Nitrogen, NO2 plus NO3	**0.040J**	mg/L	0.10	0.013	1		08/12/25 08:55		H1
365.1 Total Phosphorus	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis								
Phosphorus	**0.37**	mg/L	0.050	0.044	1	07/01/25 10:00	07/02/25 16:33	7723-14-0	
5310C TOC	Analytical Method: SM 5310C Pace Analytical Services - Kansas City								
Total Organic Carbon	**1.2**	mg/L	1.0	0.54	1		06/30/25 05:18	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C Pace Analytical Services - Kansas City								
Dissolved Organic Carbon	**2.3**	mg/L	1.0	0.54	1		07/01/25 21:17		

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QUALITY CONTROL DATA

Project: TEC BASA Additional-Revised Report
Pace Project No.: 60477285

QC Batch: 938598
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: 60477285001, 60477285002, 60477285003, 60477285004, 60477285005, 60477285006, 60477285007, 60477285008

METHOD BLANK: 3721419 Matrix: Water
Associated Lab Samples: 60477285001, 60477285002, 60477285003, 60477285004, 60477285005, 60477285006, 60477285007, 60477285008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Barium	mg/L	<0.00075	0.0050	0.00075	07/02/25 12:48	
Calcium	mg/L	<0.045	0.20	0.045	07/02/25 12:48	
Hardness, Total(SM 2340B)	mg/L	<0.20	0.50	0.20	07/02/25 12:48	
Magnesium	mg/L	<0.021	0.050	0.021	07/02/25 12:48	
Potassium	mg/L	<0.045	0.50	0.045	07/02/25 12:48	
Sodium	mg/L	<0.032	0.50	0.032	07/02/25 12:48	

LABORATORY CONTROL SAMPLE: 3721420

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	mg/L	1	0.96	96	85-115	
Calcium	mg/L	10	9.8	98	85-115	
Hardness, Total(SM 2340B)	mg/L	66.2	63.0	95	85-115	
Magnesium	mg/L	10	9.4	94	85-115	
Potassium	mg/L	10	9.5	95	85-115	
Sodium	mg/L	10	9.7	97	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3721421 3721422

Parameter	Units	60477285002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	mg/L	0.055	1	1	1.1	1.0	102	97	70-130	5	20	
Calcium	mg/L	183	10	10	198	191	154	82	70-130	4	20	M1
Hardness, Total(SM 2340B)	mg/L	513	66.2	66.2	594	571	123	88	70-130	4	20	
Magnesium	mg/L	13.6	10	10	24.0	22.8	104	92	70-130	5	20	
Potassium	mg/L	11.7	10	10	22.3	21.6	107	100	70-130	3	20	
Sodium	mg/L	170	10	10	185	178	152	87	70-130	4	20	M1

MATRIX SPIKE SAMPLE: 3721423

Parameter	Units	60477292002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Barium	mg/L	72.2 ug/L	1	0.98	91	70-130	
Calcium	mg/L	210	10	204	-63	70-130	M1
Hardness, Total(SM 2340B)	mg/L	643	66.2	655	18	70-130	

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QUALITY CONTROL DATA

Project: TEC BASA Additional-Revised Report
Pace Project No.: 60477285

MATRIX SPIKE SAMPLE: 3721423

Parameter	Units	60477292002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Magnesium	mg/L	28.6	10	35.3	67	70-130	M1
Potassium	mg/L	2.1	10	11.4	93	70-130	
Sodium	mg/L	171	10	168	-39	70-130	M1

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QUALITY CONTROL DATA

Project: TEC BASA Additional-Revised Report
Pace Project No.: 60477285

QC Batch: 938600
QC Batch Method: EPA 200.7
Analysis Method: EPA 200.7
Analysis Description: 200.7 Metals, Dissolved
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60477285001, 60477285002, 60477285003, 60477285004, 60477285005, 60477285006, 60477285007, 60477285008

METHOD BLANK: 3721428 Matrix: Water
Associated Lab Samples: 60477285001, 60477285002, 60477285003, 60477285004, 60477285005, 60477285006, 60477285007, 60477285008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Magnesium, Dissolved	mg/L	<0.021	0.050	0.021	07/01/25 16:58	

LABORATORY CONTROL SAMPLE: 3721429

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Magnesium, Dissolved	mg/L	10	9.2	92	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3721430 3721431

Parameter	Units	60477285001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Magnesium, Dissolved	mg/L	22.5	10	10	31.7	32.8	92	104	70-130	4	20	

MATRIX SPIKE SAMPLE: 3721432

Parameter	Units	60477292002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Magnesium, Dissolved	mg/L	30.0	10	37.8	78	70-130	

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QUALITY CONTROL DATA

Project: TEC BASA Additional-Revised Report
Pace Project No.: 60477285

QC Batch: 938597
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: 60477285001, 60477285002, 60477285003, 60477285004, 60477285005, 60477285006, 60477285007, 60477285008

METHOD BLANK: 3721414 Matrix: Water
Associated Lab Samples: 60477285001, 60477285002, 60477285003, 60477285004, 60477285005, 60477285006, 60477285007, 60477285008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Aluminum	mg/L	<0.0082	0.050	0.0082	06/25/25 14:53	
Iron	mg/L	<0.0044	0.050	0.0044	06/25/25 14:53	
Manganese	mg/L	<0.00052	0.0010	0.00052	06/25/25 14:53	

LABORATORY CONTROL SAMPLE: 3721415

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	mg/L	1	1.1	105	85-115	
Iron	mg/L	1	1.1	112	85-115	
Manganese	mg/L	0.04	0.042	105	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3721416 3721417

Parameter	Units	60477285001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum	mg/L	0.071	1	1	1.1	1.1	105	105	70-130	0	20	
Iron	mg/L	0.10	1	1	1.2	1.2	109	109	70-130	0	20	
Manganese	mg/L	0.28	0.04	0.04	0.32	0.33	115	124	70-130	1	20	

MATRIX SPIKE SAMPLE: 3721418

Parameter	Units	60477292003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum	mg/L	0.57	1	1.6	102	70-130	
Iron	mg/L	1.1	1	2.1	96	70-130	
Manganese	mg/L	1.5	0.04	1.5	-90	70-130	M1

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QUALITY CONTROL DATA

Project: TEC BASA Additional-Revised Report
Pace Project No.: 60477285

QC Batch: 938602
QC Batch Method: EPA 200.8
Analysis Method: EPA 200.8
Analysis Description: 200.8 MET Dissolved
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60477285001, 60477285002, 60477285003, 60477285004, 60477285005, 60477285006, 60477285007, 60477285008

METHOD BLANK: 3721436 Matrix: Water
Associated Lab Samples: 60477285001, 60477285002, 60477285003, 60477285004, 60477285005, 60477285006, 60477285007, 60477285008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Aluminum, Dissolved	mg/L	<0.0082	0.050	0.0082	06/25/25 15:55	
Arsenic, Dissolved	mg/L	<0.00013	0.0010	0.00013	06/25/25 15:55	
Cobalt, Dissolved	mg/L	<0.00010	0.0010	0.00010	06/25/25 15:55	
Iron, Dissolved	mg/L	<0.0044	0.050	0.0044	06/25/25 15:55	
Manganese, Dissolved	mg/L	<0.00052	0.0010	0.00052	06/25/25 15:55	

LABORATORY CONTROL SAMPLE: 3721437

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	mg/L	1	0.97	97	85-115	
Arsenic, Dissolved	mg/L	0.04	0.040	100	85-115	
Cobalt, Dissolved	mg/L	0.04	0.040	99	85-115	
Iron, Dissolved	mg/L	1	1.1	106	85-115	
Manganese, Dissolved	mg/L	0.04	0.040	99	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3721438 3721439

Parameter	Units	60477285002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum, Dissolved	mg/L	<0.0082	1	1	1.0	1.0	101	101	70-130	1	20	
Arsenic, Dissolved	mg/L	0.00077J	0.04	0.04	0.042	0.042	102	103	70-130	1	20	
Cobalt, Dissolved	mg/L	0.00040J	0.04	0.04	0.039	0.040	97	98	70-130	1	20	
Iron, Dissolved	mg/L	0.0067J	1	1	1.3	1.1	128	106	70-130	18	20	
Manganese, Dissolved	mg/L	0.57	0.04	0.04	0.60	0.60	81	95	70-130	1	20	

MATRIX SPIKE SAMPLE: 3721440

Parameter	Units	60477292003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	mg/L	<0.0082	1	1.0	100	70-130	
Arsenic, Dissolved	mg/L	0.00072J	0.04	0.038	94	70-130	
Cobalt, Dissolved	mg/L	0.00023J	0.04	0.037	93	70-130	
Iron, Dissolved	mg/L	<0.0044	1	1.0	101	70-130	
Manganese, Dissolved	mg/L	0.19	0.04	0.23	98	70-130	

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QUALITY CONTROL DATA

Project: TEC BASA Additional-Revised Report
Pace Project No.: 60477285

QC Batch: 938725
QC Batch Method: SM 2320B
Analysis Method: SM 2320B
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60477285003, 60477285004, 60477285005, 60477285006, 60477285007

METHOD BLANK: 3721811 Matrix: Water
Associated Lab Samples: 60477285003, 60477285004, 60477285005, 60477285006, 60477285007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<10.5	20.0	10.5	06/16/25 16:09	
Alkalinity,Bicarbonate (CaCO3)	mg/L	<10.5	20.0	10.5	06/16/25 16:09	
Alkalinity,Carbonate (CaCO3)	mg/L	<10.5	20.0	10.5	06/16/25 16:09	

LABORATORY CONTROL SAMPLE: 3721812

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	500	483	97	90-110	

SAMPLE DUPLICATE: 3721813

Parameter	Units	60477292004 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	497	493	1	10	
Alkalinity,Bicarbonate (CaCO3)	mg/L	497	493	1	10	
Alkalinity,Carbonate (CaCO3)	mg/L	<10.5	<10.5		10	

SAMPLE DUPLICATE: 3721814

Parameter	Units	60477304003 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	31.0	32.0	3	10	
Alkalinity,Bicarbonate (CaCO3)	mg/L	31.0	32.0	3	10	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	<10.5		10	

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QUALITY CONTROL DATA

Project: TEC BASA Additional-Revised Report
Pace Project No.: 60477285

QC Batch: 938726
QC Batch Method: SM 2320B
Analysis Method: SM 2320B
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60477285001, 60477285002, 60477285008

METHOD BLANK: 3721815 Matrix: Water
Associated Lab Samples: 60477285001, 60477285002, 60477285008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<10.5	20.0	10.5	06/16/25 19:01	
Alkalinity,Bicarbonate (CaCO3)	mg/L	<10.5	20.0	10.5	06/16/25 19:01	
Alkalinity,Carbonate (CaCO3)	mg/L	<10.5	20.0	10.5	06/16/25 19:01	

LABORATORY CONTROL SAMPLE: 3721816

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	500	479	96	90-110	

SAMPLE DUPLICATE: 3721817

Parameter	Units	60477295003 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	175	170	3	10	
Alkalinity,Bicarbonate (CaCO3)	mg/L	175	170	3	10	
Alkalinity,Carbonate (CaCO3)	mg/L	<10.5	<10.5		10	

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QUALITY CONTROL DATA

Project: TEC BASA Additional-Revised Report
Pace Project No.: 60477285

QC Batch: 938928
QC Batch Method: SM 2540C
Analysis Method: SM 2540C
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60477285001, 60477285002, 60477285003, 60477285004, 60477285005, 60477285006, 60477285007, 60477285008

METHOD BLANK: 3722577 Matrix: Water
Associated Lab Samples: 60477285001, 60477285002, 60477285003, 60477285004, 60477285005, 60477285006, 60477285007, 60477285008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<5.0	5.0	5.0	06/17/25 17:56	

LABORATORY CONTROL SAMPLE: 3722578

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	1000	996	100	80-120	

SAMPLE DUPLICATE: 3722579

Parameter	Units	60477206001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	432	428	1	10	

SAMPLE DUPLICATE: 3722580

Parameter	Units	60477285002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1280	1280	0	10	

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QUALITY CONTROL DATA

Project: TEC BASA Additional-Revised Report
Pace Project No.: 60477285

QC Batch: 939104
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: 60477285001, 60477285002, 60477285003, 60477285004, 60477285005, 60477285006, 60477285007, 60477285008

METHOD BLANK: 3723201 Matrix: Water
Associated Lab Samples: 60477285001, 60477285002, 60477285003, 60477285004, 60477285005, 60477285006, 60477285007, 60477285008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Iron, Ferrous	mg/L	<0.041	0.20	0.041	06/19/25 15:15	H6

LABORATORY CONTROL SAMPLE: 3723202

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Ferrous	mg/L	2	2.0	101	90-110	H6

SAMPLE DUPLICATE: 3723203

Parameter	Units	60477292005 Result	Dup Result	RPD	Max RPD	Qualifiers
Iron, Ferrous	mg/L	22.8	22.7	0	20	H6

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QUALITY CONTROL DATA

Project: TEC BASA Additional-Revised Report
Pace Project No.: 60477285

QC Batch: 938793
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: 60477285001, 60477285002, 60477285003, 60477285004, 60477285005, 60477285006, 60477285007, 60477285008

METHOD BLANK: 3722004 Matrix: Water
Associated Lab Samples: 60477285001, 60477285002, 60477285003, 60477285004, 60477285005, 60477285006, 60477285007, 60477285008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide, Total	mg/L	<0.016	0.050	0.016	06/17/25 13:46	

LABORATORY CONTROL SAMPLE: 3722005

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	0.5	0.53	107	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3722007 3722008

Parameter	Units	60477292004 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	0.061	0.5	0.5	0.25	0.27	39	42	75-125	6	20	M1

SAMPLE DUPLICATE: 3722006

Parameter	Units	60477292004 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	0.061	0.069	12	20	

SAMPLE DUPLICATE: 3722009

Parameter	Units	60477292005 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	1.3	1.2	1	20	

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QUALITY CONTROL DATA

Project: TEC BASA Additional-Revised Report
Pace Project No.: 60477285

QC Batch: 938578
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: 60477285002

METHOD BLANK: 3721324 Matrix: Water
Associated Lab Samples: 60477285002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrate as N	mg/L	<0.055	0.10	0.055	06/13/25 20:33	
Nitrite as N	mg/L	<0.035	0.10	0.035	06/13/25 20:33	

LABORATORY CONTROL SAMPLE: 3721325

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrate as N	mg/L	2.7	2.6	98	90-110	
Nitrite as N	mg/L	2.7	2.6	99	90-110	

MATRIX SPIKE SAMPLE: 3721326

Parameter	Units	60477292001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrate as N	mg/L	<0.055	2	1.2	58	80-120	M1
Nitrite as N	mg/L	<0.035	2	1.5	75	80-120	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3721327 3721328

Parameter	Units	60477285002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrate as N	mg/L	0.54	2	2	3.2	3.3	134	139	80-120	3	15	M1
Nitrite as N	mg/L	<0.035	2	2	2.1	2.1	103	107	80-120	4	15	

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QUALITY CONTROL DATA

Project: TEC BASA Additional-Revised Report
Pace Project No.: 60477285

QC Batch: 940067
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: 60477285001, 60477285002, 60477285004, 60477285006, 60477285007, 60477285008

METHOD BLANK: 3726998 Matrix: Water
Associated Lab Samples: 60477285001, 60477285002, 60477285004, 60477285006, 60477285007, 60477285008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	<0.53	1.0	0.53	07/03/25 23:06	
Fluoride	mg/L	<0.12	0.20	0.12	07/03/25 23:06	
Sulfate	mg/L	<0.55	1.0	0.55	07/03/25 23:06	

LABORATORY CONTROL SAMPLE: 3726999

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	2.6	104	90-110	
Sulfate	mg/L	5	5.2	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3727000 3727001

Parameter	Units	60476421003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	<0.53	5	5	6.0	6.7	115	127	80-120	10	15	H1,M1
Fluoride	mg/L	<0.12	2.5	2.5	3.1	3.0	124	122	80-120	2	15	H1,M1
Sulfate	mg/L	<0.55	5	5	6.2	6.4	121	125	80-120	3	15	H1,M1

MATRIX SPIKE SAMPLE: 3727002

Parameter	Units	60477285007 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	304	250	647	137	80-120	M1
Fluoride	mg/L	<0.12	2.5	2.9	116	80-120	
Sulfate	mg/L	806	250	1150	138	80-120	E,M1

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QUALITY CONTROL DATA

Project: TEC BASA Additional-Revised Report
Pace Project No.: 60477285

QC Batch: 940891
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: 60477285003, 60477285005

METHOD BLANK: 3730228 Matrix: Water
Associated Lab Samples: 60477285003, 60477285005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	<0.53	1.0	0.53	07/08/25 12:51	
Fluoride	mg/L	<0.12	0.20	0.12	07/08/25 12:51	
Sulfate	mg/L	<0.55	1.0	0.55	07/08/25 12:51	

LABORATORY CONTROL SAMPLE: 3730229

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	5.3	107	90-110	
Fluoride	mg/L	2.5	2.6	106	90-110	
Sulfate	mg/L	5	5.1	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3730230 3730231

Parameter	Units	60477285003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	281	250	250	524	589	97	123	80-120	12	15	M1
Fluoride	mg/L	0.19J	2.5	2.5	2.8	2.8	105	106	80-120	0	15	
Sulfate	mg/L	190	250	250	409	475	88	114	80-120	15	15	

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QUALITY CONTROL DATA

Project: TEC BASA Additional-Revised Report
Pace Project No.: 60477285

QC Batch: 857566
QC Batch Method: EPA 353.2
Analysis Method: EPA 353.2
Analysis Description: 353.2 Nitrate + Nitrite, preserved
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 60477285001, 60477285002, 60477285003, 60477285004, 60477285005, 60477285006, 60477285007, 60477285008

METHOD BLANK: 3928006 Matrix: Water
Associated Lab Samples: 60477285001, 60477285002, 60477285003, 60477285004, 60477285005, 60477285006, 60477285007, 60477285008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	<0.013	0.10	0.013	08/12/25 08:32	

LABORATORY CONTROL SAMPLE: 3928007

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2	2.0	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3928008 3928009

Parameter	Units	60477285004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	3.6	4	4	7.6	7.5	99	99	90-110	0	20	H1

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QUALITY CONTROL DATA

Project: TEC BASA Additional-Revised Report
Pace Project No.: 60477285

QC Batch: 851700
QC Batch Method: EPA 365.1
Analysis Method: EPA 365.1
Analysis Description: 365.1 Total Phosphorus
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 60477285001, 60477285002, 60477285003, 60477285004, 60477285005, 60477285006, 60477285007, 60477285008

METHOD BLANK: 3901491 Matrix: Water
Associated Lab Samples: 60477285001, 60477285002, 60477285003, 60477285004, 60477285005, 60477285006, 60477285007, 60477285008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Phosphorus	mg/L	<0.044	0.050	0.044	07/02/25 16:21	

LABORATORY CONTROL SAMPLE: 3901492

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphorus	mg/L	0.5	0.56	111	90-110	L5

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3901493 3901494

Parameter	Units	60477063008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phosphorus	mg/L	ND	0.5	0.5	0.51	0.52	98	99	90-110	1	20	

MATRIX SPIKE SAMPLE: 3901495

Parameter	Units	60477285004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phosphorus	mg/L	0.076	0.5	0.56	98	90-110	

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QUALITY CONTROL DATA

Project: TEC BASA Additional-Revised Report
Pace Project No.: 60477285

QC Batch: 940190
QC Batch Method: SM 5310C
Analysis Method: SM 5310C
Analysis Description: 5310C Total Organic Carbon
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60477285001, 60477285002, 60477285003, 60477285004, 60477285005, 60477285006, 60477285007, 60477285008

METHOD BLANK: 3727829 Matrix: Water
Associated Lab Samples: 60477285001, 60477285002, 60477285003, 60477285004, 60477285005, 60477285006, 60477285007, 60477285008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Organic Carbon	mg/L	<0.54	1.0	0.54	06/30/25 00:03	

LABORATORY CONTROL SAMPLE: 3727830

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	5	5.8	117	80-120	

MATRIX SPIKE SAMPLE: 3727831

Parameter	Units	60477292005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	2.7	5	8.1	107	80-120	

SAMPLE DUPLICATE: 3727832

Parameter	Units	60477292005 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Organic Carbon	mg/L	2.7	2.7	1	25	

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QUALITY CONTROL DATA

Project: TEC BASA Additional-Revised Report
Pace Project No.: 60477285

QC Batch: 939457
QC Batch Method: SM 5310C
Analysis Method: SM 5310C
Analysis Description: 5310C Dissolved Organic Carbon
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60477285004

METHOD BLANK: 3724779 Matrix: Water
Associated Lab Samples: 60477285004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Dissolved Organic Carbon	mg/L	<0.54	1.0	0.54	06/23/25 12:48	

LABORATORY CONTROL SAMPLE: 3724780

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	5	5.8	116	80-120	

MATRIX SPIKE SAMPLE: 3724781

Parameter	Units	60476352004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	6.8	10	18.6	117	80-120	

SAMPLE DUPLICATE: 3724782

Parameter	Units	60476352002 Result	Dup Result	RPD	Max RPD	Qualifiers
Dissolved Organic Carbon	mg/L	1.5	1.3	11	25	

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QUALITY CONTROL DATA

Project: TEC BASA Additional-Revised Report
Pace Project No.: 60477285

QC Batch: 940422
QC Batch Method: SM 5310C
Analysis Method: SM 5310C
Analysis Description: 5310C Dissolved Organic Carbon
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60477285001, 60477285002, 60477285003, 60477285005, 60477285006, 60477285007, 60477285008

METHOD BLANK: 3728472 Matrix: Water
Associated Lab Samples: 60477285001, 60477285002, 60477285003, 60477285005, 60477285006, 60477285007, 60477285008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Dissolved Organic Carbon	mg/L	<0.54	1.0	0.54	07/01/25 18:08	

LABORATORY CONTROL SAMPLE: 3728473

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	5	5.8	117	80-120	

MATRIX SPIKE SAMPLE: 3728474

Parameter	Units	60477292002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	5.3	25	33.8	114	80-120	

SAMPLE DUPLICATE: 3728475

Parameter	Units	60477292002 Result	Dup Result	RPD	Max RPD	Qualifiers
Dissolved Organic Carbon	mg/L	5.3	5.3	1	25	D3

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QUALIFIERS

Project: TEC BASA Additional-Revised Report
Pace Project No.: 60477285

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

D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
E	Analyte concentration exceeded the calibration range. The reported result is estimated.
H1	Analysis conducted outside the EPA method holding time.
H1	Analysis conducted outside the recognized method holding time.
H6	Analysis initiated outside of the 15 minute EPA required holding time.
L5	LCS recovery exceeded QC limits. Batch accepted based on matrix spike recovery within LCS 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.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: TEC BASA Additional-Revised Report
Pace Project No.: 60477285

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60477285001	**MW-7-061325**	EPA 200.7	938598	EPA 200.7	938657
60477285002	**MW-8-061325**	EPA 200.7	938598	EPA 200.7	938657
60477285003	**MW-10-061225**	EPA 200.7	938598	EPA 200.7	938657
60477285004	**MW-11A-061225**	EPA 200.7	938598	EPA 200.7	938657
60477285005	**MW-12-061225**	EPA 200.7	938598	EPA 200.7	938657
60477285006	**MW-13-061225**	EPA 200.7	938598	EPA 200.7	938657
60477285007	**MW-14061225**	EPA 200.7	938598	EPA 200.7	938657
60477285008	**TEC-BASA-DUP-061325**	EPA 200.7	938598	EPA 200.7	938657
60477285001	**MW-7-061325**	EPA 200.7	938600	EPA 200.7	938658
60477285002	**MW-8-061325**	EPA 200.7	938600	EPA 200.7	938658
60477285003	**MW-10-061225**	EPA 200.7	938600	EPA 200.7	938658
60477285004	**MW-11A-061225**	EPA 200.7	938600	EPA 200.7	938658
60477285005	**MW-12-061225**	EPA 200.7	938600	EPA 200.7	938658
60477285006	**MW-13-061225**	EPA 200.7	938600	EPA 200.7	938658
60477285007	**MW-14061225**	EPA 200.7	938600	EPA 200.7	938658
60477285008	**TEC-BASA-DUP-061325**	EPA 200.7	938600	EPA 200.7	938658
60477285001	**MW-7-061325**	EPA 200.8	938597	EPA 200.8	938656
60477285002	**MW-8-061325**	EPA 200.8	938597	EPA 200.8	938656
60477285003	**MW-10-061225**	EPA 200.8	938597	EPA 200.8	938656
60477285004	**MW-11A-061225**	EPA 200.8	938597	EPA 200.8	938656
60477285005	**MW-12-061225**	EPA 200.8	938597	EPA 200.8	938656
60477285006	**MW-13-061225**	EPA 200.8	938597	EPA 200.8	938656
60477285007	**MW-14061225**	EPA 200.8	938597	EPA 200.8	938656
60477285008	**TEC-BASA-DUP-061325**	EPA 200.8	938597	EPA 200.8	938656
60477285001	**MW-7-061325**	EPA 200.8	938602	EPA 200.8	938659
60477285002	**MW-8-061325**	EPA 200.8	938602	EPA 200.8	938659
60477285003	**MW-10-061225**	EPA 200.8	938602	EPA 200.8	938659
60477285004	**MW-11A-061225**	EPA 200.8	938602	EPA 200.8	938659
60477285005	**MW-12-061225**	EPA 200.8	938602	EPA 200.8	938659
60477285006	**MW-13-061225**	EPA 200.8	938602	EPA 200.8	938659
60477285007	**MW-14061225**	EPA 200.8	938602	EPA 200.8	938659
60477285008	**TEC-BASA-DUP-061325**	EPA 200.8	938602	EPA 200.8	938659
60477285001	**MW-7-061325**	SM 2320B	938726		
60477285002	**MW-8-061325**	SM 2320B	938726		
60477285003	**MW-10-061225**	SM 2320B	938725		
60477285004	**MW-11A-061225**	SM 2320B	938725		
60477285005	**MW-12-061225**	SM 2320B	938725		
60477285006	**MW-13-061225**	SM 2320B	938725		
60477285007	**MW-14061225**	SM 2320B	938725		
60477285008	**TEC-BASA-DUP-061325**	SM 2320B	938726		
60477285001	**MW-7-061325**	SM 2540C	938928		
60477285002	**MW-8-061325**	SM 2540C	938928		
60477285003	**MW-10-061225**	SM 2540C	938928		
60477285004	**MW-11A-061225**	SM 2540C	938928		
60477285005	**MW-12-061225**	SM 2540C	938928		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: TEC BASA Additional-Revised Report
Pace Project No.: 60477285

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60477285006	**MW-13-061225**	SM 2540C	938928		
60477285007	**MW-14061225**	SM 2540C	938928		
60477285008	**TEC-BASA-DUP-061325**	SM 2540C	938928		
60477285001	**MW-7-061325**	SM 3500-Fe B#4	939104		
60477285002	**MW-8-061325**	SM 3500-Fe B#4	939104		
60477285003	**MW-10-061225**	SM 3500-Fe B#4	939104		
60477285004	**MW-11A-061225**	SM 3500-Fe B#4	939104		
60477285005	**MW-12-061225**	SM 3500-Fe B#4	939104		
60477285006	**MW-13-061225**	SM 3500-Fe B#4	939104		
60477285007	**MW-14061225**	SM 3500-Fe B#4	939104		
60477285008	**TEC-BASA-DUP-061325**	SM 3500-Fe B#4	939104		
60477285001	**MW-7-061325**	SM 4500-S-2 D	938793		
60477285002	**MW-8-061325**	SM 4500-S-2 D	938793		
60477285003	**MW-10-061225**	SM 4500-S-2 D	938793		
60477285004	**MW-11A-061225**	SM 4500-S-2 D	938793		
60477285005	**MW-12-061225**	SM 4500-S-2 D	938793		
60477285006	**MW-13-061225**	SM 4500-S-2 D	938793		
60477285007	**MW-14061225**	SM 4500-S-2 D	938793		
60477285008	**TEC-BASA-DUP-061325**	SM 4500-S-2 D	938793		
60477285002	**MW-8-061325**	EPA 300.0	938578		
60477285001	**MW-7-061325**	EPA 300.0	940067		
60477285002	**MW-8-061325**	EPA 300.0	940067		
60477285003	**MW-10-061225**	EPA 300.0	940891		
60477285004	**MW-11A-061225**	EPA 300.0	940067		
60477285005	**MW-12-061225**	EPA 300.0	940891		
60477285006	**MW-13-061225**	EPA 300.0	940067		
60477285007	**MW-14061225**	EPA 300.0	940067		
60477285008	**TEC-BASA-DUP-061325**	EPA 300.0	940067		
60477285001	**MW-7-061325**	EPA 353.2	857566		
60477285002	**MW-8-061325**	EPA 353.2	857566		
60477285003	**MW-10-061225**	EPA 353.2	857566		
60477285004	**MW-11A-061225**	EPA 353.2	857566		
60477285005	**MW-12-061225**	EPA 353.2	857566		
60477285006	**MW-13-061225**	EPA 353.2	857566		
60477285007	**MW-14061225**	EPA 353.2	857566		
60477285008	**TEC-BASA-DUP-061325**	EPA 353.2	857566		
60477285001	**MW-7-061325**	EPA 365.1	851700	EPA 365.1	852048
60477285002	**MW-8-061325**	EPA 365.1	851700	EPA 365.1	852048
60477285003	**MW-10-061225**	EPA 365.1	851700	EPA 365.1	852048
60477285004	**MW-11A-061225**	EPA 365.1	851700	EPA 365.1	852048
60477285005	**MW-12-061225**	EPA 365.1	851700	EPA 365.1	852048
60477285006	**MW-13-061225**	EPA 365.1	851700	EPA 365.1	852048
60477285007	**MW-14061225**	EPA 365.1	851700	EPA 365.1	852048
60477285008	**TEC-BASA-DUP-061325**	EPA 365.1	851700	EPA 365.1	852048

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: TEC BASA Additional-Revised Report
Pace Project No.: 60477285

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60477285001	**MW-7-061325**	SM 5310C	940190		
60477285002	**MW-8-061325**	SM 5310C	940190		
60477285003	**MW-10-061225**	SM 5310C	940190		
60477285004	**MW-11A-061225**	SM 5310C	940190		
60477285005	**MW-12-061225**	SM 5310C	940190		
60477285006	**MW-13-061225**	SM 5310C	940190		
60477285007	**MW-14061225**	SM 5310C	940190		
60477285008	**TEC-BASA-DUP-061325**	SM 5310C	940190		
60477285001	**MW-7-061325**	SM 5310C	940422		
60477285002	**MW-8-061325**	SM 5310C	940422		
60477285003	**MW-10-061225**	SM 5310C	940422		
60477285004	**MW-11A-061225**	SM 5310C	939457		
60477285005	**MW-12-061225**	SM 5310C	940422		
60477285006	**MW-13-061225**	SM 5310C	940422		
60477285007	**MW-14061225**	SM 5310C	940422		
60477285008	**TEC-BASA-DUP-061325**	SM 5310C	940422		

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Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-LENE-0009_Samp	WO# : 60477285
	Revision: 2	Effective Date: 01/12/20

60477285

Client Name: Evergy Kansas central, Inc.

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 ☑ ZIPLOC

Thermometer Used: T301 **Type of Ice:** (Wet) Blue None

Cooler Temperature (°C): **As-read** 5.7 **Corr. Factor** +0.1 **Corrected** 5.8

Temperature should be above freezing to 6°C 3.8, 3.1 3.9, 3.2

Date and initials of person examining contents: JA 6/14/25

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	NOX
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$_2$SO$_4$, HCl<2; NaOH>9 Sulfide, NaOH>10 Cyanide) (Exceptions: VOA, Micro, O&G, KS TPH, OK-DRO) LOT#: 88727, 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

66477285

Scan QR Code for instructions

Company Name:	Evergy Kansas Central, Inc.	Contact/Report To:	Jake Humphrey
Street Address:	818 S Kansas Avenue Topeka, KS 66612	Phone #:	(913)634-0605
		E-Mail:	jake.humphrey@evergy.com
		Cc E-Mail:	skaney@haleyaldrich.com
Customer Project #:			
Project Name:	TEC BASA Additional	Invoice To:	Tecumseh Center
		Invoice E-Mail:	apinvoicing@evergy.com
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	WSTR-2000094802
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [X] CT [ ] ET

County / State origin of sample(s): Kansas

Data Deliverables:
[ ] Level II [ ] Level III [ ] Level IV
[ ] EQUIS
[ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [ ] Yes [X] 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): [X] Yes [ ] No
Analysis: Metals, Dissolved and DOC

* 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	200.7 / 200.8 **see list	200.7 /200.8 Dissolved *see list	2320B Alkalinity,Carb/Bicarb,Total Dissolved Solids	300.0 NO2NO3, Cl,F,SO4, pH	4500S2D Sulfide, Total	5310C Dissolved Organic Carbon	5310C TOC	Iron, Ferrous	Total Phos, NO2NO3 pres	Sample Comment
Specify Container Size **										3	3	3	3	3	3	3	6	3	
Identify Container Preservative Type***										2	2	1	1	5,6	3	3	4	3	
MW-7-061325	WT	Grab	-	-	6/13/2025	1005	11	-	-	X	X	X	X	X	X	X	X	X	
MW-8-061325	WT	Grab	-	-	6/13/2025	855	11	-	-	X	X	X	X	X	X	X	X	X	
MW-9-061325	NS	NS	-	-	NS	NS	NS	-	-	-	-	-	-	-	-	-	-	-	NS - No Sample; Insufficient Groundwater
MW-10-061225	WT	Grab	-	-	6/12/2025	1100	11	-	-	X	X	X	X	X	X	X	X	X	
MW-11A-061225	WT	Grab	-	-	6/12/2025	935	11	-	-	X	X	X	X	X	X	X	X	X	
MW-12-061225	WT	Grab	-	-	6/12/2025	1245	11	-	-	X	X	X	X	X	X	X	X	X	
MW-13-061225	WT	Grab	-	-	6/12/2025	1420	11	-	-	X	X	X	X	X	X	X	X	X	
MW-14-061225	WT	Grab	-	-	6/12/2025	1550	11	-	-	X	X	X	X	X	X	X	X	X	
TEC-BASA-DUP-061325	WT	Grab	-	-	6/13/2025	1005	11	-	-	X	X	X	X	X	X	X	X	X	

**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: Alice Spiller
AcctNum / Client ID:
Table #:
Profile / Template: 16502
Prelog / Bottle Ord. ID: EZ 3266658

Preservation non-conformance identified for sample.

Additional Instructions from Pace®:
200.7 B, Ca, Mg, Na,K / 200.8 Al, Fe, Mn, Hardness Dissolved; 200.7 Mg, 200.8 As, Co, Fe, Al, Mn

Collected By: (Printed Name) Jason R. Franks
Signature: Jason R. Franks

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)	On Ice:
				5.8	

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
Jason R. Franks / SCS	06/13/2025 / 15:00	DF Pace	6/13 1551	
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 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/

WO# : 50405233

50405233

stody

ush Multiplier_____X

amples Pre-Logged into eCOC

EC BASA Additional

State Of Origin: KS

Cert. Needed: [X] Yes [ ] No

Owner Received Date: 6/13/2025 Results Requested By: 6/30/2025

Alice Spiller Pace Analytical Kansas 9608 Loiret Blvd. Lenexa, KS 66219 Phone (913)599-5665	contract To Pace Analytical Indianapolis 7726 Moller Road Indianapolis, IN 46268 Phone (317)875-5894

						Preserved Containers						Requested Analysis													
Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	H2SO4						365.4 Total Phosphorus	NO2NO3 pres												LAB USE ONLY
1	MW-7-061325	PS	6/13/2025 10:05	60477285001	Water	1						X	X												
2	MW-8-061325	PS	6/13/2025 08:55	60477285002	Water	1						X	X												
3	MW-10-061225	PS	6/12/2025 11:00	60477285003	Water	1						X	X												
4	MW-11A-061225	PS	6/12/2025 09:35	60477285004	Water	1						X	X												
5	MW-12-061225	PS	6/12/2025 12:45	60477285005	Water	1						X	X												
6	MW-13-061225	PS	6/12/2025 14:20	60477285006	Water	1						X	X												
7	MW-14061225	PS	6/12/2025 15:50	60477285007	Water	1						X	X												
8	TEC-BASA-DUP-061325	PS	6/13/2025 10:05	60477285008	Water	1						X	X												

Transfers	Released By	Date/Time	Received By	Date/Time
1	FedEx Pace	6/19 1700	FedEx Tim Hunt Pace	
2				
3				

Comments

LOCATION: 6090-R17-S5A

Cooler Temperature on Receipt 1.0 °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.

Pace

SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: 6/20/25 13:00 TBH

1. Thermometer: 1 2 3 4 5 6 7 8 9 (A) B C D E F G H I

2. Cooler Temperature(s): (Initial/Corrected) 4.1/4.0 | | | |

RECORD TEMPS OF ALL COOLERS RECEIVED (use Comments below to add more)

3. Was the PM notified of out of temp cooler?: (leave blank if samples are in temp) Yes No

Cooler temp should be above freezing to 6°C

If the PM was contacted in the comments below please write how they instructed the project to proceed

3. Packing Material: Bubble Wrap Bubble Bags (None) Other _____

4. Ice Type: (Wet) Blue None

5. Courier: (Fed Ex) UPS Client Pace Now/Jett Other

6. Custody Seal on Cooler/Box Present: (Yes) No

(If yes)Seals Intact: (Yes) No (leave blank if no seals were present)

All discrepancies will be written out in the comments section below.

	Yes	No
USDA Regulated Soils? (HI, ID, NY, WA, OR,CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		✓
Short Hold Time Analysis (48 hours or less)? Analysis:		✓
Time 5035A TC placed in Freezer or Short Holds To Lab	Time:	
Rush TAT Requested (4 days or less):		✓
Custody Signatures Present?	✓	
Containers Intact?	✓	
Sample Label (IDs/Dates/Times) Match COC?: (except TCs, which only require sample ID	✓	
Comments:		

	Yes	No	N/A
All containers needing acid/base preservation have been pH CHECKED?: Exceptions: VOA, coliform, LLHg, O&G, RAD CHEM, and any container with a septum cap or preserved with HCl. Circle: HNO3 (<2) H2SO4 (<2) NaOH (>10) NaOH/ZnAc (>9) Any non-conformance to pH recommendations will be noted on the container count form	✓		
	Present	Absent	N/A
Residual Chlorine Check (SVOC 625 Pest/PCB 608)			✓
Residual Chlorine Check (Total/Amenable/Free Cyanide)			✓
	Present	Absent	No VOA Vials Sent
Headspace in VOA Vials (>6mm): See Containter Count form for details			✓
Trip Blank Present?		✓	
Trip Blank Custody Seals?:			✓
Extra labels on Terracore Vials? (soils only)			✓

COC PAGE 1 of 1

Sample Container Count

** Place a PINK dot on containers that are out of conformance **

COC Line Item	WGFU	WGKU BG1U	MeOH (env) SBS DI R	DG9H VG9H	VOA VIAL HS (>6mm)	VG9U DG9U	VG9T	AMBER GLASS: AG0U	AG1H	AG1U	AG3U	AG3S	AG3SF	AG3B	PLASTIC: BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	OTHER: CG3H	CG3F	Syringe Kit			Matrix	Nitric Red HNO3 <2	Sulfuric Yellow H2SO4 <2	Sodium Hydroxide Green NaOH >10	Sodium Hydroxide/ ZnAc Black NaOH/Zn Ac >9
1																																
2																																
3																																
4																																
5																																
6																																
7																																
8																																
9																																
10																																
11																																
12																																

Container Codes

Glass

DG9H	40mL HCl amber voa vial	BG1T	1L Na Thiosulfate clear glass
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass
DG9S	40mL H2SO4 amber vial	CG3H	250mL HCl Clear Glass
DG9T	40mL Na Thio amber vial	CG3U	250mL Unpres Clear Glass
DG9U	40mL unpreserved amber vial	AG0U	100mL unpres amber glass
VG9H	40mL HCl clear vial	AG1H	1L HCl amber glass
VG9T	40mL Na Thio. clear vial	AG1S	1L H2SO4 amber glass
VG9U	40mL unpreserved clear vial	AG1T	1L Na Thiosulfate amber glass
I	40mL w/hexane wipe vial	AG1U	1liter unpres amber glass
WGKU	8oz unpreserved clear jar	AG2N	500mL HNO3 amber glass
WGFU	4oz clear soil jar	AG2S	500mL H2SO4 amber glass
JGFU	4oz unpreserved amber wide	AG2U	500mL unpres amber glass
CG3H	250mL clear glass HCl	AG3S	250mL H2SO4 amber glass
CG3F	250mL clear glass HCl. Field Filter	AG3SF	250mL H2SO4 amb glass -field filtered
BG1H	1L HCl clear glass	AG3U	250mL unpres amber glass
BG1S	1L H2SO4 clear glass	AG3B	250mL NaOH amber glass

Plastic

BP1B	1L NaOH plastic
BP1N	1L HNO3 plastic
BP1S	1L H2SO4 plastic
BP1U	1L unpreserved plastic
BP1Z	1L NaOH, Zn, Ac
BP2N	500mL HNO3 plastic
BP2C	500mL NaOH plastic
BP2S	500mL H2SO4 plastic
BP2U	500mL unpreserved plastic
BP2Z	500mL NaOH, Zn Ac
BP3B	250mL NaOH plastic
BP3N	250mL HNO3 plastic
BP3F	250mL HNO3 plastic-field filtered
BP3U	250mL unpreserved plastic
BP3S	250mL H2SO4 plastic
BP3Z	250mL NaOH, ZnAc plastic

NT3U	Non Teflon 250mL unpreserved plastic
BP4U	125mL unpreserved plastic
BP4N	125mL HNO3 plastic
BP4S	125mL H2SO4 plastic

Miscellaneous

Syringe Kit	LL Cr+6 sampling kit
ZPLC	Ziploc Bag
R	Terracore Kit
SP5T	120mL Coliform Sodium Thiosulfate
GN	General Container
U	Summa Can (air sample)
WT	Water
SL	Solid
OL:	Oil
NAL	Non-aqueous liquid
WP	Wipe

INTER_LABORATORY WORK ORDER # 60477285

(To be completed by sending lab)

Ship To:
Pace Analytical Indianapolis
7726 Moller Road
Indianapolis, IN 46268
Phone (317)875-5894

Sending Project No:	60477285
Receiving Project No:	
Check Box for Consolidated Invoice:	☐
Date Prepared:	06/18/25
REQUESTED COMPLETION DATE:	**6/30/2025**

Sending Region	IR60-Kansas	Sending Project Mgr.	Alice Spiller
Receiving Region	IR50-Indianapolis	External Client	Evergy_Haley & Aldrich
State of Sample Origin	KS	QC Deliverable	STD REPORT

All questions should be addressed to sending project manager.

Requested Reportable Units _____ Report Wet or Dry Weight? _____ ☐ IRWO Lab Need to run? Cert. Needed Yes

WORK REQUESTED

Method Description	Container Type	Quantity of containers	Preservative	Quantity of Samples	Acode	Acode Desc
NO2NO3 pres	BP3S	8	H2SO4	8	SI-21WET	SUB PASI WET
365.4 Total Phosphorus			H2SO4	8	SI-21WET0	SUB PASI WTA

Special Requirements: Report C, QC Limits (C),Haley & Aldrich Equis (230),PEG Level BR (497)

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.

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

July 16, 2025

Jake Humphrey
Evergy, Inc.
818 S Kansas Avenue
Topeka, KS 66612

RE: Project: TEC BASA
Pace Project No.: 60477289

Dear Jake Humphrey:

Enclosed are the analytical results for sample(s) received by the laboratory on June 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,

Alice Spiller

Alice Spiller
alice.spiller@pacelabs.com
(913)599-5665
PM Lab Management

Enclosures

cc: Samantha Kaney, Haley & Aldrich
Melanie Satanek, Haley & Aldrich, Inc.
Adriana Sosa, Haley & Aldrich, Inc.
Nick Williams, Haley Aldrich

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Lenexa, KS 66219
(913)599-5665

CERTIFICATIONS

Project: TEC BASA
Pace Project No.: 60477289

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

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Lenexa, KS 66219
(913)599-5665

SAMPLE SUMMARY

Project: TEC BASA
Pace Project No.: 60477289

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60477289001	**MW-7-061325**	Water	06/13/25 10:05	06/13/25 15:52
60477289002	**MW-8-061325**	Water	06/13/25 08:55	06/13/25 15:52
60477289003	**MW-10-061225**	Water	06/12/25 11:00	06/13/25 15:52
60477289004	**MW-11A-061225**	Water	06/12/25 09:35	06/13/25 15:52
60477289005	**MW-12-061225**	Water	06/12/25 12:45	06/13/25 15:52
60477289006	**MW-13-061225**	Water	06/12/25 14:20	06/13/25 15:52
60477289007	**MW-14-061225**	Water	06/12/25 15:50	06/13/25 15:52
60477289008	**TEC-BASA-DUP-061325**	Water	06/13/25 10:05	06/13/25 15:52

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Lenexa, KS 66219
(913)599-5665

SAMPLE ANALYTE COUNT

Project: TEC BASA
Pace Project No.: 60477289

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60477289001	**MW-7-061325**	EPA 6010	ARMN	1	PASI-K
		EPA 200.8	JGP	11	PASI-K
		EPA 245.1	MNG	1	PASI-K
		EPA 300.0	MLD	1	PASI-K
60477289002	**MW-8-061325**	EPA 6010	ARMN	1	PASI-K
		EPA 200.8	JGP	11	PASI-K
		EPA 245.1	MNG	1	PASI-K
		EPA 300.0	MLD	1	PASI-K
60477289003	**MW-10-061225**	EPA 6010	ARMN	1	PASI-K
		EPA 200.8	JGP	11	PASI-K
		EPA 245.1	MNG	1	PASI-K
		EPA 300.0	MLD	1	PASI-K
60477289004	**MW-11A-061225**	EPA 6010	ARMN	1	PASI-K
		EPA 200.8	JGP	11	PASI-K
		EPA 245.1	MNG	1	PASI-K
		EPA 300.0	MLD	1	PASI-K
60477289005	**MW-12-061225**	EPA 6010	ARMN	1	PASI-K
		EPA 200.8	JGP	11	PASI-K
		EPA 245.1	MNG	1	PASI-K
		EPA 300.0	MLD	1	PASI-K
60477289006	**MW-13-061225**	EPA 6010	ARMN	1	PASI-K
		EPA 200.8	JGP	11	PASI-K
		EPA 245.1	MNG	1	PASI-K
		EPA 300.0	MLD	1	PASI-K
60477289007	**MW-14-061225**	EPA 6010	ARMN	1	PASI-K
		EPA 200.8	JGP	11	PASI-K
		EPA 245.1	MNG	1	PASI-K
		EPA 300.0	MLD	1	PASI-K
60477289008	**TEC-BASA-DUP-061325**	EPA 6010	ARMN	1	PASI-K
		EPA 200.8	JGP	11	PASI-K
		EPA 245.1	MNG	1	PASI-K
		EPA 300.0	MLD	1	PASI-K

PASI-K = Pace Analytical Services - Kansas City

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PROJECT NARRATIVE

Project: TEC BASA
Pace Project No.: 60477289

Method: **EPA 6010**
Description: 6010 MET ICP
Client: Evergy_Haley & Aldrich
Date: July 16, 2025

General Information:
8 samples were analyzed for EPA 6010 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA
Pace Project No.: 60477289

Method: **EPA 200.8**
Description: 200.8 MET ICPMS
Client: Evergy_Haley & Aldrich
Date: July 16, 2025

General Information:
8 samples were analyzed for EPA 200.8 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 200.8 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: 939223

D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

- MW-11A-061225 (Lab ID: 60477289004)
  - Thallium, Total Recoverable

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PROJECT NARRATIVE

Project: TEC BASA
Pace Project No.: 60477289

Method: **EPA 245.1**
Description: 245.1 Mercury
Client: Evergy_Haley & Aldrich
Date: July 16, 2025

General Information:
8 samples were analyzed for EPA 245.1 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 245.1 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA
Pace Project No.: 60477289

Method: **EPA 300.0**
Description: 300.0 IC Anions 28 Days
Client: Evergy_Haley & Aldrich
Date: July 16, 2025

General Information:
8 samples were analyzed for EPA 300.0 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

H1: Analysis conducted outside the EPA method holding time.
- MW-10-061225 (Lab ID: 60477289003)
- MW-11A-061225 (Lab ID: 60477289004)
- MW-12-061225 (Lab ID: 60477289005)
- MW-13-061225 (Lab ID: 60477289006)
- MW-14-061225 (Lab ID: 60477289007)
- TEC-BASA-DUP-061325 (Lab ID: 60477289008)

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: TEC BASA
Pace Project No.: 60477289

Sample: MW-7-061325 **Lab ID: 60477289001** Collected: 06/13/25 10:05 Received: 06/13/25 15:52 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Kansas City							
Lithium, Total Recoverable	**31.4**	ug/L	10.0	1	06/23/25 15:49	07/07/25 11:29	7439-93-2	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City							
Antimony, Total Recoverable	**<0.0010**	mg/L	0.0010	1	06/20/25 09:00	07/07/25 11:55	7440-36-0	
Arsenic, Total Recoverable	**<0.0010**	mg/L	0.0010	1	06/20/25 09:00	07/07/25 11:55	7440-38-2	
Barium, Total Recoverable	**0.064**	mg/L	0.0010	1	06/20/25 09:00	07/07/25 11:55	7440-39-3	
Beryllium, Total Recoverable	**<0.00050**	mg/L	0.00050	1	06/20/25 09:00	07/07/25 11:55	7440-41-7	
Cadmium, Total Recoverable	**<0.00050**	mg/L	0.00050	1	06/20/25 09:00	07/07/25 11:55	7440-43-9	
Chromium, Total Recoverable	**<0.0010**	mg/L	0.0010	1	06/20/25 09:00	07/07/25 11:55	7440-47-3	
Cobalt, Total Recoverable	**<0.0010**	mg/L	0.0010	1	06/20/25 09:00	07/07/25 11:55	7440-48-4	
Lead, Total Recoverable	**<0.0010**	mg/L	0.0010	1	06/20/25 09:00	07/07/25 11:55	7439-92-1	
Molybdenum, Total Recoverable	**0.017**	mg/L	0.0010	1	06/20/25 09:00	07/07/25 11:55	7439-98-7	
Selenium, Total Recoverable	**<0.0010**	mg/L	0.0010	1	06/20/25 09:00	07/07/25 11:55	7782-49-2	
Thallium, Total Recoverable	**<0.0010**	mg/L	0.0010	1	06/20/25 09:00	07/07/25 11:55	7440-28-0	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Kansas City							
Mercury	**<0.20**	ug/L	0.20	1	06/27/25 15:03	06/30/25 11:59	7439-97-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City							
Fluoride	**<0.20**	mg/L	0.20	1		07/11/25 22:42	16984-48-8	

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ANALYTICAL RESULTS

Project: TEC BASA
Pace Project No.: 60477289

Sample: MW-8-061325 **Lab ID: 60477289002** Collected: 06/13/25 08:55 Received: 06/13/25 15:52 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Kansas City							
Lithium, Total Recoverable	**19.7**	ug/L	10.0	1	06/23/25 15:49	07/07/25 11:36	7439-93-2	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City							
Antimony, Total Recoverable	**<0.0010**	mg/L	0.0010	1	06/20/25 09:00	07/07/25 12:03	7440-36-0	
Arsenic, Total Recoverable	**0.0014**	mg/L	0.0010	1	06/20/25 09:00	07/07/25 12:03	7440-38-2	
Barium, Total Recoverable	**0.058**	mg/L	0.0010	1	06/20/25 09:00	07/07/25 12:03	7440-39-3	
Beryllium, Total Recoverable	**<0.00050**	mg/L	0.00050	1	06/20/25 09:00	07/07/25 12:03	7440-41-7	
Cadmium, Total Recoverable	**<0.00050**	mg/L	0.00050	1	06/20/25 09:00	07/07/25 12:03	7440-43-9	
Chromium, Total Recoverable	**0.0018**	mg/L	0.0010	1	06/20/25 09:00	07/07/25 12:03	7440-47-3	
Cobalt, Total Recoverable	**<0.0010**	mg/L	0.0010	1	06/20/25 09:00	07/07/25 12:03	7440-48-4	
Lead, Total Recoverable	**<0.0010**	mg/L	0.0010	1	06/20/25 09:00	07/07/25 12:03	7439-92-1	
Molybdenum, Total Recoverable	**0.045**	mg/L	0.0010	1	06/20/25 09:00	07/07/25 12:03	7439-98-7	
Selenium, Total Recoverable	**0.0011**	mg/L	0.0010	1	06/20/25 09:00	07/07/25 12:03	7782-49-2	
Thallium, Total Recoverable	**<0.0010**	mg/L	0.0010	1	06/20/25 09:00	07/07/25 12:03	7440-28-0	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Kansas City							
Mercury	**<0.20**	ug/L	0.20	1	06/27/25 15:03	06/30/25 12:01	7439-97-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City							
Fluoride	**<0.20**	mg/L	0.20	1		07/11/25 23:15	16984-48-8	

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ANALYTICAL RESULTS

Project: TEC BASA
Pace Project No.: 60477289

Sample: MW-10-061225 **Lab ID: 60477289003** Collected: 06/12/25 11:00 Received: 06/13/25 15:52 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Kansas City							
Lithium, Total Recoverable	**<10.0**	ug/L	10.0	1	06/23/25 15:49	07/07/25 11:38	7439-93-2	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City							
Antimony, Total Recoverable	**<0.0010**	mg/L	0.0010	1	06/20/25 09:00	07/07/25 12:06	7440-36-0	
Arsenic, Total Recoverable	**0.0080**	mg/L	0.0010	1	06/20/25 09:00	07/07/25 12:06	7440-38-2	
Barium, Total Recoverable	**0.17**	mg/L	0.0010	1	06/20/25 09:00	07/07/25 12:06	7440-39-3	
Beryllium, Total Recoverable	**<0.00050**	mg/L	0.00050	1	06/20/25 09:00	07/07/25 12:06	7440-41-7	
Cadmium, Total Recoverable	**<0.00050**	mg/L	0.00050	1	06/20/25 09:00	07/07/25 12:06	7440-43-9	
Chromium, Total Recoverable	**<0.0010**	mg/L	0.0010	1	06/20/25 09:00	07/07/25 12:06	7440-47-3	
Cobalt, Total Recoverable	**0.0057**	mg/L	0.0010	1	06/20/25 09:00	07/07/25 12:06	7440-48-4	
Lead, Total Recoverable	**<0.0010**	mg/L	0.0010	1	06/20/25 09:00	07/07/25 12:06	7439-92-1	
Molybdenum, Total Recoverable	**0.0027**	mg/L	0.0010	1	06/20/25 09:00	07/07/25 12:06	7439-98-7	
Selenium, Total Recoverable	**<0.0010**	mg/L	0.0010	1	06/20/25 09:00	07/07/25 12:06	7782-49-2	
Thallium, Total Recoverable	**<0.0010**	mg/L	0.0010	1	06/20/25 09:00	07/07/25 12:06	7440-28-0	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Kansas City							
Mercury	**<0.20**	ug/L	0.20	1	06/27/25 15:03	06/30/25 12:03	7439-97-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City							
Fluoride	**<0.20**	mg/L	0.20	1		07/11/25 23:26	16984-48-8	H1

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ANALYTICAL RESULTS

Project: TEC BASA
Pace Project No.: 60477289

Sample: MW-11A-061225 **Lab ID: 60477289004** Collected: 06/12/25 09:35 Received: 06/13/25 15:52 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Kansas City							
Lithium, Total Recoverable	**48.7**	ug/L	10.0	1	06/23/25 15:49	07/07/25 11:40	7439-93-2	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City							
Antimony, Total Recoverable	**<0.0010**	mg/L	0.0010	1	06/20/25 09:00	07/07/25 12:09	7440-36-0	
Arsenic, Total Recoverable	**0.0035**	mg/L	0.0010	1	06/20/25 09:00	07/07/25 12:09	7440-38-2	
Barium, Total Recoverable	**0.060**	mg/L	0.0010	1	06/20/25 09:00	07/07/25 12:09	7440-39-3	
Beryllium, Total Recoverable	**<0.00050**	mg/L	0.00050	1	06/20/25 09:00	07/07/25 12:09	7440-41-7	
Cadmium, Total Recoverable	**<0.00050**	mg/L	0.00050	1	06/20/25 09:00	07/07/25 12:09	7440-43-9	
Chromium, Total Recoverable	**0.0034**	mg/L	0.0010	1	06/20/25 09:00	07/07/25 12:09	7440-47-3	
Cobalt, Total Recoverable	**0.0077**	mg/L	0.0010	1	06/20/25 09:00	07/07/25 12:09	7440-48-4	
Lead, Total Recoverable	**0.0099**	mg/L	0.0020	2	06/20/25 09:00	07/07/25 14:20	7439-92-1	
Molybdenum, Total Recoverable	**0.0041**	mg/L	0.0010	1	06/20/25 09:00	07/07/25 12:09	7439-98-7	
Selenium, Total Recoverable	**0.0011**	mg/L	0.0010	1	06/20/25 09:00	07/07/25 12:09	7782-49-2	
Thallium, Total Recoverable	**<0.0020**	mg/L	0.0020	2	06/20/25 09:00	07/07/25 14:20	7440-28-0	D3
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Kansas City							
Mercury	**<0.20**	ug/L	0.20	1	06/27/25 15:03	06/30/25 12:05	7439-97-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City							
Fluoride	**<0.20**	mg/L	0.20	1		07/11/25 23:37	16984-48-8	H1

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ANALYTICAL RESULTS

Project: TEC BASA
Pace Project No.: 60477289

Sample: MW-12-061225 **Lab ID: 60477289005** Collected: 06/12/25 12:45 Received: 06/13/25 15:52 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Kansas City							
Lithium, Total Recoverable	**26.7**	ug/L	10.0	1	06/23/25 15:49	07/07/25 11:42	7439-93-2	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City							
Antimony, Total Recoverable	**<0.0010**	mg/L	0.0010	1	06/20/25 09:00	07/07/25 12:13	7440-36-0	
Arsenic, Total Recoverable	**0.0034**	mg/L	0.0010	1	06/20/25 09:00	07/07/25 12:13	7440-38-2	
Barium, Total Recoverable	**0.088**	mg/L	0.0010	1	06/20/25 09:00	07/07/25 12:13	7440-39-3	
Beryllium, Total Recoverable	**<0.00050**	mg/L	0.00050	1	06/20/25 09:00	07/07/25 12:13	7440-41-7	
Cadmium, Total Recoverable	**<0.00050**	mg/L	0.00050	1	06/20/25 09:00	07/07/25 12:13	7440-43-9	
Chromium, Total Recoverable	**<0.0010**	mg/L	0.0010	1	06/20/25 09:00	07/07/25 12:13	7440-47-3	
Cobalt, Total Recoverable	**0.033**	mg/L	0.0010	1	06/20/25 09:00	07/07/25 12:13	7440-48-4	
Lead, Total Recoverable	**0.0012**	mg/L	0.0010	1	06/20/25 09:00	07/07/25 12:13	7439-92-1	
Molybdenum, Total Recoverable	**0.0046**	mg/L	0.0010	1	06/20/25 09:00	07/07/25 12:13	7439-98-7	
Selenium, Total Recoverable	**<0.0010**	mg/L	0.0010	1	06/20/25 09:00	07/07/25 12:13	7782-49-2	
Thallium, Total Recoverable	**<0.0010**	mg/L	0.0010	1	06/20/25 09:00	07/07/25 12:13	7440-28-0	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Kansas City							
Mercury	**<0.20**	ug/L	0.20	1	06/27/25 15:03	06/30/25 12:08	7439-97-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City							
Fluoride	**<0.20**	mg/L	0.20	1		07/11/25 23:48	16984-48-8	H1

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ANALYTICAL RESULTS

Project: TEC BASA
Pace Project No.: 60477289

Sample: MW-13-061225 **Lab ID: 60477289006** Collected: 06/12/25 14:20 Received: 06/13/25 15:52 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Kansas City							
Lithium, Total Recoverable	**<10.0**	ug/L	10.0	1	06/23/25 15:49	07/07/25 11:44	7439-93-2	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City							
Antimony, Total Recoverable	**<0.0010**	mg/L	0.0010	1	06/20/25 09:00	07/07/25 12:21	7440-36-0	
Arsenic, Total Recoverable	**0.025**	mg/L	0.0010	1	06/20/25 09:00	07/07/25 12:21	7440-38-2	
Barium, Total Recoverable	**0.090**	mg/L	0.0010	1	06/20/25 09:00	07/07/25 12:21	7440-39-3	
Beryllium, Total Recoverable	**<0.00050**	mg/L	0.00050	1	06/20/25 09:00	07/07/25 12:21	7440-41-7	
Cadmium, Total Recoverable	**<0.00050**	mg/L	0.00050	1	06/20/25 09:00	07/07/25 12:21	7440-43-9	
Chromium, Total Recoverable	**0.0018**	mg/L	0.0010	1	06/20/25 09:00	07/07/25 12:21	7440-47-3	
Cobalt, Total Recoverable	**<0.0010**	mg/L	0.0010	1	06/20/25 09:00	07/07/25 12:21	7440-48-4	
Lead, Total Recoverable	**<0.0010**	mg/L	0.0010	1	06/20/25 09:00	07/07/25 12:21	7439-92-1	
Molybdenum, Total Recoverable	**0.066**	mg/L	0.0010	1	06/20/25 09:00	07/07/25 12:21	7439-98-7	
Selenium, Total Recoverable	**<0.0010**	mg/L	0.0010	1	06/20/25 09:00	07/07/25 12:21	7782-49-2	
Thallium, Total Recoverable	**<0.0010**	mg/L	0.0010	1	06/20/25 09:00	07/07/25 12:21	7440-28-0	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Kansas City							
Mercury	**<0.20**	ug/L	0.20	1	06/27/25 15:03	06/30/25 12:10	7439-97-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City							
Fluoride	**<0.20**	mg/L	0.20	1		07/11/25 23:59	16984-48-8	H1

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ANALYTICAL RESULTS

Project: TEC BASA
Pace Project No.: 60477289

Sample: MW-14-061225 **Lab ID: 60477289007** Collected: 06/12/25 15:50 Received: 06/13/25 15:52 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Kansas City							
Lithium, Total Recoverable	**33.5**	ug/L	10.0	1	06/23/25 15:49	07/07/25 11:45	7439-93-2	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City							
Antimony, Total Recoverable	**<0.0010**	mg/L	0.0010	1	06/20/25 09:00	07/07/25 12:27	7440-36-0	
Arsenic, Total Recoverable	**0.0014**	mg/L	0.0010	1	06/20/25 09:00	07/07/25 12:27	7440-38-2	
Barium, Total Recoverable	**0.031**	mg/L	0.0010	1	06/20/25 09:00	07/07/25 12:27	7440-39-3	
Beryllium, Total Recoverable	**<0.00050**	mg/L	0.00050	1	06/20/25 09:00	07/07/25 12:27	7440-41-7	
Cadmium, Total Recoverable	**<0.00050**	mg/L	0.00050	1	06/20/25 09:00	07/07/25 12:27	7440-43-9	
Chromium, Total Recoverable	**<0.0010**	mg/L	0.0010	1	06/20/25 09:00	07/07/25 12:27	7440-47-3	
Cobalt, Total Recoverable	**<0.0010**	mg/L	0.0010	1	06/20/25 09:00	07/07/25 12:27	7440-48-4	
Lead, Total Recoverable	**<0.0010**	mg/L	0.0010	1	06/20/25 09:00	07/07/25 12:27	7439-92-1	
Molybdenum, Total Recoverable	**0.029**	mg/L	0.0010	1	06/20/25 09:00	07/07/25 12:27	7439-98-7	
Selenium, Total Recoverable	**0.0060**	mg/L	0.0010	1	06/20/25 09:00	07/07/25 12:27	7782-49-2	
Thallium, Total Recoverable	**<0.0010**	mg/L	0.0010	1	06/20/25 09:00	07/07/25 12:27	7440-28-0	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Kansas City							
Mercury	**<0.20**	ug/L	0.20	1	06/27/25 15:03	06/30/25 12:17	7439-97-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City							
Fluoride	**<0.20**	mg/L	0.20	1		07/12/25 00:32	16984-48-8	H1

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ANALYTICAL RESULTS

Project: TEC BASA
Pace Project No.: 60477289

Sample: TEC-BASA-DUP-061325 **Lab ID: 60477289008** Collected: 06/13/25 10:05 Received: 06/13/25 15:52 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Kansas City							
Lithium, Total Recoverable	**31.1**	ug/L	10.0	1	06/23/25 10:05	07/08/25 21:02	7439-93-2	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City							
Antimony, Total Recoverable	**<0.0010**	mg/L	0.0010	1	06/20/25 09:00	07/07/25 12:31	7440-36-0	
Arsenic, Total Recoverable	**<0.0010**	mg/L	0.0010	1	06/20/25 09:00	07/07/25 12:31	7440-38-2	
Barium, Total Recoverable	**0.068**	mg/L	0.0010	1	06/20/25 09:00	07/07/25 12:31	7440-39-3	
Beryllium, Total Recoverable	**<0.00050**	mg/L	0.00050	1	06/20/25 09:00	07/07/25 12:31	7440-41-7	
Cadmium, Total Recoverable	**<0.00050**	mg/L	0.00050	1	06/20/25 09:00	07/07/25 12:31	7440-43-9	
Chromium, Total Recoverable	**<0.0010**	mg/L	0.0010	1	06/20/25 09:00	07/07/25 12:31	7440-47-3	
Cobalt, Total Recoverable	**<0.0010**	mg/L	0.0010	1	06/20/25 09:00	07/07/25 12:31	7440-48-4	
Lead, Total Recoverable	**<0.0010**	mg/L	0.0010	1	06/20/25 09:00	07/07/25 12:31	7439-92-1	
Molybdenum, Total Recoverable	**0.017**	mg/L	0.0010	1	06/20/25 09:00	07/07/25 12:31	7439-98-7	
Selenium, Total Recoverable	**<0.0010**	mg/L	0.0010	1	06/20/25 09:00	07/07/25 12:31	7782-49-2	
Thallium, Total Recoverable	**<0.0010**	mg/L	0.0010	1	06/20/25 09:00	07/07/25 12:31	7440-28-0	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Kansas City							
Mercury	**<0.20**	ug/L	0.20	1	06/27/25 15:03	06/30/25 12:28	7439-97-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City							
Fluoride	**<0.20**	mg/L	0.20	1		07/12/25 00:43	16984-48-8	H1

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QUALITY CONTROL DATA

Project: TEC BASA
Pace Project No.: 60477289

QC Batch: 940116 Analysis Method: EPA 245.1
QC Batch Method: EPA 245.1 Analysis Description: 245.1 Mercury
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60477289001, 60477289002, 60477289003, 60477289004, 60477289005, 60477289006

METHOD BLANK: 3727292 Matrix: Water
Associated Lab Samples: 60477289001, 60477289002, 60477289003, 60477289004, 60477289005, 60477289006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	<0.20	0.20	06/30/25 11:08	

LABORATORY CONTROL SAMPLE: 3727293

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.7	94	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3727294 3727295

Parameter	Units	60477497005 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	4.8	4.6	96	91	70-130	5	20	

MATRIX SPIKE SAMPLE: 3727296

Parameter	Units	60477288002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	<0.20	5	4.6	91	70-130	

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QUALITY CONTROL DATA

Project: TEC BASA
Pace Project No.: 60477289

QC Batch: 940117
QC Batch Method: EPA 245.1
Analysis Method: EPA 245.1
Analysis Description: 245.1 Mercury
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60477289007, 60477289008

METHOD BLANK: 3727297 Matrix: Water
Associated Lab Samples: 60477289007, 60477289008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	<0.20	0.20	06/30/25 12:12	

LABORATORY CONTROL SAMPLE: 3727298

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.8	96	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3727299 3727300

Parameter	Units	60477289007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	<0.20	5	5	4.4	4.3	88	85	70-130	4	20	

MATRIX SPIKE SAMPLE: 3727301

Parameter	Units	60477684003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	<0.20	5	4.2	84	70-130	

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QUALITY CONTROL DATA

Project: TEC BASA
Pace Project No.: 60477289

QC Batch: 939223
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: 60477289001, 60477289002, 60477289003, 60477289004, 60477289005, 60477289006, 60477289007, 60477289008

METHOD BLANK: 3723777 Matrix: Water
Associated Lab Samples: 60477289001, 60477289002, 60477289003, 60477289004, 60477289005, 60477289006, 60477289007, 60477289008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	mg/L	<0.0010	0.0010	07/07/25 11:21	
Arsenic	mg/L	<0.0010	0.0010	07/07/25 11:21	
Barium	mg/L	<0.0010	0.0010	07/07/25 11:21	
Beryllium	mg/L	<0.00050	0.00050	07/07/25 11:21	
Cadmium	mg/L	<0.00050	0.00050	07/07/25 11:21	
Chromium	mg/L	<0.0010	0.0010	07/07/25 11:21	
Cobalt	mg/L	<0.0010	0.0010	07/07/25 11:21	
Lead	mg/L	<0.0010	0.0010	07/07/25 11:21	
Molybdenum	mg/L	<0.0010	0.0010	07/07/25 11:21	
Selenium	mg/L	<0.0010	0.0010	07/07/25 11:21	
Thallium	mg/L	<0.0010	0.0010	07/07/25 11:21	

LABORATORY CONTROL SAMPLE: 3723778

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.04	0.041	101	85-115	
Arsenic	mg/L	0.04	0.040	101	85-115	
Barium	mg/L	0.04	0.040	101	85-115	
Beryllium	mg/L	0.04	0.043	106	85-115	
Cadmium	mg/L	0.04	0.041	103	85-115	
Chromium	mg/L	0.04	0.040	99	85-115	
Cobalt	mg/L	0.04	0.043	108	85-115	
Lead	mg/L	0.04	0.040	99	85-115	
Molybdenum	mg/L	0.04	0.040	101	85-115	
Selenium	mg/L	0.04	0.040	101	85-115	
Thallium	mg/L	0.04	0.039	96	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3723779 3723780

Parameter	Units	60477288001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	<0.0010	0.04	0.04	0.039	0.038	97	96	70-130	1	20	
Arsenic	mg/L	<0.0010	0.04	0.04	0.039	0.039	98	96	70-130	1	20	
Barium	mg/L	0.048	0.04	0.04	0.089	0.087	102	96	70-130	3	20	
Beryllium	mg/L	<0.00050	0.04	0.04	0.040	0.039	101	98	70-130	3	20	
Cadmium	mg/L	<0.00050	0.04	0.04	0.037	0.037	94	92	70-130	1	20	

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QUALITY CONTROL DATA

Project: TEC BASA
Pace Project No.: 60477289

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3723779 3723780

Parameter	Units	60477288001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chromium	mg/L	<0.0010	0.04	0.04	0.038	0.038	95	94	70-130	2	20	
Cobalt	mg/L	<0.0010	0.04	0.04	0.041	0.041	102	101	70-130	2	20	
Lead	mg/L	<0.0010	0.04	0.04	0.042	0.041	104	103	70-130	1	20	
Molybdenum	mg/L	<0.0010	0.04	0.04	0.043	0.043	106	105	70-130	1	20	
Selenium	mg/L	<0.0010	0.04	0.04	0.038	0.037	94	93	70-130	1	20	
Thallium	mg/L	<0.0010	0.04	0.04	0.042	0.041	105	104	70-130	1	20	

MATRIX SPIKE SAMPLE: 3723781

Parameter	Units	60477289006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	<0.0010	0.04	0.040	99	70-130	
Arsenic	mg/L	0.025	0.04	0.065	100	70-130	
Barium	mg/L	0.090	0.04	0.13	103	70-130	
Beryllium	mg/L	<0.00050	0.04	0.042	105	70-130	
Cadmium	mg/L	<0.00050	0.04	0.038	96	70-130	
Chromium	mg/L	0.0018	0.04	0.038	91	70-130	
Cobalt	mg/L	<0.0010	0.04	0.043	106	70-130	
Lead	mg/L	<0.0010	0.04	0.045	111	70-130	
Molybdenum	mg/L	0.066	0.04	0.11	112	70-130	
Selenium	mg/L	<0.0010	0.04	0.040	97	70-130	
Thallium	mg/L	<0.0010	0.04	0.044	111	70-130	

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QUALITY CONTROL DATA

Project: TEC BASA
Pace Project No.: 60477289

QC Batch: 939408
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60477289001, 60477289002, 60477289003, 60477289004, 60477289005, 60477289006, 60477289007

METHOD BLANK: 3724668 Matrix: Water
Associated Lab Samples: 60477289001, 60477289002, 60477289003, 60477289004, 60477289005, 60477289006, 60477289007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lithium	ug/L	<10.0	10.0	07/07/25 10:53	

LABORATORY CONTROL SAMPLE: 3724669

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lithium	ug/L	1000	1030	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3724670 3724671

Parameter	Units	60477512001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lithium	ug/L	0.14 mg/L	1000	1000	1140	1090	100	94	75-125	5	20	

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QUALITY CONTROL DATA

Project: TEC BASA
Pace Project No.: 60477289

QC Batch: 939430
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60477289008

METHOD BLANK: 3724734 Matrix: Water
Associated Lab Samples: 60477289008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lithium	ug/L	<10.0	10.0	07/08/25 20:58	

LABORATORY CONTROL SAMPLE: 3724735

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lithium	ug/L	1000	998	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3724736 3724737

Parameter	Units	60477289008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lithium	ug/L	31.1	1000	1000	1030	1030	100	100	75-125	0	20	

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QUALITY CONTROL DATA

Project: TEC BASA
Pace Project No.: 60477289

QC Batch: 941419
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: 60477289001, 60477289002, 60477289003, 60477289004, 60477289005, 60477289006, 60477289007, 60477289008

METHOD BLANK: 3732203 Matrix: Water
Associated Lab Samples: 60477289001, 60477289002, 60477289003, 60477289004, 60477289005, 60477289006, 60477289007, 60477289008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Fluoride	mg/L	<0.20	0.20	07/11/25 22:19	

LABORATORY CONTROL SAMPLE: 3732204

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Fluoride	mg/L	2.5	2.7	107	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3732205 3732206

Parameter	Units	60477289001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Fluoride	mg/L	<0.20	2.5	2.5	2.6	2.7	102	107	80-120	5	15	

MATRIX SPIKE SAMPLE: 3732207

Parameter	Units	60477778001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Fluoride	mg/L	ND	50000	55400	111	80-120	

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QUALIFIERS

Project: TEC BASA
Pace Project No.: 60477289

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

D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
H1	Analysis conducted outside the EPA method holding time.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: TEC BASA
Pace Project No.: 60477289

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60477289001	**MW-7-061325**	EPA 3010	939408	EPA 6010	939558
60477289002	**MW-8-061325**	EPA 3010	939408	EPA 6010	939558
60477289003	**MW-10-061225**	EPA 3010	939408	EPA 6010	939558
60477289004	**MW-11A-061225**	EPA 3010	939408	EPA 6010	939558
60477289005	**MW-12-061225**	EPA 3010	939408	EPA 6010	939558
60477289006	**MW-13-061225**	EPA 3010	939408	EPA 6010	939558
60477289007	**MW-14-061225**	EPA 3010	939408	EPA 6010	939558
60477289008	**TEC-BASA-DUP-061325**	EPA 3010	939430	EPA 6010	939458
60477289001	**MW-7-061325**	EPA 200.8	939223	EPA 200.8	939281
60477289002	**MW-8-061325**	EPA 200.8	939223	EPA 200.8	939281
60477289003	**MW-10-061225**	EPA 200.8	939223	EPA 200.8	939281
60477289004	**MW-11A-061225**	EPA 200.8	939223	EPA 200.8	939281
60477289005	**MW-12-061225**	EPA 200.8	939223	EPA 200.8	939281
60477289006	**MW-13-061225**	EPA 200.8	939223	EPA 200.8	939281
60477289007	**MW-14-061225**	EPA 200.8	939223	EPA 200.8	939281
60477289008	**TEC-BASA-DUP-061325**	EPA 200.8	939223	EPA 200.8	939281
60477289001	**MW-7-061325**	EPA 245.1	940116	EPA 245.1	940147
60477289002	**MW-8-061325**	EPA 245.1	940116	EPA 245.1	940147
60477289003	**MW-10-061225**	EPA 245.1	940116	EPA 245.1	940147
60477289004	**MW-11A-061225**	EPA 245.1	940116	EPA 245.1	940147
60477289005	**MW-12-061225**	EPA 245.1	940116	EPA 245.1	940147
60477289006	**MW-13-061225**	EPA 245.1	940116	EPA 245.1	940147
60477289007	**MW-14-061225**	EPA 245.1	940117	EPA 245.1	940148
60477289008	**TEC-BASA-DUP-061325**	EPA 245.1	940117	EPA 245.1	940148
60477289001	**MW-7-061325**	EPA 300.0	941419		
60477289002	**MW-8-061325**	EPA 300.0	941419		
60477289003	**MW-10-061225**	EPA 300.0	941419		
60477289004	**MW-11A-061225**	EPA 300.0	941419		
60477289005	**MW-12-061225**	EPA 300.0	941419		
60477289006	**MW-13-061225**	EPA 300.0	941419		
60477289007	**MW-14-061225**	EPA 300.0	941419		
60477289008	**TEC-BASA-DUP-061325**	EPA 300.0	941419		

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WO# : 60477289

60477289

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

Client Name: Evergy

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** 0.7 **Corr. Factor** +0.1 **Corrected** 0.8

Date and initials of person examining contents: PF 4/14

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: _____

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

60477289

Scan QR Code for instructions

Company Name:	Evergy Kansas Central, Inc.
Street Address:	818 S Kansas Avenue Topeka, KS 66612
Customer Project #:	
Project Name:	TEC BASA
Site Collection Info/Facility ID (as applicable):	

Contact/Report To:	Jake Humphrey
Phone #:	(913)634-0605
E-Mail:	jake.humphrey@evergy.com
Cc E-Mail:	skaney@haleyaldrich.com
Invoice To:	Tecumseh Center
Invoice E-Mail:	apinvoicing@evergy.com
Purchase Order # (if applicable):	WSTR-2000094802
Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [X] CT [ ] ET

County / State origin of sample(s): Kansas

Data Deliverables:
[ ] Level II [ ] Level III [ ] Level IV
[ ] EQUIS
[ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [ ] Yes [X] No

Rush (Pre-approval required):
[ ] Same Day [ ] 1 Day [ ] 2 Day [ ] 3 Day [ ] Other _____

DW PWSID # or WW Permit # as applicable: NA

Date Results Requested:

Field Filtered (if applicable): [ ] Yes [X] 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 **: 3 3

Identify Container Preservative Type***: 2 1

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	200.8/ 6010 /245.1 *see list	300.0 IC - F	Sample Comment
MW-7-061325	WT	Grab	-	-	6/13/2025	1005	2	-	-	X	X	
MW-8-061325	WT	Grab	-	-	6/13/2025	855	2	-	-	X	X	
MW-9-061325	NS	NS	-	-	NS	NS	NS	-	-	-	-	NS - No Sample; Insufficient Groundwater
MW-10-061225	WT	Grab	-	-	6/12/2025	1100	2	-	-	X	X	
MW-11A-061225	WT	Grab	-	-	6/12/2025	935	2	-	-	X	X	
MW-12-061225	WT	Grab	-	-	6/12/2025	1245	2	-	-	X	X	
MW-13-061225	WT	Grab	-	-	6/12/2025	1420	2	-	-	X	X	
MW-14-061225	WT	Grab	-	-	6/12/2025	1550	2	-	-	X	X	
TEC-BASA-DUP-061325	WT	Grab	-	-	6/13/2025	1005	2	-	-	X	X	

**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: Alice Spiller
AcctNum / Client ID:
Table #:
Profile / Template: 16502
Prelog / Bottle Ord. ID: EZ 3266656

Preservation non-conformance identified for sample.

Additional Instructions from Pace®:
**200.7 B,Ca, Mg / 6010 Li / 245.1 Hg
200.8 Sb,As,Ba,Be,Cd,Cr,Co,Pb,Mo,Se,Tl

Collected By:
(Printed Name): Jason R. Franks
Signature: Jason R. Franks

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)	On Ice:
			.7		

Relinquished by/Company: (Signature) Jason R. Franks / SCS	Date/Time: 06/13/2025 / 15:00	Received by/Company: (Signature) DF Pace	Date/Time: 6/13 1552	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 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 ©

DC#_Title: ENV-FRM-LENE-0001 v07_Sample Container Count
Effective Date: 7/12/2024

Client: Evergy-Haley & Aldrich Profile/EZ # EZ 326666561

Site: TEC BASA 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																																
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 Numb

WO#: 60477289

PM: AS Due Date: 07/09/25

CLIENT: Evergy_Haley

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

July 15, 2025

Jake Humphrey
Evergy, Inc.
818 S Kansas Avenue
Topeka, KS 66612

RE: Project: TEC BASA Perimeter Deep RAD
Pace Project No.: 60477290

Dear Jake Humphrey:

Enclosed are the analytical results for sample(s) received by the laboratory on June 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 - Greensburg

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

Sincerely,

Alice Spiller

Alice Spiller
alice.spiller@pacelabs.com
(913)599-5665
PM Lab Management

Enclosures

cc: Samantha Kaney, Haley & Aldrich
Melanie Satanek, Haley & Aldrich, Inc.
Adriana Sosa, Haley & Aldrich, Inc.
Nick Williams, Haley Aldrich

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CERTIFICATIONS

Project: TEC BASA Perimeter Deep RAD
Pace Project No.: 60477290

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

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SAMPLE SUMMARY

Project: TEC BASA Perimeter Deep RAD
Pace Project No.: 60477290

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60477290001	**MW-12D-061225**	Water	06/12/25 14:45	06/13/25 15:51
60477290002	**MW-20-061125**	Water	06/11/25 14:45	06/13/25 15:51
60477290003	**MW-21-061225**	Water	06/12/25 12:40	06/13/25 15:51
60477290004	**MW-22-061225**	Water	06/12/25 09:50	06/13/25 15:51

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SAMPLE ANALYTE COUNT

Project: TEC BASA Perimeter Deep RAD
Pace Project No.: 60477290

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60477290001	**MW-12D-061225**	EPA 903.1	TMY	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
60477290002	**MW-20-061125**	EPA 903.1	TMY	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
60477290003	**MW-21-061225**	EPA 903.1	TMY	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
60477290004	**MW-22-061225**	EPA 903.1	TMY	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

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PROJECT NARRATIVE

Project: TEC BASA Perimeter Deep RAD
Pace Project No.: 60477290

Method: **EPA 903.1**
Description: 903.1 Radium 226
Client: Evergy_Haley & Aldrich
Date: July 15, 2025

General Information:
4 samples were analyzed for EPA 903.1 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA Perimeter Deep RAD
Pace Project No.: 60477290

Method: **EPA 904.0**
Description: 904.0 Radium 228
Client: Evergy_Haley & Aldrich
Date: July 15, 2025

General Information:
4 samples were analyzed for EPA 904.0 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA Perimeter Deep RAD
Pace Project No.: 60477290

Method: **Total Radium Calculation**
Description: Total Radium 228+226
Client: Evergy_Haley & Aldrich
Date: July 15, 2025

General Information:
4 samples were analyzed for Total Radium Calculation by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: TEC BASA Perimeter Deep RAD
Pace Project No.: 60477290

Sample: MW-12D-061225 **Lab ID: 60477290001** Collected: 06/12/25 14:45 Received: 06/13/25 15:51 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	**4.65 ± 1.30 (1.34) C:NA T:96%**	pCi/L	07/11/25 13:33	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**9.18 ± 1.87 (0.830) C:71% T:92%**	pCi/L	07/11/25 11:31	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**13.8 ± 2.28 (1.34)**	pCi/L	07/14/25 15:52	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: TEC BASA Perimeter Deep RAD
Pace Project No.: 60477290

Sample: MW-20-061125 **Lab ID: 60477290002** Collected: 06/11/25 14:45 Received: 06/13/25 15:51 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	**5.20 ± 1.42 (1.37) C:NA T:90%**	pCi/L	07/11/25 13:33	13982-63-3	
		Pace Analytical Services - Greensburg				
Radium-228	EPA 904.0	**7.23 ± 1.51 (0.705) C:73% T:90%**	pCi/L	07/11/25 14:55	15262-20-1	
		Pace Analytical Services - Greensburg				
Total Radium	Total Radium Calculation	**12.4 ± 2.07 (1.37)**	pCi/L	07/14/25 15:52	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: TEC BASA Perimeter Deep RAD
Pace Project No.: 60477290

Sample: MW-21-061225 **Lab ID: 60477290003** Collected: 06/12/25 12:40 Received: 06/13/25 15:51 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	**6.84 ± 1.73 (1.74) C:NA T:90%**	pCi/L	07/11/25 13:48	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**10.4 ± 2.09 (0.711) C:74% T:85%**	pCi/L	07/11/25 14:56	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**17.2 ± 2.71 (1.74)**	pCi/L	07/14/25 15:52	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: TEC BASA Perimeter Deep RAD
Pace Project No.: 60477290

Sample: MW-22-061225 **Lab ID: 60477290004** Collected: 06/12/25 09:50 Received: 06/13/25 15:51 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	**5.46 ± 1.55 (1.50) C:NA T:92%**	pCi/L	07/11/25 13:48	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**7.36 ± 1.53 (0.693) C:78% T:87%**	pCi/L	07/11/25 14:56	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**12.8 ± 2.18 (1.50)**	pCi/L	07/14/25 15:52	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: TEC BASA Perimeter Deep RAD
Pace Project No.: 60477290

QC Batch: 754884
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: 60477290001, 60477290002, 60477290003, 60477290004

METHOD BLANK: 3678186 Matrix: Water
Associated Lab Samples: 60477290001, 60477290002, 60477290003, 60477290004

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.480 ± 0.334 (0.642) C:85% T:90%	pCi/L	07/11/25 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.

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QUALITY CONTROL - RADIOCHEMISTRY

Project: TEC BASA Perimeter Deep RAD
Pace Project No.: 60477290

QC Batch: 754883
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: 60477290001, 60477290002, 60477290003, 60477290004

METHOD BLANK: 3678185 Matrix: Water
Associated Lab Samples: 60477290001, 60477290002, 60477290003, 60477290004

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.245 ± 0.440 (0.770) C:NA T:96%	pCi/L	07/11/25 13:33	

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

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QUALIFIERS

Project: TEC BASA Perimeter Deep RAD
Pace Project No.: 60477290

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.

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Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: TEC BASA Perimeter Deep RAD
Pace Project No.: 60477290

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60477290001	**MW-12D-061225**	EPA 903.1	754883		
60477290002	**MW-20-061125**	EPA 903.1	754883		
60477290003	**MW-21-061225**	EPA 903.1	754883		
60477290004	**MW-22-061225**	EPA 903.1	754883		
60477290001	**MW-12D-061225**	EPA 904.0	754884		
60477290002	**MW-20-061125**	EPA 904.0	754884		
60477290003	**MW-21-061225**	EPA 904.0	754884		
60477290004	**MW-22-061225**	EPA 904.0	754884		
60477290001	**MW-12D-061225**	Total Radium Calculation	757933		
60477290002	**MW-20-061125**	Total Radium Calculation	757933		
60477290003	**MW-21-061225**	Total Radium Calculation	757933		
60477290004	**MW-22-061225**	Total Radium Calculation	757933		

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WO# : 60477290

60477290

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

Client Name: Evergy Kansas Central Inc.

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 ☑ ZPLC

Thermometer Used: T301 **Type of Ice:** Wet Blue None

Cooler Temperature (°C): **As-read** 24.2 **Corr. Factor** +0.1 **Corrected** 24.3

Date and initials of person examining contents: 6/14/25 SA

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? (HNO3, H2SO4, HCl<2; NaOH>9 Sulfide, NaOH>10 Cyanide) (Exceptions: VOA, Micro, O&G, KS TPH, OK-DRO) **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® 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

6047290

Scan QR Code for instructions

Company Name:	Evergy Kansas Central, Inc.	Contact/Report To:	Jake Humphrey
Street Address:	818 S Kansas Avenue Topeka, KS 66612	Phone #:	(913)634-0605
		E-Mail:	jake.humphrey@evergy.com
		Cc E-Mail:	skaney@haleyaldrich.com
Customer Project #:			
Project Name:	TEC BASA PERIMETER - DEEP RADCHEM	Invoice To:	Tecumseh Center
		Invoice E-Mail:	evergyap@onlinecapturecenter.com
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	WSTR-2000094802
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [X] CT [ ] ET

County / State origin of sample(s): Kansas

Data Deliverables:
[ ] Level II [ ] Level III [ ] Level IV
[ ] EQUIS
[ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [ ] Yes [X] No

Rush (Pre-approval required):
[ ] Same Day [ ] 1 Day [ ] 2 Day [ ] 3 Day [ ] Other _____

DW PWSID # or WW Permit # as applicable: NA

Date Results Requested:

Field Filtered (if applicable): [ ] Yes [X] 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
Identify Container Preservative Type***: 2 2
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: Alice Spiller
AcctNum / Client ID:
Table #:
Profile / Template: 16502
Prelog / Bottle Ord. ID: EZ 3266662

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	Radium 226	Radium 228+combined+QC Sheets	Sample Comment	Preservation non-conformance identified for sample.
MW-12D-061225	GW	Grab	-	-	6/12/2025	1445	2	-	-	X	X		
MW-20-061125	GW	Grab	-	-	6/11/2025	1445	2	-	-	X	X		
MW-21-061225	GW	Grab	-	-	6/12/2025	1240	2	-	-	X	X		
MW-22-061225	GW	Grab	-	-	6/12/2025	950	2	-	-	X	X		

Additional Instructions from Pace®:

Collected By: (Printed Name) Jason R. Franks
Signature: Jason R. Franks

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)	On Ice:
	T301	+0.1	24.2	24.3	

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
Jason R. Franks / SCS	06/13/2025 / 15:00	PACE	6/13/25 1551	
				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 ©

Internal Transfer Chain of Custody

☐ Rush Multiplier____X
☒ Samples Pre-Logged into eCOC

State Of Origin: KS
Cert. Needed: ☒ Yes ☐ No
Owner Received Date: 6/13/2025 Results Requested By: 7/15/2025

Workorder: 60477290 Workorder Name: TEC BASA Perimeter Deep RAD

Report To	Subcontract To
Alice Spiller Pace Analytical Kansas 9608 Loiret Blvd. Lenexa, KS 66219 Phone (913)599-5665	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	QC Sheets	Radium 226	Radium 228 and combined	LAB USE ONLY
1	MW-12D-061225	PS	6/12/2025 14:45	60477290001	Water	2	X	X	X	001
2	MW-20-061125	PS	6/11/2025 14:45	60477290002	Water	2	X	X	X	002
3	MW-21-061225	PS	6/12/2025 12:40	60477290003	Water	2	X	X	X	003
4	MW-22-061225	PS	6/12/2025 09:50	60477290004	Water	2	X	X	X	004
5										

Transfers	Released By	Date/Time	Received By	Date/Time
1			Matthew Smith	6/19/25 10:16
2				
3				

Comments: 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# : 30788710

30788710

DC#_Title: ENV-FRM-GBUR-0088 v07_Sample Condition Upon Receipt Greensburg

Effective Date: 01/04/2024

WO#: 30788710

PM: CMC Due Date: 07/18/25

CLIENT: PACE_60_LEKS

Client Name: Pace LKS

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other

Tracking Number: 4453 8933 1452

Initial / Date

Examined By: EPR 6/19/25

Labeled By: EPR 6/19/25

Temped By: EPR 6/19/25

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# 10243241 | 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	✓			PHLZ
All containers meet method preservation requirements:				Initial when completed EPR 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 EPR Date: 6/19/25 Survey Meter SN: 2301438

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

Quality Control Sample Performance Assessment

Pace Analytical
www.pacelabs.com

Test:	Ra-226
Analyst:	TMY
Date:	7/1/2025
Batch ID:	85906
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3678185
MB concentration:	0.245
M/B 2 Sigma CSU:	0.440
MB MDC:	0.770
MB Numerical Performance Indicator:	1.09
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	N/A

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS85906	**LCSD85906**
Count Date:	7/11/2025	7/11/2025
Spike I.D.:	24-046	24-046
Spike Concentration (pCi/mL):	31.829	31.829
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.651	0.653
Target Conc. (pCi/L, g, F):	4.887	4.875
Uncertainty (Calculated):	0.230	0.229
Result (pCi/L, g, F):	5.134	5.023
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	1.201	1.198
Numerical Performance Indicator:	0.40	0.24
Percent Recovery:	105.05%	103.04%
Status vs Numerical Indicator:	Pass	Pass
Status vs Recovery:	N/A	N/A
Upper % Recovery Limits:	133%	133%
Lower % Recovery Limits:	73%	73%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS85906	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD85906	
Sample Result (pCi/L, g, F):	5.134	
Sample Result 2 Sigma CSU (pCi/L, g, F):	1.201	
Sample Duplicate Result (pCi/L, g, F):	5.023	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.198	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	0.128	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	1.93%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	N/A	
% RPD Limit:	32%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the RL.

Comments:

W071125

TY 7-11-25

Quality Control Sample Performance Assessment

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test:	Ra-228
Analyst:	VAL
Date:	7/8/2025
Worklist:	85907
Matrix:	WT

Method Blank Assessment	
MB Sample ID	3678186
MB concentration:	0.480
M/B 2 Sigma CSU:	0.334
MB MDC:	0.642
MB Numerical Performance Indicator:	2.82
MB Status vs Numerical Indicator:	Warning
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS85907	LCSD85907
Count Date:	7/11/2025	7/11/2025
Spike I.D.:	23-043	23-043
Decay Corrected Spike Concentration (pCi/mL):	31.967	31.967
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.820	0.816
Target Conc. (pCi/L, g, F):	3.898	3.917
Uncertainty (Calculated):	0.191	0.192
Result (pCi/L, g, F):	4.037	4.535
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.997	1.033
Numerical Performance Indicator:	0.27	1.15
Percent Recovery:	103.58%	115.80%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS85907	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD85907	
Sample Result (pCi/L, g, F):	4.037	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.997	
Sample Duplicate Result (pCi/L, g, F):	4.535	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.033	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	-0.680	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	11.13%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	36%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

VAL
7/15/25

7/14/25

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

August 11, 2025

Jake Humphrey
Evergy, Inc.
818 S Kansas Avenue
Topeka, KS 66612

RE: Project: TEC BASA Perimeter Shallow-Revised Report
Pace Project No.: 60477292

Dear Jake Humphrey:

Enclosed are the analytical results for sample(s) received by the laboratory on June 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 - Indianapolis
- Pace Analytical Services - Kansas City

REVISED to report to the MDL per client request.

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

Sincerely,

Alice Spiller

Alice Spiller
alice.spiller@pacelabs.com
(913)599-5665
PM Lab Management

Enclosures

cc: Samantha Kaney, Haley & Aldrich
Melanie Satanek, Haley & Aldrich, Inc.
Adriana Sosa, Haley & Aldrich, Inc.
Nick Williams, Haley Aldrich

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CERTIFICATIONS

Project: TEC BASA Perimeter Shallow-Revised Report
Pace Project No.: 60477292

Pace Analytical Services Indianapolis

7726 Moller Road, Indianapolis, IN 46268
Illinois Accreditation #: 200074
Indiana Drinking Water Laboratory #: C-49-06
Kansas/TNI Certification #: E-10177
Kentucky UST Agency Interest #: 80226
Kentucky WW Laboratory ID #: 98019
Louisiana Certification #: 04076
Michigan Drinking Water Laboratory #9050
Oklahoma Laboratory #: 9204
Texas Certification #: T104704355
Washington Dept of Ecology #: C1081
Wisconsin Laboratory #: 999788130
USDA Foreign Soil Permit #: 525-23-13-23119
USDA Compliance Agreement #: IN-SL-22-001

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

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SAMPLE SUMMARY

Project: TEC BASA Perimeter Shallow-Revised Report
Pace Project No.: 60477292

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60477292001	**MW-15-061225**	Water	06/12/25 13:40	06/13/25 15:51
60477292002	**MW-16-061225**	Water	06/12/25 11:45	06/13/25 15:51
60477292003	**MW-17-061225**	Water	06/12/25 10:50	06/13/25 15:51
60477292004	**MW-18-061125**	Water	06/11/25 13:35	06/13/25 15:51
60477292005	**MW-19-061125**	Water	06/11/25 12:05	06/13/25 15:51
60477292006	**TEC-BASA-PERIMETER-DUP-061125**	Water	06/11/25 12:05	06/13/25 15:51

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SAMPLE ANALYTE COUNT

Project: TEC BASA Perimeter Shallow-Revised Report
Pace Project No.: 60477292

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60477292001	**MW-15-061225**	EPA 200.7	ARMN	6	PASI-K
		EPA 200.7	ARMN	1	PASI-K
		EPA 6010	ARMN	1	PASI-K
		EPA 200.8	JGP	7	PASI-K
		EPA 200.8	JGP	5	PASI-K
		SM 2320B	EFM	3	PASI-K
		SM 2540C	CAR	1	PASI-K
		SM 3500-Fe B#4	DLJ	1	PASI-K
		SM 4500-H+B	EFM	1	PASI-K
		SM 4500-S-2 D	DLJ	1	PASI-K
		EPA 300.0	MLD	2	PASI-K
		EPA 300.0	MLD	3	PASI-K
		EPA 350.1	STS	1	PASI-I
		EPA 365.1	JTR	1	PASI-I
		SM 5310C	EFM	1	PASI-K
		SM 5310C	EFM	1	PASI-K
60477292002	**MW-16-061225**	EPA 200.7	ARMN	6	PASI-K
		EPA 200.7	ARMN	1	PASI-K
		EPA 6010	ARMN	1	PASI-K
		EPA 200.8	JGP	7	PASI-K
		EPA 200.8	JGP	5	PASI-K
		SM 2320B	EFM	3	PASI-K
		SM 2540C	CAR	1	PASI-K
		SM 3500-Fe B#4	DLJ	1	PASI-K
		SM 4500-H+B	EFM	1	PASI-K
		SM 4500-S-2 D	DLJ	1	PASI-K
		EPA 300.0	MLD	2	PASI-K
		EPA 300.0	MLD	3	PASI-K
		EPA 350.1	STS	1	PASI-I
		EPA 365.1	JTR	1	PASI-I
		SM 5310C	EFM	1	PASI-K
		SM 5310C	EFM	1	PASI-K
60477292003	**MW-17-061225**	EPA 200.7	ARMN	6	PASI-K
		EPA 200.7	ARMN	1	PASI-K
		EPA 6010	ARMN	1	PASI-K
		EPA 200.8	JGP	7	PASI-K
		EPA 200.8	JGP	5	PASI-K

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: TEC BASA Perimeter Shallow-Revised Report
Pace Project No.: 60477292

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 2320B	EFM	3	PASI-K
		SM 2540C	CAR	1	PASI-K
		SM 3500-Fe B#4	DLJ	1	PASI-K
		SM 4500-H+B	EFM	1	PASI-K
		SM 4500-S-2 D	DLJ	1	PASI-K
		EPA 300.0	MLD	2	PASI-K
		EPA 300.0	MLD	3	PASI-K
		EPA 350.1	STS	1	PASI-I
		EPA 365.1	JTR	1	PASI-I
		SM 5310C	EFM	1	PASI-K
		SM 5310C	EFM	1	PASI-K
60477292004	**MW-18-061125**	EPA 200.7	ARMN	6	PASI-K
		EPA 200.7	ARMN	1	PASI-K
		EPA 6010	ARMN	1	PASI-K
		EPA 200.8	JGP	7	PASI-K
		EPA 200.8	JGP	5	PASI-K
		SM 2320B	EFM	3	PASI-K
		SM 2540C	CAR	1	PASI-K
		SM 3500-Fe B#4	DLJ	1	PASI-K
		SM 4500-H+B	EFM	1	PASI-K
		SM 4500-S-2 D	DLJ	1	PASI-K
		EPA 300.0	MLD	2	PASI-K
		EPA 300.0	MLD	3	PASI-K
		EPA 350.1	STS	1	PASI-I
		EPA 365.1	JTR	1	PASI-I
		SM 5310C	EFM	1	PASI-K
		SM 5310C	EFM	1	PASI-K
60477292005	**MW-19-061125**	EPA 200.7	ARMN	6	PASI-K
		EPA 200.7	ARMN	1	PASI-K
		EPA 6010	ARMN	1	PASI-K
		EPA 200.8	JGP	7	PASI-K
		EPA 200.8	JGP	5	PASI-K
		SM 2320B	EFM	3	PASI-K
		SM 2540C	CAR	1	PASI-K
		SM 3500-Fe B#4	DLJ	1	PASI-K
		SM 4500-H+B	EFM	1	PASI-K
		SM 4500-S-2 D	DLJ	1	PASI-K

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: TEC BASA Perimeter Shallow-Revised Report
Pace Project No.: 60477292

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 300.0	MLD	2	PASI-K
		EPA 300.0	MLD	3	PASI-K
		EPA 350.1	STS	1	PASI-I
		EPA 365.1	JTR	1	PASI-I
		SM 5310C	EFM	1	PASI-K
		SM 5310C	EFM	1	PASI-K
60477292006	**TEC-BASA-PERIMETER-DUP-061125**	EPA 200.7	ARMN	6	PASI-K
		EPA 200.7	ARMN	1	PASI-K
		EPA 6010	ARMN	1	PASI-K
		EPA 200.8	JGP	7	PASI-K
		EPA 200.8	JGP	5	PASI-K
		SM 2320B	EFM	3	PASI-K
		SM 2540C	CAR	1	PASI-K
		SM 3500-Fe B#4	DLJ	1	PASI-K
		SM 4500-H+B	EFM	1	PASI-K
		SM 4500-S-2 D	DLJ	1	PASI-K
		EPA 300.0	MLD	2	PASI-K
		EPA 300.0	MLD	3	PASI-K
		EPA 350.1	STS	1	PASI-I
		EPA 365.1	JTR	1	PASI-I
		SM 5310C	EFM	1	PASI-K
		SM 5310C	EFM	1	PASI-K

PASI-I = Pace Analytical Services - Indianapolis
PASI-K = Pace Analytical Services - Kansas City

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: TEC BASA Perimeter Shallow-Revised Report
Pace Project No.: 60477292

Method: **EPA 200.7**
Description: 200.7 Metals, Total
Client: Evergy_Haley & Aldrich
Date: August 11, 2025

General Information:
6 samples were analyzed for EPA 200.7 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 200.7 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 938598

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60477285002,60477292002

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 3721421)
  - Calcium
  - Sodium
- MS (Lab ID: 3721423)
  - Calcium
  - Magnesium
  - Sodium

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: TEC BASA Perimeter Shallow-Revised Report
Pace Project No.: 60477292

Method: **EPA 200.7**
Description: 200.7 Metals, Dissolved
Client: Evergy_Haley & Aldrich
Date: August 11, 2025

General Information:
6 samples were analyzed for EPA 200.7 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 200.7 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA Perimeter Shallow-Revised Report
Pace Project No.: 60477292

Method: **EPA 6010**
Description: 6010 MET ICP
Client: Evergy_Haley & Aldrich
Date: August 11, 2025

General Information:
6 samples were analyzed for EPA 6010 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA Perimeter Shallow-Revised Report
Pace Project No.: 60477292

Method: **EPA 200.8**
Description: 200.8 MET ICPMS
Client: Evergy_Haley & Aldrich
Date: August 11, 2025

General Information:
6 samples were analyzed for EPA 200.8 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 200.8 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 938597

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60477285001,60477292003

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 3721418)
  - Manganese

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: TEC BASA Perimeter Shallow-Revised Report
Pace Project No.: 60477292

Method: **EPA 200.8**
Description: 200.8 MET ICPMS, Dissolved
Client: Evergy_Haley & Aldrich
Date: August 11, 2025

General Information:
6 samples were analyzed for EPA 200.8 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 200.8 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA Perimeter Shallow-Revised Report
Pace Project No.: 60477292

Method: **SM 2320B**
Description: 2320B Alkalinity
Client: Evergy_Haley & Aldrich
Date: August 11, 2025

General Information:
6 samples were analyzed for SM 2320B by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA Perimeter Shallow-Revised Report
Pace Project No.: 60477292

Method: **SM 2540C**
Description: 2540C Total Dissolved Solids
Client: Evergy_Haley & Aldrich
Date: August 11, 2025

General Information:
6 samples were analyzed for SM 2540C by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA Perimeter Shallow-Revised Report
Pace Project No.: 60477292

Method: **SM 3500-Fe B#4**
Description: Iron, Ferrous
Client: Evergy_Haley & Aldrich
Date: August 11, 2025

General Information:
6 samples were analyzed for SM 3500-Fe B#4 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

H6: Analysis initiated outside of the 15 minute EPA required holding time.
- MW-15-061225 (Lab ID: 60477292001)
- MW-16-061225 (Lab ID: 60477292002)
- MW-17-061225 (Lab ID: 60477292003)
- MW-18-061125 (Lab ID: 60477292004)
- MW-19-061125 (Lab ID: 60477292005)
- TEC-BASA-PERIMETER-DUP-061125 (Lab ID: 60477292006)

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA Perimeter Shallow-Revised Report
Pace Project No.: 60477292

Method: **SM 4500-H+B**
Description: 4500H+ pH, Electrometric
Client: Evergy_Haley & Aldrich
Date: August 11, 2025

General Information:
6 samples were analyzed for SM 4500-H+B by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

H3: Sample was received or analysis requested beyond the recognized method holding time.
- MW-15-061225 (Lab ID: 60477292001)
- MW-16-061225 (Lab ID: 60477292002)
- MW-17-061225 (Lab ID: 60477292003)
- MW-18-061125 (Lab ID: 60477292004)
- MW-19-061125 (Lab ID: 60477292005)
- TEC-BASA-PERIMETER-DUP-061125 (Lab ID: 60477292006)

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA Perimeter Shallow-Revised Report
Pace Project No.: 60477292

Method: **SM 4500-S-2 D**
Description: 4500S2D Sulfide, Total
Client: Evergy_Haley & Aldrich
Date: August 11, 2025

General Information:
6 samples were analyzed for SM 4500-S-2 D by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 938793

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60477292004

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 3722007)
  - Sulfide, Total
- MSD (Lab ID: 3722008)
  - Sulfide, Total

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA Perimeter Shallow-Revised Report
Pace Project No.: 60477292

Method: **EPA 300.0**
Description: 300.0 IC Anions
Client: Evergy_Haley & Aldrich
Date: August 11, 2025

General Information:
6 samples were analyzed for EPA 300.0 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

H3: Sample was received or analysis requested beyond the recognized method holding time.
- MW-18-061125 (Lab ID: 60477292004)
- MW-19-061125 (Lab ID: 60477292005)
- TEC-BASA-PERIMETER-DUP-061125 (Lab ID: 60477292006)

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 938578

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60477285002,60477292001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
- MS (Lab ID: 3721326)
  - Nitrate as N
  - Nitrite as N
- MS (Lab ID: 3721327)
  - Nitrate as N
- MSD (Lab ID: 3721328)
  - Nitrate as N

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA Perimeter Shallow-Revised Report
Pace Project No.: 60477292

Method: **EPA 300.0**
Description: 300.0 IC Anions 28 Days
Client: Evergy_Haley & Aldrich
Date: August 11, 2025

General Information:
6 samples were analyzed for EPA 300.0 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 940067

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60476421003,60477285007

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 3727000)
  - Fluoride
  - Sulfate
- MS (Lab ID: 3727002)
  - Chloride
  - Sulfate
- MSD (Lab ID: 3727001)
  - Chloride
  - Fluoride
  - Sulfate

QC Batch: 940891

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60477285003

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MSD (Lab ID: 3730231)
  - Chloride

Additional Comments:

Analyte Comments:

QC Batch: 940067

E: Analyte concentration exceeded the calibration range. The reported result is estimated.

- MS (Lab ID: 3727002)
  - Sulfate

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PROJECT NARRATIVE

Project: TEC BASA Perimeter Shallow-Revised Report
Pace Project No.: 60477292

Method: **EPA 350.1**
Description: 350.1 Ammonia
Client: Evergy_Haley & Aldrich
Date: August 11, 2025

General Information:
6 samples were analyzed for EPA 350.1 by Pace Analytical Services Indianapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA Perimeter Shallow-Revised Report
Pace Project No.: 60477292

Method: **EPA 365.1**
Description: 365.1 Total Phosphorus
Client: Evergy_Haley & Aldrich
Date: August 11, 2025

General Information:
6 samples were analyzed for EPA 365.1 by Pace Analytical Services Indianapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 365.1 with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

QC Batch: 851507

B: Analyte was detected in the associated method blank.
- BLANK for HBN 851507 [WETA/828 (Lab ID: 3900332)
  - Phosphorus

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA Perimeter Shallow-Revised Report
Pace Project No.: 60477292

Method: **SM 5310C**
Description: 5310C TOC
Client: Evergy_Haley & Aldrich
Date: August 11, 2025

General Information:
6 samples were analyzed for SM 5310C by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA Perimeter Shallow-Revised Report
Pace Project No.: 60477292

Method: **SM 5310C**
Description: 5310C Dissolved Organic Carbon
Client: Evergy_Haley & Aldrich
Date: August 11, 2025

General Information:
6 samples were analyzed for SM 5310C by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: 940422

D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

- DUP (Lab ID: 3728475)
  - Dissolved Organic Carbon
- MW-16-061225 (Lab ID: 60477292002)
  - Dissolved Organic Carbon

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: TEC BASA Perimeter Shallow-Revised Report
Pace Project No.: 60477292

Sample: MW-15-061225 **Lab ID: 60477292001** Collected: 06/12/25 13:40 Received: 06/13/25 15:51 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								
Boron, Total Recoverable	**0.11**	mg/L	0.10	0.033	1	06/16/25 09:05	07/02/25 13:15	7440-42-8	
Calcium, Total Recoverable	**223**	mg/L	0.20	0.045	1	06/16/25 09:05	07/02/25 13:15	7440-70-2	
Magnesium, Total Recoverable	**29.5**	mg/L	0.050	0.021	1	06/16/25 09:05	07/02/25 13:15	7439-95-4	
Potassium, Total Recoverable	**4.8**	mg/L	0.50	0.045	1	06/16/25 09:05	07/02/25 13:15	7440-09-7	
Sodium, Total Recoverable	**63.2**	mg/L	0.50	0.032	1	06/16/25 09:05	07/02/25 13:15	7440-23-5	
Total Hardness by 2340B, Total Recoverable	**679**	mg/L	0.50	0.20	1	06/16/25 09:05	07/02/25 13:15		
200.7 Metals, Dissolved	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City								
Magnesium, Dissolved	**32.3**	mg/L	0.050	0.021	1	06/16/25 09:05	07/01/25 17:26	7439-95-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Kansas City								
Lithium, Total Recoverable	**33.7**	ug/L	10.0	1.8	1	06/18/25 09:34	07/01/25 18:18	7439-93-2	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Aluminum, Total Recoverable	**0.22**	mg/L	0.050	0.0082	1	06/16/25 09:05	06/25/25 16:31	7429-90-5	
Arsenic, Total Recoverable	**0.0017**	mg/L	0.0010	0.00013	1	06/16/25 09:05	06/25/25 16:31	7440-38-2	
Barium, Total Recoverable	**0.093**	mg/L	0.0010	0.00021	1	06/16/25 09:05	06/25/25 16:31	7440-39-3	
Cobalt, Total Recoverable	**0.0011**	mg/L	0.0010	0.00010	1	06/16/25 09:05	06/25/25 16:31	7440-48-4	
Iron, Total Recoverable	**0.87**	mg/L	0.050	0.0044	1	06/16/25 09:05	06/25/25 16:31	7439-89-6	
Manganese, Total Recoverable	**0.33**	mg/L	0.0010	0.00052	1	06/16/25 09:05	06/25/25 16:31	7439-96-5	
Molybdenum, Total Recoverable	**0.0016**	mg/L	0.0010	0.00016	1	06/16/25 09:05	06/25/25 16:31	7439-98-7	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Aluminum, Dissolved	**<0.0082**	mg/L	0.050	0.0082	1	06/16/25 09:05	06/25/25 15:28	7429-90-5	
Arsenic, Dissolved	**0.0012**	mg/L	0.0010	0.00013	1	06/16/25 09:05	06/25/25 15:28	7440-38-2	
Cobalt, Dissolved	**0.0011**	mg/L	0.0010	0.00010	1	06/16/25 09:05	06/25/25 15:28	7440-48-4	
Iron, Dissolved	**0.18**	mg/L	0.050	0.0044	1	06/16/25 09:05	06/25/25 15:28	7439-89-6	
Manganese, Dissolved	**0.33**	mg/L	0.0010	0.00052	1	06/16/25 09:05	06/25/25 15:28	7439-96-5	
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Kansas City								
Alkalinity,Bicarbonate (CaCO3)	**567**	mg/L	20.0	10.5	1		06/16/25 18:39		
Alkalinity,Carbonate (CaCO3)	**<10.5**	mg/L	20.0	10.5	1		06/16/25 18:39		
Alkalinity, Total as CaCO3	**567**	mg/L	20.0	10.5	1		06/16/25 18:39		
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City								
Total Dissolved Solids	**1030**	mg/L	20.0	20.0	1		06/16/25 17:06		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TEC BASA Perimeter Shallow-Revised Report
Pace Project No.: 60477292

Sample: MW-15-061225 **Lab ID: 60477292001** Collected: 06/12/25 13:40 Received: 06/13/25 15:51 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Iron, Ferrous	Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City								
Iron, Ferrous	**0.68**	mg/L	0.20	0.041	1		06/19/25 15:15	15438-31-0	H6
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Kansas City								
pH at 25 Degrees C	**6.8**	Std. Units	0.10	0.10	1		06/16/25 18:32		H3
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D Pace Analytical Services - Kansas City								
Sulfide, Total	**0.061**	mg/L	0.050	0.016	1		06/17/25 13:46	18496-25-8	
300.0 IC Anions	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City								
Nitrate as N	**<0.055**	mg/L	0.10	0.055	1		06/14/25 12:05	14797-55-8	M1
Nitrite as N	**<0.035**	mg/L	0.10	0.035	1		06/14/25 12:05	14797-65-0	M1
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City								
Chloride	**277**	mg/L	20.0	10.5	20		07/04/25 04:59	16887-00-6	
Fluoride	**<0.12**	mg/L	0.20	0.12	1		07/04/25 04:47	16984-48-8	
Sulfate	**161**	mg/L	20.0	11.0	20		07/04/25 04:59	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1 Pace Analytical Services - Indianapolis								
Nitrogen, Ammonia	**<0.10**	mg/L	0.10	0.030	1		06/26/25 16:16	7664-41-7	
365.1 Total Phosphorus	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis								
Phosphorus	**0.055**	mg/L	0.050	0.044	1	06/30/25 10:00	07/02/25 12:25	7723-14-0	B
5310C TOC	Analytical Method: SM 5310C Pace Analytical Services - Kansas City								
Total Organic Carbon	**1.4**	mg/L	1.0	0.54	1		06/30/25 02:48	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C Pace Analytical Services - Kansas City								
Dissolved Organic Carbon	**1.6**	mg/L	1.0	0.54	1		06/23/25 16:04		

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ANALYTICAL RESULTS

Project: TEC BASA Perimeter Shallow-Revised Report
Pace Project No.: 60477292

Sample: MW-16-061225 **Lab ID: 60477292002** Collected: 06/12/25 11:45 Received: 06/13/25 15:51 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								
Boron, Total Recoverable	**0.53**	mg/L	0.10	0.033	1	06/16/25 09:05	07/02/25 13:17	7440-42-8	
Calcium, Total Recoverable	**210**	mg/L	0.20	0.045	1	06/16/25 09:05	07/02/25 13:17	7440-70-2	M1,P6
Magnesium, Total Recoverable	**28.6**	mg/L	0.050	0.021	1	06/16/25 09:05	07/02/25 13:17	7439-95-4	M1
Potassium, Total Recoverable	**2.1**	mg/L	0.50	0.045	1	06/16/25 09:05	07/02/25 13:17	7440-09-7	
Sodium, Total Recoverable	**171**	mg/L	0.50	0.032	1	06/16/25 09:05	07/02/25 13:17	7440-23-5	M1,P6
Total Hardness by 2340B, Total Recoverable	**643**	mg/L	0.50	0.20	1	06/16/25 09:05	07/02/25 13:17		
200.7 Metals, Dissolved	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City								
Magnesium, Dissolved	**30.0**	mg/L	0.050	0.021	1	06/16/25 09:05	07/01/25 17:27	7439-95-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Kansas City								
Lithium, Total Recoverable	**19.8**	ug/L	10.0	1.8	1	06/18/25 09:34	07/01/25 18:23	7439-93-2	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Aluminum, Total Recoverable	**0.33**	mg/L	0.050	0.0082	1	06/16/25 09:05	06/25/25 15:34	7429-90-5	
Arsenic, Total Recoverable	**0.019**	mg/L	0.0010	0.00013	1	06/16/25 09:05	06/25/25 15:34	7440-38-2	
Barium, Total Recoverable	**0.071**	mg/L	0.0010	0.00021	1	06/16/25 09:05	06/25/25 15:34	7440-39-3	
Cobalt, Total Recoverable	**0.0041**	mg/L	0.0010	0.00010	1	06/16/25 09:05	06/25/25 15:34	7440-48-4	
Iron, Total Recoverable	**7.2**	mg/L	0.050	0.0044	1	06/16/25 09:05	06/25/25 15:34	7439-89-6	
Manganese, Total Recoverable	**2.6**	mg/L	0.0010	0.00052	1	06/16/25 09:05	06/25/25 15:34	7439-96-5	
Molybdenum, Total Recoverable	**0.0045**	mg/L	0.0010	0.00016	1	06/16/25 09:05	06/25/25 15:34	7439-98-7	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Aluminum, Dissolved	**<0.0082**	mg/L	0.050	0.0082	1	06/16/25 09:05	06/25/25 16:36	7429-90-5	
Arsenic, Dissolved	**0.013**	mg/L	0.0010	0.00013	1	06/16/25 09:05	06/25/25 16:36	7440-38-2	
Cobalt, Dissolved	**0.0035**	mg/L	0.0010	0.00010	1	06/16/25 09:05	06/25/25 16:36	7440-48-4	
Iron, Dissolved	**5.2**	mg/L	0.050	0.0044	1	06/16/25 09:05	06/25/25 16:36	7439-89-6	
Manganese, Dissolved	**2.4**	mg/L	0.0010	0.00052	1	06/16/25 09:05	06/25/25 16:36	7439-96-5	
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Kansas City								
Alkalinity,Bicarbonate (CaCO3)	**526**	mg/L	20.0	10.5	1		06/16/25 18:46		
Alkalinity,Carbonate (CaCO3)	**<10.5**	mg/L	20.0	10.5	1		06/16/25 18:46		
Alkalinity, Total as CaCO3	**526**	mg/L	20.0	10.5	1		06/16/25 18:46		
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City								
Total Dissolved Solids	**1210**	mg/L	40.0	40.0	1		06/16/25 17:07		

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ANALYTICAL RESULTS

Project: TEC BASA Perimeter Shallow-Revised Report
Pace Project No.: 60477292

Sample: MW-16-061225 **Lab ID: 60477292002** Collected: 06/12/25 11:45 Received: 06/13/25 15:51 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Iron, Ferrous	Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City								
Iron, Ferrous	**8.0**	mg/L	0.40	0.082	1		06/19/25 15:15	15438-31-0	H6
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Kansas City								
pH at 25 Degrees C	**7.1**	Std. Units	0.10	0.10	1		06/16/25 18:32		H3
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		06/17/25 13:46	18496-25-8	
300.0 IC Anions	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City								
Nitrate as N	**<0.055**	mg/L	0.10	0.055	1		06/14/25 11:05	14797-55-8	
Nitrite as N	**<0.035**	mg/L	0.10	0.035	1		06/14/25 11:05	14797-65-0	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City								
Chloride	**168**	mg/L	50.0	26.4	50		07/08/25 15:15	16887-00-6	
Fluoride	**<0.12**	mg/L	0.20	0.12	1		07/08/25 15:04	16984-48-8	
Sulfate	**248**	mg/L	50.0	27.5	50		07/08/25 15:15	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1 Pace Analytical Services - Indianapolis								
Nitrogen, Ammonia	**0.72**	mg/L	0.10	0.030	1		06/26/25 16:11	7664-41-7	
365.1 Total Phosphorus	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis								
Phosphorus	**0.49**	mg/L	0.050	0.044	1	06/30/25 10:00	07/02/25 12:24	7723-14-0	B
5310C TOC	Analytical Method: SM 5310C Pace Analytical Services - Kansas City								
Total Organic Carbon	**5.4**	mg/L	5.0	2.7	5		06/30/25 03:03	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C Pace Analytical Services - Kansas City								
Dissolved Organic Carbon	**5.3**	mg/L	5.0	2.7	5		07/01/25 18:38		A,D3

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Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: TEC BASA Perimeter Shallow-Revised Report
Pace Project No.: 60477292

Sample: MW-17-061225 **Lab ID: 60477292003** Collected: 06/12/25 10:50 Received: 06/13/25 15:51 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								
Boron, Total Recoverable	**0.50**	mg/L	0.10	0.033	1	06/16/25 09:05	07/02/25 13:20	7440-42-8	
Calcium, Total Recoverable	**165**	mg/L	0.20	0.045	1	06/16/25 09:05	07/02/25 13:20	7440-70-2	
Magnesium, Total Recoverable	**22.7**	mg/L	0.050	0.021	1	06/16/25 09:05	07/02/25 13:20	7439-95-4	
Potassium, Total Recoverable	**6.2**	mg/L	0.50	0.045	1	06/16/25 09:05	07/02/25 13:20	7440-09-7	
Sodium, Total Recoverable	**94.3**	mg/L	0.50	0.032	1	06/16/25 09:05	07/02/25 13:20	7440-23-5	
Total Hardness by 2340B, Total Recoverable	**505**	mg/L	0.50	0.20	1	06/16/25 09:05	07/02/25 13:20		
200.7 Metals, Dissolved	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City								
Magnesium, Dissolved	**23.1**	mg/L	0.050	0.021	1	06/16/25 09:05	07/01/25 17:31	7439-95-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Kansas City								
Lithium, Total Recoverable	**30.9**	ug/L	10.0	1.8	1	06/18/25 09:34	07/01/25 18:25	7439-93-2	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Aluminum, Total Recoverable	**0.57**	mg/L	0.050	0.0082	1	06/16/25 09:05	06/25/25 15:36	7429-90-5	
Arsenic, Total Recoverable	**0.0012**	mg/L	0.0010	0.00013	1	06/16/25 09:05	06/25/25 15:36	7440-38-2	
Barium, Total Recoverable	**0.092**	mg/L	0.0010	0.00021	1	06/16/25 09:05	06/25/25 15:36	7440-39-3	
Cobalt, Total Recoverable	**0.0019**	mg/L	0.0010	0.00010	1	06/16/25 09:05	06/25/25 15:36	7440-48-4	
Iron, Total Recoverable	**1.1**	mg/L	0.050	0.0044	1	06/16/25 09:05	06/25/25 15:36	7439-89-6	
Manganese, Total Recoverable	**1.5**	mg/L	0.0010	0.00052	1	06/16/25 09:05	06/25/25 15:36	7439-96-5	M1
Molybdenum, Total Recoverable	**0.0086**	mg/L	0.0010	0.00016	1	06/16/25 09:05	06/25/25 15:36	7439-98-7	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Aluminum, Dissolved	**<0.0082**	mg/L	0.050	0.0082	1	06/16/25 09:05	06/25/25 16:39	7429-90-5	
Arsenic, Dissolved	**0.00072J**	mg/L	0.0010	0.00013	1	06/16/25 09:05	06/25/25 16:39	7440-38-2	
Cobalt, Dissolved	**0.00023J**	mg/L	0.0010	0.00010	1	06/16/25 09:05	06/25/25 16:39	7440-48-4	
Iron, Dissolved	**<0.0044**	mg/L	0.050	0.0044	1	06/16/25 09:05	06/25/25 16:39	7439-89-6	
Manganese, Dissolved	**0.19**	mg/L	0.0010	0.00052	1	06/16/25 09:05	06/25/25 16:39	7439-96-5	
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Kansas City								
Alkalinity,Bicarbonate (CaCO3)	**385**	mg/L	20.0	10.5	1		06/16/25 18:52		
Alkalinity,Carbonate (CaCO3)	**<10.5**	mg/L	20.0	10.5	1		06/16/25 18:52		
Alkalinity, Total as CaCO3	**385**	mg/L	20.0	10.5	1		06/16/25 18:52		
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City								
Total Dissolved Solids	**873**	mg/L	13.3	13.3	1		06/16/25 17:07		

REPORT OF LABORATORY ANALYSIS

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(913)599-5665

ANALYTICAL RESULTS

Project: TEC BASA Perimeter Shallow-Revised Report
Pace Project No.: 60477292

Sample: MW-17-061225 **Lab ID: 60477292003** Collected: 06/12/25 10:50 Received: 06/13/25 15:51 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Iron, Ferrous	Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City								
Iron, Ferrous	**0.17J**	mg/L	0.20	0.041	1		06/19/25 15:15	15438-31-0	H6
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Kansas City								
pH at 25 Degrees C	**7.2**	Std. Units	0.10	0.10	1		06/16/25 18:32		H3
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D Pace Analytical Services - Kansas City								
Sulfide, Total	**0.031J**	mg/L	0.050	0.016	1		06/17/25 13:46	18496-25-8	
300.0 IC Anions	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City								
Nitrate as N	**1.3**	mg/L	0.10	0.055	1		06/14/25 10:41	14797-55-8	
Nitrite as N	**<0.035**	mg/L	0.10	0.035	1		06/14/25 10:41	14797-65-0	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City								
Chloride	**26.5**	mg/L	10.0	5.3	10		07/08/25 15:37	16887-00-6	
Fluoride	**<0.12**	mg/L	0.20	0.12	1		07/08/25 15:26	16984-48-8	
Sulfate	**272**	mg/L	50.0	27.5	50		07/08/25 15:48	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1 Pace Analytical Services - Indianapolis								
Nitrogen, Ammonia	**<0.10**	mg/L	0.10	0.030	1		06/26/25 16:08	7664-41-7	
365.1 Total Phosphorus	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis								
Phosphorus	**0.27**	mg/L	0.050	0.044	1	06/30/25 10:00	07/02/25 12:24	7723-14-0	B
5310C TOC	Analytical Method: SM 5310C Pace Analytical Services - Kansas City								
Total Organic Carbon	**2.4**	mg/L	1.0	0.54	1		06/30/25 03:48	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C Pace Analytical Services - Kansas City								
Dissolved Organic Carbon	**2.4**	mg/L	1.0	0.54	1		06/23/25 16:34		

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ANALYTICAL RESULTS

Project: TEC BASA Perimeter Shallow-Revised Report
Pace Project No.: 60477292

Sample: MW-18-061125 **Lab ID: 60477292004** Collected: 06/11/25 13:35 Received: 06/13/25 15:51 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								
Boron, Total Recoverable	**0.58**	mg/L	0.10	0.033	1	06/16/25 09:05	07/02/25 13:22	7440-42-8	
Calcium, Total Recoverable	**214**	mg/L	0.20	0.045	1	06/16/25 09:05	07/02/25 13:22	7440-70-2	
Magnesium, Total Recoverable	**22.1**	mg/L	0.050	0.021	1	06/16/25 09:05	07/02/25 13:22	7439-95-4	
Potassium, Total Recoverable	**18.2**	mg/L	0.50	0.045	1	06/16/25 09:05	07/02/25 13:22	7440-09-7	
Sodium, Total Recoverable	**116**	mg/L	0.50	0.032	1	06/16/25 09:05	07/02/25 13:22	7440-23-5	
Total Hardness by 2340B, Total Recoverable	**625**	mg/L	0.50	0.20	1	06/16/25 09:05	07/02/25 13:22		
200.7 Metals, Dissolved	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City								
Magnesium, Dissolved	**22.5**	mg/L	0.050	0.021	1	06/16/25 09:05	07/01/25 17:33	7439-95-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Kansas City								
Lithium, Total Recoverable	**37.8**	ug/L	10.0	1.8	1	06/18/25 09:34	07/01/25 18:27	7439-93-2	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Aluminum, Total Recoverable	**1.3**	mg/L	0.050	0.0082	1	06/16/25 09:05	06/25/25 15:45	7429-90-5	
Arsenic, Total Recoverable	**0.0030**	mg/L	0.0010	0.00013	1	06/16/25 09:05	06/25/25 15:45	7440-38-2	
Barium, Total Recoverable	**0.16**	mg/L	0.0010	0.00021	1	06/16/25 09:05	06/25/25 15:45	7440-39-3	
Cobalt, Total Recoverable	**0.0023**	mg/L	0.0010	0.00010	1	06/16/25 09:05	06/25/25 15:45	7440-48-4	
Iron, Total Recoverable	**2.7**	mg/L	0.050	0.0044	1	06/16/25 09:05	06/25/25 15:45	7439-89-6	
Manganese, Total Recoverable	**2.4**	mg/L	0.0010	0.00052	1	06/16/25 09:05	06/25/25 15:45	7439-96-5	
Molybdenum, Total Recoverable	**0.0084**	mg/L	0.0010	0.00016	1	06/16/25 09:05	06/25/25 15:45	7439-98-7	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Aluminum, Dissolved	**<0.0082**	mg/L	0.050	0.0082	1	06/16/25 09:05	06/25/25 16:47	7429-90-5	
Arsenic, Dissolved	**0.0014**	mg/L	0.0010	0.00013	1	06/16/25 09:05	06/25/25 16:47	7440-38-2	
Cobalt, Dissolved	**0.00097J**	mg/L	0.0010	0.00010	1	06/16/25 09:05	06/25/25 16:47	7440-48-4	
Iron, Dissolved	**0.23**	mg/L	0.050	0.0044	1	06/16/25 09:05	06/25/25 16:47	7439-89-6	
Manganese, Dissolved	**2.1**	mg/L	0.0010	0.00052	1	06/16/25 09:05	06/25/25 16:47	7439-96-5	
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Kansas City								
Alkalinity,Bicarbonate (CaCO3)	**497**	mg/L	20.0	10.5	1		06/16/25 16:25		
Alkalinity,Carbonate (CaCO3)	**<10.5**	mg/L	20.0	10.5	1		06/16/25 16:25		
Alkalinity, Total as CaCO3	**497**	mg/L	20.0	10.5	1		06/16/25 16:25		
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City								
Total Dissolved Solids	**1150**	mg/L	20.0	20.0	1		06/16/25 17:06		

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ANALYTICAL RESULTS

Project: TEC BASA Perimeter Shallow-Revised Report
Pace Project No.: 60477292

Sample: MW-18-061125 **Lab ID: 60477292004** Collected: 06/11/25 13:35 Received: 06/13/25 15:51 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Iron, Ferrous	Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City								
Iron, Ferrous	**0.79**	mg/L	0.20	0.041	1		06/19/25 15:15	15438-31-0	H6
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Kansas City								
pH at 25 Degrees C	**6.7**	Std. Units	0.10	0.10	1		06/16/25 18:31		H3
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D Pace Analytical Services - Kansas City								
Sulfide, Total	**0.061**	mg/L	0.050	0.016	1		06/17/25 13:46	18496-25-8	M1
300.0 IC Anions	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City								
Nitrate as N	**<0.055**	mg/L	0.10	0.055	1		06/14/25 15:28	14797-55-8	H3
Nitrite as N	**<0.035**	mg/L	0.10	0.035	1		06/14/25 15:28	14797-65-0	H3
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City								
Chloride	**93.3**	mg/L	50.0	26.4	50		07/08/25 16:32	16887-00-6	
Fluoride	**<0.12**	mg/L	0.20	0.12	1		07/08/25 16:21	16984-48-8	
Sulfate	**300**	mg/L	50.0	27.5	50		07/08/25 16:32	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1 Pace Analytical Services - Indianapolis								
Nitrogen, Ammonia	**0.41**	mg/L	0.10	0.030	1		06/26/25 16:06	7664-41-7	
365.1 Total Phosphorus	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis								
Phosphorus	**0.24**	mg/L	0.050	0.044	1	06/30/25 10:00	07/02/25 12:23	7723-14-0	B
5310C TOC	Analytical Method: SM 5310C Pace Analytical Services - Kansas City								
Total Organic Carbon	**1.7**	mg/L	1.0	0.54	1		06/30/25 01:03	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C Pace Analytical Services - Kansas City								
Dissolved Organic Carbon	**1.7**	mg/L	1.0	0.54	1		06/23/25 15:19		

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ANALYTICAL RESULTS

Project: TEC BASA Perimeter Shallow-Revised Report
Pace Project No.: 60477292

Sample: MW-19-061125 **Lab ID: 60477292005** Collected: 06/11/25 12:05 Received: 06/13/25 15:51 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								
Boron, Total Recoverable	**0.50**	mg/L	0.10	0.033	1	06/16/25 09:05	07/02/25 13:24	7440-42-8	
Calcium, Total Recoverable	**431**	mg/L	0.20	0.045	1	06/16/25 09:05	07/02/25 13:24	7440-70-2	
Magnesium, Total Recoverable	**68.2**	mg/L	0.050	0.021	1	06/16/25 09:05	07/02/25 13:24	7439-95-4	
Potassium, Total Recoverable	**12.0**	mg/L	0.50	0.045	1	06/16/25 09:05	07/02/25 13:24	7440-09-7	
Sodium, Total Recoverable	**126**	mg/L	0.50	0.032	1	06/16/25 09:05	07/02/25 13:24	7440-23-5	
Total Hardness by 2340B, Total Recoverable	**1360**	mg/L	0.50	0.20	1	06/16/25 09:05	07/02/25 13:24		
200.7 Metals, Dissolved	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City								
Magnesium, Dissolved	**64.1**	mg/L	0.050	0.021	1	06/16/25 09:05	07/01/25 17:35	7439-95-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Kansas City								
Lithium, Total Recoverable	**50.9**	ug/L	10.0	1.8	1	06/18/25 09:34	07/01/25 18:29	7439-93-2	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Aluminum, Total Recoverable	**19.5**	mg/L	0.050	0.0082	1	06/16/25 09:05	06/25/25 15:47	7429-90-5	
Arsenic, Total Recoverable	**0.027**	mg/L	0.0010	0.00013	1	06/16/25 09:05	06/25/25 15:47	7440-38-2	
Barium, Total Recoverable	**0.27**	mg/L	0.0010	0.00021	1	06/16/25 09:05	06/25/25 15:47	7440-39-3	
Cobalt, Total Recoverable	**0.028**	mg/L	0.0010	0.00010	1	06/16/25 09:05	06/25/25 15:47	7440-48-4	
Iron, Total Recoverable	**46.7**	mg/L	0.050	0.0044	1	06/16/25 09:05	06/25/25 15:47	7439-89-6	
Manganese, Total Recoverable	**4.1**	mg/L	0.0010	0.00052	1	06/16/25 09:05	06/25/25 15:47	7439-96-5	
Molybdenum, Total Recoverable	**0.0017**	mg/L	0.0010	0.00016	1	06/16/25 09:05	06/25/25 15:47	7439-98-7	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Aluminum, Dissolved	**<0.0082**	mg/L	0.050	0.0082	1	06/16/25 09:05	06/25/25 16:49	7429-90-5	
Arsenic, Dissolved	**0.011**	mg/L	0.0010	0.00013	1	06/16/25 09:05	06/25/25 16:49	7440-38-2	
Cobalt, Dissolved	**0.0094**	mg/L	0.0010	0.00010	1	06/16/25 09:05	06/25/25 16:49	7440-48-4	
Iron, Dissolved	**7.0**	mg/L	0.050	0.0044	1	06/16/25 09:05	06/25/25 16:49	7439-89-6	
Manganese, Dissolved	**3.2**	mg/L	0.0010	0.00052	1	06/16/25 09:05	06/25/25 16:49	7439-96-5	
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Kansas City								
Alkalinity,Bicarbonate (CaCO3)	**308**	mg/L	20.0	10.5	1		06/16/25 16:39		
Alkalinity,Carbonate (CaCO3)	**<10.5**	mg/L	20.0	10.5	1		06/16/25 16:39		
Alkalinity, Total as CaCO3	**308**	mg/L	20.0	10.5	1		06/16/25 16:39		
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City								
Total Dissolved Solids	**2350**	mg/L	66.7	66.7	1		06/16/25 17:06		

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ANALYTICAL RESULTS

Project: TEC BASA Perimeter Shallow-Revised Report
Pace Project No.: 60477292

Sample: MW-19-061125 **Lab ID: 60477292005** Collected: 06/11/25 12:05 Received: 06/13/25 15:51 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Iron, Ferrous	Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City								
Iron, Ferrous	**22.8**	mg/L	1.0	0.20	1		06/19/25 15:15	15438-31-0	H6
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Kansas City								
pH at 25 Degrees C	**6.4**	Std. Units	0.10	0.10	1		06/16/25 18:31		H3
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D Pace Analytical Services - Kansas City								
Sulfide, Total	**1.3**	mg/L	0.10	0.031	1		06/17/25 13:46	18496-25-8	
300.0 IC Anions	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City								
Nitrate as N	**<0.055**	mg/L	0.10	0.055	1		06/14/25 15:06	14797-55-8	H3
Nitrite as N	**<0.035**	mg/L	0.10	0.035	1		06/14/25 15:06	14797-65-0	H3
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City								
Chloride	**35.1**	mg/L	5.0	2.6	5		07/04/25 06:58	16887-00-6	
Fluoride	**<0.12**	mg/L	0.20	0.12	1		07/04/25 06:46	16984-48-8	
Sulfate	**3080**	mg/L	200	110	200		07/04/25 07:10	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1 Pace Analytical Services - Indianapolis								
Nitrogen, Ammonia	**0.78**	mg/L	0.10	0.030	1		06/26/25 16:00	7664-41-7	
365.1 Total Phosphorus	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis								
Phosphorus	**1.6**	mg/L	0.083	0.073	1	06/30/25 10:00	07/02/25 12:22	7723-14-0	B
5310C TOC	Analytical Method: SM 5310C Pace Analytical Services - Kansas City								
Total Organic Carbon	**2.7**	mg/L	1.0	0.54	1		06/30/25 00:33	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C Pace Analytical Services - Kansas City								
Dissolved Organic Carbon	**2.7**	mg/L	1.0	0.54	1		06/23/25 15:33		

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ANALYTICAL RESULTS

Project: TEC BASA Perimeter Shallow-Revised Report
Pace Project No.: 60477292

Sample: TEC-BASA-PERIMETER-DUP-061125 **Lab ID: 60477292006** Collected: 06/11/25 12:05 Received: 06/13/25 15:51 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								
Boron, Total Recoverable	**0.51**	mg/L	0.10	0.033	1	06/16/25 09:05	07/02/25 14:05	7440-42-8	
Calcium, Total Recoverable	**445**	mg/L	0.20	0.045	1	06/16/25 09:05	07/02/25 14:05	7440-70-2	
Magnesium, Total Recoverable	**71.2**	mg/L	0.050	0.021	1	06/16/25 09:05	07/02/25 14:05	7439-95-4	
Potassium, Total Recoverable	**12.6**	mg/L	0.50	0.045	1	06/16/25 09:05	07/02/25 14:05	7440-09-7	
Sodium, Total Recoverable	**128**	mg/L	0.50	0.032	1	06/16/25 09:05	07/02/25 14:05	7440-23-5	
Total Hardness by 2340B, Total Recoverable	**1400**	mg/L	0.50	0.20	1	06/16/25 09:05	07/02/25 14:05		
200.7 Metals, Dissolved	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City								
Magnesium, Dissolved	**62.0**	mg/L	0.050	0.021	1	06/16/25 09:05	07/01/25 16:51	7439-95-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Kansas City								
Lithium, Total Recoverable	**51.9**	ug/L	10.0	1.8	1	06/18/25 09:34	07/01/25 18:36	7439-93-2	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Aluminum, Total Recoverable	**19.9**	mg/L	0.050	0.0082	1	06/16/25 09:05	06/25/25 15:49	7429-90-5	
Arsenic, Total Recoverable	**0.028**	mg/L	0.0010	0.00013	1	06/16/25 09:05	06/25/25 15:49	7440-38-2	
Barium, Total Recoverable	**0.28**	mg/L	0.0010	0.00021	1	06/16/25 09:05	06/25/25 15:49	7440-39-3	
Cobalt, Total Recoverable	**0.029**	mg/L	0.0010	0.00010	1	06/16/25 09:05	06/25/25 15:49	7440-48-4	
Iron, Total Recoverable	**49.2**	mg/L	0.050	0.0044	1	06/16/25 09:05	06/25/25 15:49	7439-89-6	
Manganese, Total Recoverable	**4.1**	mg/L	0.0010	0.00052	1	06/16/25 09:05	06/25/25 15:49	7439-96-5	
Molybdenum, Total Recoverable	**0.0019**	mg/L	0.0010	0.00016	1	06/16/25 09:05	06/25/25 15:49	7439-98-7	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Aluminum, Dissolved	**<0.0082**	mg/L	0.050	0.0082	1	06/16/25 09:05	06/25/25 16:52	7429-90-5	
Arsenic, Dissolved	**0.011**	mg/L	0.0010	0.00013	1	06/16/25 09:05	06/25/25 16:52	7440-38-2	
Cobalt, Dissolved	**0.0096**	mg/L	0.0010	0.00010	1	06/16/25 09:05	06/25/25 16:52	7440-48-4	
Iron, Dissolved	**7.2**	mg/L	0.050	0.0044	1	06/16/25 09:05	06/25/25 16:52	7439-89-6	
Manganese, Dissolved	**3.3**	mg/L	0.0010	0.00052	1	06/16/25 09:05	06/25/25 16:52	7439-96-5	
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Kansas City								
Alkalinity,Bicarbonate (CaCO3)	**298**	mg/L	20.0	10.5	1		06/16/25 16:46		
Alkalinity,Carbonate (CaCO3)	**<10.5**	mg/L	20.0	10.5	1		06/16/25 16:46		
Alkalinity, Total as CaCO3	**298**	mg/L	20.0	10.5	1		06/16/25 16:46		
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City								
Total Dissolved Solids	**2350**	mg/L	66.7	66.7	1		06/16/25 17:06		

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ANALYTICAL RESULTS

Project: TEC BASA Perimeter Shallow-Revised Report
Pace Project No.: 60477292

Sample: TEC-BASA-PERIMETER-DUP-061125 **Lab ID: 60477292006** Collected: 06/11/25 12:05 Received: 06/13/25 15:51 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Iron, Ferrous	Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City								
Iron, Ferrous	**24.3**	mg/L	1.0	0.20	1		06/19/25 15:15	15438-31-0	H6
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Kansas City								
pH at 25 Degrees C	**6.4**	Std. Units	0.10	0.10	1		06/16/25 18:31		H3
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D Pace Analytical Services - Kansas City								
Sulfide, Total	**1.2**	mg/L	0.10	0.031	1		06/17/25 13:46	18496-25-8	
300.0 IC Anions	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City								
Nitrate as N	**<0.055**	mg/L	0.10	0.055	1		06/14/25 15:17	14797-55-8	H3
Nitrite as N	**<0.035**	mg/L	0.10	0.035	1		06/14/25 15:17	14797-65-0	H3
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City								
Chloride	**28.3**	mg/L	5.0	2.6	5		07/04/25 07:33	16887-00-6	
Fluoride	**<0.12**	mg/L	0.20	0.12	1		07/04/25 07:21	16984-48-8	
Sulfate	**2930**	mg/L	200	110	200		07/04/25 08:09	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1 Pace Analytical Services - Indianapolis								
Nitrogen, Ammonia	**0.79**	mg/L	0.10	0.030	1		06/26/25 16:03	7664-41-7	
365.1 Total Phosphorus	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis								
Phosphorus	**1.5**	mg/L	0.10	0.088	2	06/30/25 10:00	07/02/25 12:46	7723-14-0	B
5310C TOC	Analytical Method: SM 5310C Pace Analytical Services - Kansas City								
Total Organic Carbon	**2.7**	mg/L	1.0	0.54	1		06/30/25 01:17	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C Pace Analytical Services - Kansas City								
Dissolved Organic Carbon	**2.8**	mg/L	1.0	0.54	1		06/23/25 15:48		

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QUALITY CONTROL DATA

Project: TEC BASA Perimeter Shallow-Revised Report
Pace Project No.: 60477292

QC Batch: 938598
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: 60477292001, 60477292002, 60477292003, 60477292004, 60477292005, 60477292006

METHOD BLANK: 3721419 Matrix: Water
Associated Lab Samples: 60477292001, 60477292002, 60477292003, 60477292004, 60477292005, 60477292006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Boron	mg/L	<0.033	0.10	0.033	07/02/25 12:48	
Calcium	mg/L	<0.045	0.20	0.045	07/02/25 12:48	
Hardness, Total(SM 2340B)	mg/L	<0.20	0.50	0.20	07/02/25 12:48	
Magnesium	mg/L	<0.021	0.050	0.021	07/02/25 12:48	
Potassium	mg/L	<0.045	0.50	0.045	07/02/25 12:48	
Sodium	mg/L	<0.032	0.50	0.032	07/02/25 12:48	

LABORATORY CONTROL SAMPLE: 3721420

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	mg/L	1	0.90	90	85-115	
Calcium	mg/L	10	9.8	98	85-115	
Hardness, Total(SM 2340B)	mg/L	66.2	63.0	95	85-115	
Magnesium	mg/L	10	9.4	94	85-115	
Potassium	mg/L	10	9.5	95	85-115	
Sodium	mg/L	10	9.7	97	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3721421 3721422

Parameter	Units	60477285002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Boron	mg/L	1110 ug/L	1	1	2.1	2.0	103	93	70-130	5	20	
Calcium	mg/L	183	10	10	198	191	154	82	70-130	4	20	M1
Hardness, Total(SM 2340B)	mg/L	513	66.2	66.2	594	571	123	88	70-130	4	20	
Magnesium	mg/L	13.6	10	10	24.0	22.8	104	92	70-130	5	20	
Potassium	mg/L	11.7	10	10	22.3	21.6	107	100	70-130	3	20	
Sodium	mg/L	170	10	10	185	178	152	87	70-130	4	20	M1

MATRIX SPIKE SAMPLE: 3721423

Parameter	Units	60477292002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Boron	mg/L	0.53	1	1.4	85	70-130	
Calcium	mg/L	210	10	204	-63	70-130	M1
Hardness, Total(SM 2340B)	mg/L	643	66.2	655	18	70-130	
Magnesium	mg/L	28.6	10	35.3	67	70-130	M1
Potassium	mg/L	2.1	10	11.4	93	70-130	

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QUALITY CONTROL DATA

Project: TEC BASA Perimeter Shallow-Revised Report
Pace Project No.: 60477292

MATRIX SPIKE SAMPLE: 3721423

Parameter	Units	60477292002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sodium	mg/L	171	10	168	-39	70-130	M1

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QUALITY CONTROL DATA

Project: TEC BASA Perimeter Shallow-Revised Report
Pace Project No.: 60477292

QC Batch: 938600 | Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 | Analysis Description: 200.7 Metals, Dissolved
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60477292001, 60477292002, 60477292003, 60477292004, 60477292005, 60477292006

METHOD BLANK: 3721428 Matrix: Water
Associated Lab Samples: 60477292001, 60477292002, 60477292003, 60477292004, 60477292005, 60477292006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Magnesium, Dissolved	mg/L	<0.021	0.050	0.021	07/01/25 16:58	

LABORATORY CONTROL SAMPLE: 3721429

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Magnesium, Dissolved	mg/L	10	9.2	92	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3721430 3721431

Parameter	Units	60477285001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Magnesium, Dissolved	mg/L	22.5	10	10	31.7	32.8	92	104	70-130	4	20	

MATRIX SPIKE SAMPLE: 3721432

Parameter	Units	60477292002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Magnesium, Dissolved	mg/L	30.0	10	37.8	78	70-130	

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QUALITY CONTROL DATA

Project: TEC BASA Perimeter Shallow-Revised Report
Pace Project No.: 60477292

QC Batch: 938597
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: 60477292001, 60477292002, 60477292003, 60477292004, 60477292005, 60477292006

METHOD BLANK: 3721414 Matrix: Water
Associated Lab Samples: 60477292001, 60477292002, 60477292003, 60477292004, 60477292005, 60477292006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Aluminum	mg/L	<0.0082	0.050	0.0082	06/25/25 14:53	
Arsenic	mg/L	<0.00013	0.0010	0.00013	06/25/25 14:53	
Barium	mg/L	<0.00021	0.0010	0.00021	06/25/25 14:53	
Cobalt	mg/L	<0.00010	0.0010	0.00010	06/25/25 14:53	
Iron	mg/L	<0.0044	0.050	0.0044	06/25/25 14:53	
Manganese	mg/L	<0.00052	0.0010	0.00052	06/25/25 14:53	
Molybdenum	mg/L	<0.00016	0.0010	0.00016	06/25/25 14:53	

LABORATORY CONTROL SAMPLE: 3721415

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	mg/L	1	1.1	105	85-115	
Arsenic	mg/L	0.04	0.042	106	85-115	
Barium	mg/L	0.04	0.041	104	85-115	
Cobalt	mg/L	0.04	0.042	106	85-115	
Iron	mg/L	1	1.1	112	85-115	
Manganese	mg/L	0.04	0.042	105	85-115	
Molybdenum	mg/L	0.04	0.042	106	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3721416 3721417

Parameter	Units	60477285001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum	mg/L	0.071	1	1	1.1	1.1	105	105	70-130	0	20	
Arsenic	mg/L	0.00096J	0.04	0.04	0.042	0.042	103	104	70-130	0	20	
Barium	mg/L	63.3 ug/L	0.04	0.04	0.11	0.11	105	107	70-130	1	20	
Cobalt	mg/L	0.00090J	0.04	0.04	0.041	0.041	100	101	70-130	1	20	
Iron	mg/L	0.10	1	1	1.2	1.2	109	109	70-130	0	20	
Manganese	mg/L	0.28	0.04	0.04	0.32	0.33	115	124	70-130	1	20	
Molybdenum	mg/L	0.016	0.04	0.04	0.059	0.060	107	109	70-130	1	20	

MATRIX SPIKE SAMPLE: 3721418

Parameter	Units	60477292003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum	mg/L	0.57	1	1.6	102	70-130	
Arsenic	mg/L	0.0012	0.04	0.041	100	70-130	

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QUALITY CONTROL DATA

Project: TEC BASA Perimeter Shallow-Revised Report
Pace Project No.: 60477292

MATRIX SPIKE SAMPLE: 3721418

Parameter	Units	60477292003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Barium	mg/L	0.092	0.04	0.13	91	70-130	
Cobalt	mg/L	0.0019	0.04	0.040	96	70-130	
Iron	mg/L	1.1	1	2.1	96	70-130	
Manganese	mg/L	1.5	0.04	1.5	-90	70-130	M1
Molybdenum	mg/L	0.0086	0.04	0.050	104	70-130	

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QUALITY CONTROL DATA

Project: TEC BASA Perimeter Shallow-Revised Report
Pace Project No.: 60477292

QC Batch: 938602
QC Batch Method: EPA 200.8
Analysis Method: EPA 200.8
Analysis Description: 200.8 MET Dissolved
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60477292001, 60477292002, 60477292003, 60477292004, 60477292005, 60477292006

METHOD BLANK: 3721436 Matrix: Water
Associated Lab Samples: 60477292001, 60477292002, 60477292003, 60477292004, 60477292005, 60477292006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Aluminum, Dissolved	mg/L	<0.0082	0.050	0.0082	06/25/25 15:55	
Arsenic, Dissolved	mg/L	<0.00013	0.0010	0.00013	06/25/25 15:55	
Cobalt, Dissolved	mg/L	<0.00010	0.0010	0.00010	06/25/25 15:55	
Iron, Dissolved	mg/L	<0.0044	0.050	0.0044	06/25/25 15:55	
Manganese, Dissolved	mg/L	<0.00052	0.0010	0.00052	06/25/25 15:55	

LABORATORY CONTROL SAMPLE: 3721437

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	mg/L	1	0.97	97	85-115	
Arsenic, Dissolved	mg/L	0.04	0.040	100	85-115	
Cobalt, Dissolved	mg/L	0.04	0.040	99	85-115	
Iron, Dissolved	mg/L	1	1.1	106	85-115	
Manganese, Dissolved	mg/L	0.04	0.040	99	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3721438 3721439

Parameter	Units	60477285002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum, Dissolved	mg/L	<0.0082	1	1	1.0	1.0	101	101	70-130	1	20	
Arsenic, Dissolved	mg/L	0.00077J	0.04	0.04	0.042	0.042	102	103	70-130	1	20	
Cobalt, Dissolved	mg/L	0.00040J	0.04	0.04	0.039	0.040	97	98	70-130	1	20	
Iron, Dissolved	mg/L	0.0067J	1	1	1.3	1.1	128	106	70-130	18	20	
Manganese, Dissolved	mg/L	0.57	0.04	0.04	0.60	0.60	81	95	70-130	1	20	

MATRIX SPIKE SAMPLE: 3721440

Parameter	Units	60477292003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	mg/L	<0.0082	1	1.0	100	70-130	
Arsenic, Dissolved	mg/L	0.00072J	0.04	0.038	94	70-130	
Cobalt, Dissolved	mg/L	0.00023J	0.04	0.037	93	70-130	
Iron, Dissolved	mg/L	<0.0044	1	1.0	101	70-130	
Manganese, Dissolved	mg/L	0.19	0.04	0.23	98	70-130	

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QUALITY CONTROL DATA

Project: TEC BASA Perimeter Shallow-Revised Report
Pace Project No.: 60477292

QC Batch: 938960
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60477292001, 60477292002, 60477292003, 60477292004, 60477292005, 60477292006

METHOD BLANK: 3722644 Matrix: Water
Associated Lab Samples: 60477292001, 60477292002, 60477292003, 60477292004, 60477292005, 60477292006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Lithium	ug/L	<1.8	10.0	1.8	07/01/25 18:14	

LABORATORY CONTROL SAMPLE: 3722645

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lithium	ug/L	1000	988	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3722646 3722647

Parameter	Units	60477292001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lithium	ug/L	33.7	1000	1000	1030	981	100	95	75-125	5	20	

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QUALITY CONTROL DATA

Project: TEC BASA Perimeter Shallow-Revised Report
Pace Project No.: 60477292

QC Batch: 938725
QC Batch Method: SM 2320B
Analysis Method: SM 2320B
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60477292001, 60477292002, 60477292003, 60477292004, 60477292005, 60477292006

METHOD BLANK: 3721811 Matrix: Water
Associated Lab Samples: 60477292001, 60477292002, 60477292003, 60477292004, 60477292005, 60477292006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<10.5	20.0	10.5	06/16/25 16:09	
Alkalinity,Bicarbonate (CaCO3)	mg/L	<10.5	20.0	10.5	06/16/25 16:09	
Alkalinity,Carbonate (CaCO3)	mg/L	<10.5	20.0	10.5	06/16/25 16:09	

LABORATORY CONTROL SAMPLE: 3721812

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	500	483	97	90-110	

SAMPLE DUPLICATE: 3721813

Parameter	Units	60477292004 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	497	493	1	10	
Alkalinity,Bicarbonate (CaCO3)	mg/L	497	493	1	10	
Alkalinity,Carbonate (CaCO3)	mg/L	<10.5	<10.5		10	

SAMPLE DUPLICATE: 3721814

Parameter	Units	60477304003 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	31.0	32.0	3	10	
Alkalinity,Bicarbonate (CaCO3)	mg/L	31.0	32.0	3	10	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	<10.5		10	

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QUALITY CONTROL DATA

Project: TEC BASA Perimeter Shallow-Revised Report
Pace Project No.: 60477292

QC Batch: 938620 | Analysis Method: SM 2540C
QC Batch Method: SM 2540C | Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60477292001, 60477292002, 60477292003, 60477292004, 60477292005, 60477292006

METHOD BLANK: 3721461 Matrix: Water
Associated Lab Samples: 60477292001, 60477292002, 60477292003, 60477292004, 60477292005, 60477292006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<5.0	5.0	5.0	06/16/25 17:05	

LABORATORY CONTROL SAMPLE: 3721462

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	1000	980	98	80-120	

SAMPLE DUPLICATE: 3721463

Parameter	Units	60476939001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	278	274	1	10	

SAMPLE DUPLICATE: 3721464

Parameter	Units	60477292001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1030	1020	1	10	

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QUALITY CONTROL DATA

Project: TEC BASA Perimeter Shallow-Revised Report
Pace Project No.: 60477292

QC Batch: 939104
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: 60477292001, 60477292002, 60477292003, 60477292004, 60477292005, 60477292006

METHOD BLANK: 3723201 Matrix: Water
Associated Lab Samples: 60477292001, 60477292002, 60477292003, 60477292004, 60477292005, 60477292006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Iron, Ferrous	mg/L	<0.041	0.20	0.041	06/19/25 15:15	H6

LABORATORY CONTROL SAMPLE: 3723202

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Ferrous	mg/L	2	2.0	101	90-110	H6

SAMPLE DUPLICATE: 3723203

Parameter	Units	60477292005 Result	Dup Result	RPD	Max RPD	Qualifiers
Iron, Ferrous	mg/L	22.8	22.7	0	20	H6

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QUALITY CONTROL DATA

Project: TEC BASA Perimeter Shallow-Revised Report
Pace Project No.: 60477292

QC Batch: 938749
QC Batch Method: SM 4500-H+B
Analysis Method: SM 4500-H+B
Analysis Description: 4500H+B pH
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60477292001, 60477292002, 60477292003, 60477292004, 60477292005, 60477292006

SAMPLE DUPLICATE: 3721882

Parameter	Units	60477292005 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	6.4	6.4	1	5	H3

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QUALITY CONTROL DATA

Project: TEC BASA Perimeter Shallow-Revised Report
Pace Project No.: 60477292

QC Batch: 938793
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: 60477292001, 60477292002, 60477292003, 60477292004, 60477292005, 60477292006

METHOD BLANK: 3722004 Matrix: Water
Associated Lab Samples: 60477292001, 60477292002, 60477292003, 60477292004, 60477292005, 60477292006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide, Total	mg/L	<0.016	0.050	0.016	06/17/25 13:46	

LABORATORY CONTROL SAMPLE: 3722005

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	0.5	0.53	107	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3722007 3722008

Parameter	Units	60477292004 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	0.061	0.5	0.5	0.25	0.27	39	42	75-125	6	20	M1

SAMPLE DUPLICATE: 3722006

Parameter	Units	60477292004 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	0.061	0.069	12	20	

SAMPLE DUPLICATE: 3722009

Parameter	Units	60477292005 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	1.3	1.2	1	20	

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QUALITY CONTROL DATA

Project: TEC BASA Perimeter Shallow-Revised Report
Pace Project No.: 60477292

QC Batch: 938578
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: 60477292001, 60477292002, 60477292003, 60477292004, 60477292005, 60477292006

METHOD BLANK: 3721324 Matrix: Water
Associated Lab Samples: 60477292001, 60477292002, 60477292003, 60477292004, 60477292005, 60477292006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrate as N	mg/L	<0.055	0.10	0.055	06/13/25 20:33	
Nitrite as N	mg/L	<0.035	0.10	0.035	06/13/25 20:33	

LABORATORY CONTROL SAMPLE: 3721325

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrate as N	mg/L	2.7	2.6	98	90-110	
Nitrite as N	mg/L	2.7	2.6	99	90-110	

MATRIX SPIKE SAMPLE: 3721326

Parameter	Units	60477292001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrate as N	mg/L	<0.055	2	1.2	58	80-120	M1
Nitrite as N	mg/L	<0.035	2	1.5	75	80-120	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3721327 3721328

Parameter	Units	60477285002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrate as N	mg/L	0.54	2	2	3.2	3.3	134	139	80-120	3	15	M1
Nitrite as N	mg/L	<0.035	2	2	2.1	2.1	103	107	80-120	4	15	

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QUALITY CONTROL DATA

Project: TEC BASA Perimeter Shallow-Revised Report
Pace Project No.: 60477292

QC Batch: 940067
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: 60477292001, 60477292005, 60477292006

METHOD BLANK: 3726998 Matrix: Water
Associated Lab Samples: 60477292001, 60477292005, 60477292006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	<0.53	1.0	0.53	07/03/25 23:06	
Fluoride	mg/L	<0.12	0.20	0.12	07/03/25 23:06	
Sulfate	mg/L	<0.55	1.0	0.55	07/03/25 23:06	

LABORATORY CONTROL SAMPLE: 3726999

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	2.6	104	90-110	
Sulfate	mg/L	5	5.2	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3727000 3727001

Parameter	Units	60476421003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	<0.53	5	5	6.0	6.7	115	127	80-120	10	15	H1,M1
Fluoride	mg/L	<0.12	2.5	2.5	3.1	3.0	124	122	80-120	2	15	H1,M1
Sulfate	mg/L	<0.55	5	5	6.2	6.4	121	125	80-120	3	15	H1,M1

MATRIX SPIKE SAMPLE: 3727002

Parameter	Units	60477285007 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	304	250	647	137	80-120	M1
Fluoride	mg/L	<0.12	2.5	2.9	116	80-120	
Sulfate	mg/L	806	250	1150	138	80-120	E,M1

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QUALITY CONTROL DATA

Project: TEC BASA Perimeter Shallow-Revised Report
Pace Project No.: 60477292

QC Batch: 940891
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: 60477292002, 60477292003, 60477292004

METHOD BLANK: 3730228 Matrix: Water
Associated Lab Samples: 60477292002, 60477292003, 60477292004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	<0.53	1.0	0.53	07/08/25 12:51	
Fluoride	mg/L	<0.12	0.20	0.12	07/08/25 12:51	
Sulfate	mg/L	<0.55	1.0	0.55	07/08/25 12:51	

LABORATORY CONTROL SAMPLE: 3730229

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	5.3	107	90-110	
Fluoride	mg/L	2.5	2.6	106	90-110	
Sulfate	mg/L	5	5.1	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3730230 3730231

Parameter	Units	60477285003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	281	250	250	524	589	97	123	80-120	12	15	M1
Fluoride	mg/L	0.19J	2.5	2.5	2.8	2.8	105	106	80-120	0	15	
Sulfate	mg/L	190	250	250	409	475	88	114	80-120	15	15	

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QUALITY CONTROL DATA

Project: TEC BASA Perimeter Shallow-Revised Report
Pace Project No.: 60477292

QC Batch: 851110
QC Batch Method: EPA 350.1
Analysis Method: EPA 350.1
Analysis Description: 350.1 Ammonia
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 60477292001, 60477292002, 60477292003, 60477292004, 60477292005, 60477292006

METHOD BLANK: 3898344 Matrix: Water
Associated Lab Samples: 60477292001, 60477292002, 60477292003, 60477292004, 60477292005, 60477292006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	<0.10	0.10	0.030	06/26/25 15:13	

LABORATORY CONTROL SAMPLE: 3898345

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	5	5.4	108	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3898346 3898347

Parameter	Units	50404917003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Ammonia	mg/L	ND	5	5	5.5	5.5	110	110	90-110	0	20	

MATRIX SPIKE SAMPLE: 3898348

Parameter	Units	60477292002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	0.72	5	6.0	105	90-110	

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QUALITY CONTROL DATA

Project: TEC BASA Perimeter Shallow-Revised Report
Pace Project No.: 60477292

QC Batch: 851507
QC Batch Method: EPA 365.1
Analysis Method: EPA 365.1
Analysis Description: 365.1 Total Phosphorus
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 60477292001, 60477292002, 60477292003, 60477292004, 60477292005, 60477292006

METHOD BLANK: 3900332 Matrix: Water
Associated Lab Samples: 60477292001, 60477292002, 60477292003, 60477292004, 60477292005, 60477292006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Phosphorus	mg/L	0.050	0.050	0.044	07/02/25 12:11	B

LABORATORY CONTROL SAMPLE: 3900333

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphorus	mg/L	0.5	0.54	108	90-110	B

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3900334 3900335

Parameter	Units	60477179003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phosphorus	mg/L	1.5	0.5	0.5	2.0	1.9	103	90	90-110	3	20	B

MATRIX SPIKE SAMPLE: 3900336

Parameter	Units	50404979008 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phosphorus	mg/L	0.20	0.5	0.74	108	90-110	B

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QUALITY CONTROL DATA

Project: TEC BASA Perimeter Shallow-Revised Report
Pace Project No.: 60477292

QC Batch: 940190
QC Batch Method: SM 5310C
Analysis Method: SM 5310C
Analysis Description: 5310C Total Organic Carbon
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60477292001, 60477292002, 60477292003, 60477292004, 60477292005, 60477292006

METHOD BLANK: 3727829 Matrix: Water
Associated Lab Samples: 60477292001, 60477292002, 60477292003, 60477292004, 60477292005, 60477292006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Organic Carbon	mg/L	<0.54	1.0	0.54	06/30/25 00:03	

LABORATORY CONTROL SAMPLE: 3727830

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	5	5.8	117	80-120	

MATRIX SPIKE SAMPLE: 3727831

Parameter	Units	60477292005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	2.7	5	8.1	107	80-120	

SAMPLE DUPLICATE: 3727832

Parameter	Units	60477292005 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Organic Carbon	mg/L	2.7	2.7	1	25	

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QUALITY CONTROL DATA

Project: TEC BASA Perimeter Shallow-Revised Report
Pace Project No.: 60477292

QC Batch: 939457
QC Batch Method: SM 5310C
Analysis Method: SM 5310C
Analysis Description: 5310C Dissolved Organic Carbon
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60477292001, 60477292003, 60477292004, 60477292005, 60477292006

METHOD BLANK: 3724779 Matrix: Water
Associated Lab Samples: 60477292001, 60477292003, 60477292004, 60477292005, 60477292006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Dissolved Organic Carbon	mg/L	<0.54	1.0	0.54	06/23/25 12:48	

LABORATORY CONTROL SAMPLE: 3724780

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	5	5.8	116	80-120	

MATRIX SPIKE SAMPLE: 3724781

Parameter	Units	60476352004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	6.8	10	18.6	117	80-120	

SAMPLE DUPLICATE: 3724782

Parameter	Units	60476352002 Result	Dup Result	RPD	Max RPD	Qualifiers
Dissolved Organic Carbon	mg/L	1.5	1.3	11	25	

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QUALITY CONTROL DATA

Project: TEC BASA Perimeter Shallow-Revised Report
Pace Project No.: 60477292

QC Batch: 940422
QC Batch Method: SM 5310C
Analysis Method: SM 5310C
Analysis Description: 5310C Dissolved Organic Carbon
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60477292002

METHOD BLANK: 3728472 Matrix: Water
Associated Lab Samples: 60477292002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Dissolved Organic Carbon	mg/L	<0.54	1.0	0.54	07/01/25 18:08	

LABORATORY CONTROL SAMPLE: 3728473

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	5	5.8	117	80-120	

MATRIX SPIKE SAMPLE: 3728474

Parameter	Units	60477292002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	5.3	25	33.8	114	80-120	

SAMPLE DUPLICATE: 3728475

Parameter	Units	60477292002 Result	Dup Result	RPD	Max RPD	Qualifiers
Dissolved Organic Carbon	mg/L	5.3	5.3	1	25	D3

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QUALIFIERS

Project: TEC BASA Perimeter Shallow-Revised Report
Pace Project No.: 60477292

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.

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BATCH QUALIFIERS

Batch: 851976

[B0]	Analyte was detected in an associated blank at a concentration greater than the MDL.

ANALYTE QUALIFIERS

A	Suspected aldol-condensation product (TICs).
B	Analyte was detected in the associated method blank.
D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
E	Analyte concentration exceeded the calibration range. The reported result is estimated.
H1	Analysis conducted outside the EPA method holding time.
H3	Sample was received or analysis requested beyond the recognized 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.
P6	Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: TEC BASA Perimeter Shallow-Revised Report
Pace Project No.: 60477292

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60477292001	**MW-15-061225**	EPA 200.7	938598	EPA 200.7	938657
60477292002	**MW-16-061225**	EPA 200.7	938598	EPA 200.7	938657
60477292003	**MW-17-061225**	EPA 200.7	938598	EPA 200.7	938657
60477292004	**MW-18-061125**	EPA 200.7	938598	EPA 200.7	938657
60477292005	**MW-19-061125**	EPA 200.7	938598	EPA 200.7	938657
60477292006	**TEC-BASA-PERIMETER-DUP-061125**	EPA 200.7	938598	EPA 200.7	938657
60477292001	**MW-15-061225**	EPA 200.7	938600	EPA 200.7	938658
60477292002	**MW-16-061225**	EPA 200.7	938600	EPA 200.7	938658
60477292003	**MW-17-061225**	EPA 200.7	938600	EPA 200.7	938658
60477292004	**MW-18-061125**	EPA 200.7	938600	EPA 200.7	938658
60477292005	**MW-19-061125**	EPA 200.7	938600	EPA 200.7	938658
60477292006	**TEC-BASA-PERIMETER-DUP-061125**	EPA 200.7	938600	EPA 200.7	938658
60477292001	**MW-15-061225**	EPA 3010	938960	EPA 6010	938994
60477292002	**MW-16-061225**	EPA 3010	938960	EPA 6010	938994
60477292003	**MW-17-061225**	EPA 3010	938960	EPA 6010	938994
60477292004	**MW-18-061125**	EPA 3010	938960	EPA 6010	938994
60477292005	**MW-19-061125**	EPA 3010	938960	EPA 6010	938994
60477292006	**TEC-BASA-PERIMETER-DUP-061125**	EPA 3010	938960	EPA 6010	938994
60477292001	**MW-15-061225**	EPA 200.8	938597	EPA 200.8	938656
60477292002	**MW-16-061225**	EPA 200.8	938597	EPA 200.8	938656
60477292003	**MW-17-061225**	EPA 200.8	938597	EPA 200.8	938656
60477292004	**MW-18-061125**	EPA 200.8	938597	EPA 200.8	938656
60477292005	**MW-19-061125**	EPA 200.8	938597	EPA 200.8	938656
60477292006	**TEC-BASA-PERIMETER-DUP-061125**	EPA 200.8	938597	EPA 200.8	938656
60477292001	**MW-15-061225**	EPA 200.8	938602	EPA 200.8	938659
60477292002	**MW-16-061225**	EPA 200.8	938602	EPA 200.8	938659
60477292003	**MW-17-061225**	EPA 200.8	938602	EPA 200.8	938659
60477292004	**MW-18-061125**	EPA 200.8	938602	EPA 200.8	938659
60477292005	**MW-19-061125**	EPA 200.8	938602	EPA 200.8	938659
60477292006	**TEC-BASA-PERIMETER-DUP-061125**	EPA 200.8	938602	EPA 200.8	938659
60477292001	**MW-15-061225**	SM 2320B	938725		
60477292002	**MW-16-061225**	SM 2320B	938725		
60477292003	**MW-17-061225**	SM 2320B	938725		
60477292004	**MW-18-061125**	SM 2320B	938725		
60477292005	**MW-19-061125**	SM 2320B	938725		
60477292006	**TEC-BASA-PERIMETER-DUP-061125**	SM 2320B	938725		
60477292001	**MW-15-061225**	SM 2540C	938620		
60477292002	**MW-16-061225**	SM 2540C	938620		
60477292003	**MW-17-061225**	SM 2540C	938620		
60477292004	**MW-18-061125**	SM 2540C	938620		
60477292005	**MW-19-061125**	SM 2540C	938620		

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: TEC BASA Perimeter Shallow-Revised Report
Pace Project No.: 60477292

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60477292006	**TEC-BASA-PERIMETER-DUP-061125**	SM 2540C	938620		
60477292001	**MW-15-061225**	SM 3500-Fe B#4	939104		
60477292002	**MW-16-061225**	SM 3500-Fe B#4	939104		
60477292003	**MW-17-061225**	SM 3500-Fe B#4	939104		
60477292004	**MW-18-061125**	SM 3500-Fe B#4	939104		
60477292005	**MW-19-061125**	SM 3500-Fe B#4	939104		
60477292006	**TEC-BASA-PERIMETER-DUP-061125**	SM 3500-Fe B#4	939104		
60477292001	**MW-15-061225**	SM 4500-H+B	938749		
60477292002	**MW-16-061225**	SM 4500-H+B	938749		
60477292003	**MW-17-061225**	SM 4500-H+B	938749		
60477292004	**MW-18-061125**	SM 4500-H+B	938749		
60477292005	**MW-19-061125**	SM 4500-H+B	938749		
60477292006	**TEC-BASA-PERIMETER-DUP-061125**	SM 4500-H+B	938749		
60477292001	**MW-15-061225**	SM 4500-S-2 D	938793		
60477292002	**MW-16-061225**	SM 4500-S-2 D	938793		
60477292003	**MW-17-061225**	SM 4500-S-2 D	938793		
60477292004	**MW-18-061125**	SM 4500-S-2 D	938793		
60477292005	**MW-19-061125**	SM 4500-S-2 D	938793		
60477292006	**TEC-BASA-PERIMETER-DUP-061125**	SM 4500-S-2 D	938793		
60477292001	**MW-15-061225**	EPA 300.0	938578		
60477292002	**MW-16-061225**	EPA 300.0	938578		
60477292003	**MW-17-061225**	EPA 300.0	938578		
60477292004	**MW-18-061125**	EPA 300.0	938578		
60477292005	**MW-19-061125**	EPA 300.0	938578		
60477292006	**TEC-BASA-PERIMETER-DUP-061125**	EPA 300.0	938578		
60477292001	**MW-15-061225**	EPA 300.0	940067		
60477292002	**MW-16-061225**	EPA 300.0	940891		
60477292003	**MW-17-061225**	EPA 300.0	940891		
60477292004	**MW-18-061125**	EPA 300.0	940891		
60477292005	**MW-19-061125**	EPA 300.0	940067		
60477292006	**TEC-BASA-PERIMETER-DUP-061125**	EPA 300.0	940067		
60477292001	**MW-15-061225**	EPA 350.1	851110		
60477292002	**MW-16-061225**	EPA 350.1	851110		
60477292003	**MW-17-061225**	EPA 350.1	851110		
60477292004	**MW-18-061125**	EPA 350.1	851110		
60477292005	**MW-19-061125**	EPA 350.1	851110		
60477292006	**TEC-BASA-PERIMETER-DUP-061125**	EPA 350.1	851110		
60477292001	**MW-15-061225**	EPA 365.1	851507	EPA 365.1	851976
60477292002	**MW-16-061225**	EPA 365.1	851507	EPA 365.1	851976

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: TEC BASA Perimeter Shallow-Revised Report
Pace Project No.: 60477292

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60477292003	**MW-17-061225**	EPA 365.1	851507	EPA 365.1	851976
60477292004	**MW-18-061125**	EPA 365.1	851507	EPA 365.1	851976
60477292005	**MW-19-061125**	EPA 365.1	851507	EPA 365.1	851976
60477292006	**TEC-BASA-PERIMETER-DUP-061125**	EPA 365.1	851507	EPA 365.1	851976
60477292001	**MW-15-061225**	SM 5310C	940190		
60477292002	**MW-16-061225**	SM 5310C	940190		
60477292003	**MW-17-061225**	SM 5310C	940190		
60477292004	**MW-18-061125**	SM 5310C	940190		
60477292005	**MW-19-061125**	SM 5310C	940190		
60477292006	**TEC-BASA-PERIMETER-DUP-061125**	SM 5310C	940190		
60477292001	**MW-15-061225**	SM 5310C	939457		
60477292002	**MW-16-061225**	SM 5310C	940422		
60477292003	**MW-17-061225**	SM 5310C	939457		
60477292004	**MW-18-061125**	SM 5310C	939457		
60477292005	**MW-19-061125**	SM 5310C	939457		
60477292006	**TEC-BASA-PERIMETER-DUP-061125**	SM 5310C	939457		

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Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-LENE-0009_Sampl	WO# : 60477292
	Revision: 2	Effective Date: 01/12/20

Client Name: Evergy Kansas Central, Inc.

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 ☑ zPLC

Thermometer Used: T301 **Type of Ice:** (Wet) Blue None

Cooler Temperature (°C): **As-read** 1.1 **Corr. Factor** +0.1 **Corrected** 1.2 1.6

Date and initials of person examining contents: 6/14 RS JA

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	Samples 4-6 out of Hold
Short Hold Time analyses (<72hr):	☑Yes ☐No ☐N/A	NOX
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, OK-DRO) LOT#: 887	☑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

60477292

Scan QR Code for instructions

Company Name:	Evergy Kansas Central, Inc.	Contact/Report To:	Jake Humphrey
Street Address:	818 S Kansas Avenue, Topeka, KS 66612	Phone #:	(913)634-0605
		E-Mail:	jake.humphrey@evergy.com
		Cc E-Mail:	skaney@haleyaldrich.com
Customer Project #:			
Project Name:	TEC BASA PERIMETER - SHALLOW	Invoice To:	Tecumseh Center
		Invoice E-Mail:	evergyap@onlinecapturecenter.com
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	WSTR-2000094802
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [X] CT [ ] ET

County / State origin of sample(s): Kansas

Data Deliverables:
[ ] Level II [ ] Level III [ ] Level IV
[ ] EQUIS
[ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [ ] Yes [X] No

Rush (Pre-approval required):
[ ] Same Day [ ] 1 Day [ ] 2 Day [ ] 3 Day [ ] Other _____

DW PWSID # or WW Permit # as applicable: NA

Date Results Requested:

Field Filtered (if applicable): [X] Yes [ ] No
Analysis: Metals, Dissolved; DOC

* 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 **

2	3	3	2	3	3	3	3	6	3

Identify Container Preservative Type***

2	2	1	1	1	5,6	3	3	4	3

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	200.7/200.8 Diss Metals	200.7/200.8/6010 Total Metals	2320B Alkalinity	2540C Total Dissolved Solids	300.0 Cl,F,SO4,pH	4500S2D Sulfide, Total	5310C Dissolved Organic Carbon	5310C TOC	Iron, Ferrous	NO2NO3, Total Phosphorus	Sample Comment
MW-15-061225	GW	Grab	-	-	6/12/2025	1340	11	-	-	X	X	X	X	X	X	X	X	X	X	
MW-16-061225	GW	Grab	-	-	6/12/2025	1145	11	-	-	X	X	X	X	X	X	X	X	X	X	
MW-17-061225	GW	Grab	-	-	6/12/2025	1050	11	-	-	X	X	X	X	X	X	X	X	X	X	
MW-18-061125	GW	Grab	-	-	6/11/2025	1335	11	-	-	X	X	X	X	X	X	X	X	X	X	
MW-19-061125	GW	Grab	-	-	6/11/2025	1205	11	-	-	X	X	X	X	X	X	X	X	X	X	
TEC-BASA-PERIMETER-DUP-061125	GW	Grab	-	-	6/11/2025	1205	11	-	-	X	X	X	X	X	X	X	X	X	X	

**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: Alice Spiller
AcctNum / Client ID:
Table #:
Profile / Template: 16502
Prelog / Bottle Ord. ID: EZ 3266659

Preservation non-conformance identified for sample.

Additional Instructions from Pace®:
Total metals; B,Ca,As,Ba,Co,Li,Mo,Mg,Na,K,Al,Fe,Mn,Hardness
Dissolved Metals: As,Co,Fe,Al,Mg,Mn

Collected By:
(Printed Name): Jason R. Franks
Signature: Jason R. Franks

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)	On Ice:
				1.0	

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
Jason R. Franks / SCS	06/13/2025 / 15:00	DF Pace	6/13 1551	
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 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/

WO# : 50405148

50405148

Chain of Custody

Pace

☐ Rush Multiplier_____X

☒ Samples Pre-Logged into eCOC

State Of Origin: KS

Cert. Needed: ☒ Yes ☐ No

Workorder: 60477292 **Workorder Name:** TEC BASA Perimeter Shallow

Owner Received Date: 6/13/2025 **Results Requested By:** 6/30/2025

Report To	Subcontract To
Alice Spiller Pace Analytical Kansas 9608 Loiret Blvd. Lenexa, KS 66219 Phone (913)599-5665	Pace Analytical Indianapolis 7726 Moller Road Indianapolis, IN 46268 Phone (317)875-5894

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers: H2SO4	NO2NO3 pres	Total Phosphorus	LAB USE ONLY
1	MW-15-061225	PS	6/12/2025 13:40	60477292001	Water	1	X	X	001
2	MW-16-061225	PS	6/12/2025 11:45	60477292002	Water	1	X	X	002
3	MW-17-061225	PS	6/12/2025 10:50	60477292003	Water	1	X	X	003
4	MW-18-061125	PS	6/11/2025 13:35	60477292004	Water	1	X	X	004
5	MW-19-061125	PS	6/11/2025 12:05	60477292005	Water	1	X	X	005
6	TEC-BASA-PERIMETER-DUP-061125	PS	6/11/2025 12:05	60477292006	Water	1	X	X	006

Transfers	Released By	Date/Time	Received By	Date/Time
1	Pace	6/14/1700	Fedex	
2	Fedex	6.20 830		6.20 830
3				

Comments

LOCATION: 6090-R17-S3B

Cooler Temperature on Receipt 1.5 °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.*

Pace

SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: CW 6/20 1105

1. Thermometer: 1 2 3 4 5 6 7 8 9 A B C (D) E F G H I

2. Cooler Temperature(s): (Initial/Corrected) 1-5|1.5 | | | |

RECORD TEMPS OF ALL COOLERS RECEIVED (use Comments below to add more)

3. Was the PM notified of out of temp cooler?: (leave blank if samples are in temp) Yes No

Cooler temp should be above freezing to 6°C

If the PM was contacted in the comments below please write how they instructed the project to proceed

3. Packing Material: Bubble Wrap Bubble Bags (None) Other _____

4. Ice Type: (Wet) Blue None

5. Courier: (Fed Ex) UPS Client Pace Now/Jett Other

6. Custody Seal on Cooler/Box Present: (Yes) No

(If yes)Seals Intact: (Yes) No (leave blank if no seals were present)

All discrepancies will be written out in the comments section below.

	Yes	No
USDA Regulated Soils? (HI, ID, NY, WA, OR,CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		X
Short Hold Time Analysis (48 hours or less)? Analysis:		X
Time 5035A TC placed in Freezer or Short Holds To Lab	Time:	
Rush TAT Requested (4 days or less):		X
Custody Signatures Present?	X	
Containers Intact?:	X	
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	X	

	Yes	No	N/A
All containers needing acid/base preservation have been pH CHECKED?: Exceptions: VOA, coliform, LLHg, O&G, RAD CHEM, and any container with a septum cap or preserved with HCl. Circle: HNO3 (<2) (H2SO4 (<2)) NaOH (>10) NaOH/ZnAc (>9) Any non-conformance to pH recommendations will be noted on the container count form	X		
	Present	Absent	N/A
Residual Chlorine Check (SVOC 625 Pest/PCB 608)			X
Residual Chlorine Check (Total/Amenable/Free Cyanide)			X
	Present	Absent	No VOA Vials Sent
Headspace in VOA Vials (>6mm): See Containter Count form for details			X
Trip Blank Present?		X	
Trip Blank Custody Seals?:		X	
Extra labels on Terracore Vials? (soils only)			X

Comments:

			MeOH (only)					AMBER GLASS							PLASTIC									OTHER					Matrix	Nitric	Sulfuric	Hydroxide	ZnAc
			SBS																											Red	Yellow	Green	Black
			DI																											HNO3 <2	H2SO4 <2	NaOH >10	NaOH/ZnAc >9
COC Line Item	WGFU	WGKU BG1U	R	DG9H VG9H	VOA VIAL HS (>6mm)	VG9U DG9U	VG9T	AG0U	AG1H	AG1U	AG3U	AG3S	AG3SF	AG3B	BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	CG3H	CG3F	Syringe Kit								
1												1																	WT	✓			
2												|																	|			
3												|																	|			
4												|																	|			
5												|																	|			
6												↓																		↓			
7																																	
8																																	
9																																	
10																																	
11																																	
12																																	

Container Codes

Glass

DG9H	40mL HCl amber voa vial	BG1T	1L Na Thiosulfate clear glass	
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass	
DG9S	40mL H2SO4 amber vial	CG3H	250mL HCl Clear Glass	
DG9T	40mL Na Thio amber vial	CG3U	250mL Unpres Clear Glass	
DG9U	40mL unpreserved amber vial	AG0U	100mL unpres amber glass	
VG9H	40mL HCl clear vial	AG1H	1L HCl amber glass	
VG9T	40mL Na Thio. clear vial	AG1S	1L H2SO4 amber glass	
VG9U	40mL unpreserved clear vial	AG1T	1L Na Thiosulfate amber glass	
I	40mL w/hexane wipe vial	AG1U	1liter unpres amber glass	
WGKU	8oz unpreserved clear jar	AG2N	500mL HNO3 amber glass	
WGFU	4oz clear soil jar	AG2S	500mL H2SO4 amber glass	
JGFU	4oz unpreserved amber wide	AG2U	500mL unpres amber glass	
CG3H	250mL clear glass HCl	AG3S	250mL H2SO4 amber glass	
CG3F	250mL clear glass HCl, Field Filter	AG3SF	250mL H2SO4 amb glass -field filtered	
BG1H	1L HCl clear glass	AG3U	250mL unpres amber glass	
BG1S	1L H2SO4 clear glass	AG3B	250mL NaOH amber glass	

Plastic

BP1B	1L NaOH plastic
BP1N	1L HNO3 plastic
BP1S	1L H2SO4 plastic
BP1U	1L unpreserved plastic
BP1Z	1L NaOH, Zn, Ac
BP2N	500mL HNO3 plastic
BP2C	500mL NaOH plastic
BP2S	500mL H2SO4 plastic
BP2U	500mL unpreserved plastic
BP2Z	500mL NaOH, Zn Ac
BP3B	250mL NaOH plastic
BP3N	250mL HNO3 plastic
BP3F	250mL HNO3 plastic-field filtered
BP3U	250mL unpreserved plastic
BP3S	250mL H2SO4 plastic
BP3Z	250mL NaOH, ZnAc plastic
NT3U	Non Teflon 250mL unpreserved plastic
BP4U	125mL unpreserved plastic
BP4N	125mL HNO3 plastic
BP4S	125mL H2SO4 plastic

Miscellaneous

Syringe Kit	LL Cr+6 sampling kit
ZPLC	Ziploc Bag
R	Terracore Kit
SP5T	120mL Coliform Sodium Thiosulfate
GN	General Container
U	Summa Can (air sample)
WT	Water
SL	Solid
OL:	Oil
NAL	Non-aqueous liquid
WP	Wipe

INTER_LABORATORY WORK ORDER # 60477292
(To be completed by sending lab)

Ship To:
Pace Analytical Indianapolis
7726 Moller Road
Indianapolis, IN 46268
Phone (317)875-5894

Sending Project No:	60477292
Receiving Project No:	
Check Box for Consolidated Invoice:	☐
Date Prepared:	06/18/25
REQUESTED COMPLETION DATE:	**6/30/2025**

Sending Region	IR60-Kansas	Sending Project Mgr.	Alice Spiller
Receiving Region	IR50-Indianapolis	External Client	Evergy_Haley & Aldrich
State of Sample Origin	KS	QC Deliverable	STD REPORT

All questions should be addressed to sending project manager.

Requested Reportable Units _____ Report Wet or Dry Weight? _____ ☐ IRWO Lab Need to run? Cert. Needed Yes

WORK REQUESTED

Method Description	Container Type	Quantity of containers	Preservative	Quantity of Samples	Acode	Acode Desc
NO2NO3 pres	AG3S	8	H2SO4	6	SI-21WET	SUB PASI WET
Total Phosphorus			H2SO4	6	SI-21WET0	SUB PASI WTA

Special Requirements: Report C, QC Limits (C),Haley & Aldrich Equis (230),PEG Level BR (497)

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.

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

September 10, 2025

Jake Humphrey
Evergy, Inc.
818 S Kansas Avenue
Topeka, KS 66612

RE: Project: TECBASA Perimeter DEEP-Revised Report
Pace Project No.: 60477295

Dear Jake Humphrey:

Enclosed are the analytical results for sample(s) received by the laboratory on June 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 - Indianapolis
- Pace Analytical Services - Kansas City

REVISED to report data down to the MDL per client request.

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

Sincerely,

Alice Spiller

Alice Spiller
alice.spiller@pacelabs.com
(913)599-5665
PM Lab Management

Enclosures

cc: Samantha Kaney, Haley & Aldrich
Melanie Satanek, Haley & Aldrich, Inc.
Adriana Sosa, Haley & Aldrich, Inc.
Nick Williams, Haley Aldrich

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CERTIFICATIONS

Project: TECBASA Perimeter DEEP-Revised Report
Pace Project No.: 60477295

Pace Analytical Services Indianapolis

7726 Moller Road, Indianapolis, IN 46268
Illinois Accreditation #: 200074
Indiana Drinking Water Laboratory #: C-49-06
Kansas/TNI Certification #: E-10177
Kentucky UST Agency Interest #: 80226
Kentucky WW Laboratory ID #: 98019
Louisiana Certification #: 04076
Michigan Drinking Water Laboratory #9050
Oklahoma Laboratory #: 9204
Texas Certification #: T104704355
Washington Dept of Ecology #: C1081
Wisconsin Laboratory #: 999788130
USDA Foreign Soil Permit #: 525-23-13-23119
USDA Compliance Agreement #: IN-SL-22-001

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

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: TECBASA Perimeter DEEP-Revised Report
Pace Project No.: 60477295

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60477295001	**MW-12D-061225**	Water	06/12/25 14:45	06/13/25 15:51
60477295002	**MW-20-061125**	Water	06/11/25 14:45	06/13/25 15:51
60477295003	**MW-21-061225**	Water	06/12/25 12:40	06/13/25 15:51
60477295004	**MW-22-061225**	Water	06/12/25 09:50	06/13/25 15:51

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SAMPLE ANALYTE COUNT

Project: TECBASA Perimeter DEEP-Revised Report
Pace Project No.: 60477295

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60477295001	**MW-12D-061225**	EPA 200.7	ARMN	6	PASI-K
		EPA 200.7	ARMN	1	PASI-K
		EPA 6010	ARMN	1	PASI-K
		EPA 200.8	JGP	7	PASI-K
		EPA 200.8	JGP	5	PASI-K
		SM 2320B	EFM	3	PASI-K
		SM 2540C	CAR	1	PASI-K
		SM 3500-Fe B#4	DLJ	1	PASI-K
		SM 4500-H+B	EFM	1	PASI-K
		SM 4500-S-2 D	DLJ	1	PASI-K
		EPA 300.0	MLD	3	PASI-K
		EPA 353.2	KCS	1	PASI-I
		EPA 365.1	JTR	1	PASI-I
		SM 5310C	ATS	1	PASI-I
		SM 5310C	ATS	1	PASI-I
60477295002	**MW-20-061125**	EPA 200.7	ARMN	6	PASI-K
		EPA 200.7	ARMN	1	PASI-K
		EPA 6010	ARMN	1	PASI-K
		EPA 200.8	JGP	7	PASI-K
		EPA 200.8	JGP	5	PASI-K
		SM 2320B	EFM	3	PASI-K
		SM 2540C	CAR	1	PASI-K
		SM 3500-Fe B#4	DLJ	1	PASI-K
		SM 4500-H+B	EFM	1	PASI-K
		SM 4500-S-2 D	DLJ	1	PASI-K
		EPA 300.0	MLD	3	PASI-K
		EPA 353.2	KCS	1	PASI-I
		EPA 365.1	JTR	1	PASI-I
		SM 5310C	ATS	1	PASI-I
		SM 5310C	ATS	1	PASI-I
60477295003	**MW-21-061225**	EPA 200.7	ARMN	6	PASI-K
		EPA 200.7	ARMN	1	PASI-K
		EPA 6010	ARMN	1	PASI-K
		EPA 200.8	JGP	7	PASI-K
		EPA 200.8	JGP	5	PASI-K
		SM 2320B	EFM	3	PASI-K
		SM 2540C	CAR	1	PASI-K

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: TECBASA Perimeter DEEP-Revised Report
Pace Project No.: 60477295

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 3500-Fe B#4	DLJ	1	PASI-K
		SM 4500-H+B	EFM	1	PASI-K
		SM 4500-S-2 D	DLJ	1	PASI-K
		EPA 300.0	MLD	3	PASI-K
		EPA 353.2	KCS	1	PASI-I
		EPA 365.1	JTR	1	PASI-I
		SM 5310C	ATS	1	PASI-I
		SM 5310C	ATS	1	PASI-I
60477295004	**MW-22-061225**	EPA 200.7	ARMN	6	PASI-K
		EPA 200.7	ARMN	1	PASI-K
		EPA 6010	ARMN	1	PASI-K
		EPA 200.8	JGP	7	PASI-K
		EPA 200.8	JGP	5	PASI-K
		SM 2320B	EFM	3	PASI-K
		SM 2540C	CAR	1	PASI-K
		SM 3500-Fe B#4	DLJ	1	PASI-K
		SM 4500-H+B	EFM	1	PASI-K
		SM 4500-S-2 D	DLJ	1	PASI-K
		EPA 300.0	MLD	3	PASI-K
		EPA 353.2	KCS	1	PASI-I
		EPA 365.1	JTR	1	PASI-I
		SM 5310C	ATS	1	PASI-I
		SM 5310C	ATS	1	PASI-I

PASI-I = Pace Analytical Services - Indianapolis
PASI-K = Pace Analytical Services - Kansas City

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: TECBASA Perimeter DEEP-Revised Report
Pace Project No.: 60477295

Method: **EPA 200.7**
Description: 200.7 Metals, Total
Client: Evergy_Haley & Aldrich
Date: September 10, 2025

General Information:
4 samples were analyzed for EPA 200.7 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 200.7 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 938685

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60477293001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 3721691)
  - Calcium
  - Magnesium
  - Sodium
- MSD (Lab ID: 3721692)
  - Calcium
  - Sodium

Additional Comments:

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PROJECT NARRATIVE

Project: TECBASA Perimeter DEEP-Revised Report
Pace Project No.: 60477295

Method: **EPA 200.7**
Description: 200.7 Metals, Dissolved
Client: Evergy_Haley & Aldrich
Date: September 10, 2025

General Information:
4 samples were analyzed for EPA 200.7 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 200.7 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 938693

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60477295001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 3721720)
  - Magnesium, Dissolved

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: TECBASA Perimeter DEEP-Revised Report
Pace Project No.: 60477295

Method: **EPA 6010**
Description: 6010 MET ICP
Client: Evergy_Haley & Aldrich
Date: September 10, 2025

General Information:
4 samples were analyzed for EPA 6010 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TECBASA Perimeter DEEP-Revised Report
Pace Project No.: 60477295

Method: **EPA 200.8**
Description: 200.8 MET ICPMS
Client: Evergy_Haley & Aldrich
Date: September 10, 2025

General Information:
4 samples were analyzed for EPA 200.8 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 200.8 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: 938687

D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

- MW-20-061125 (Lab ID: 60477295002)
  - Arsenic, Total Recoverable
  - Cobalt, Total Recoverable
- MW-21-061225 (Lab ID: 60477295003)
  - Arsenic, Total Recoverable
  - Cobalt, Total Recoverable
- MW-22-061225 (Lab ID: 60477295004)
  - Arsenic, Total Recoverable
  - Cobalt, Total Recoverable

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PROJECT NARRATIVE

Project: TECBASA Perimeter DEEP-Revised Report
Pace Project No.: 60477295

Method: **EPA 200.8**
Description: 200.8 MET ICPMS, Dissolved
Client: Evergy_Haley & Aldrich
Date: September 10, 2025

General Information:
4 samples were analyzed for EPA 200.8 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 200.8 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 938694

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60477295002

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 3721724)
  - Cobalt, Dissolved
- MSD (Lab ID: 3721725)
  - Cobalt, Dissolved

Additional Comments:

Analyte Comments:

QC Batch: 938694

D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

- MW-12D-061225 (Lab ID: 60477295001)
  - Aluminum, Dissolved

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: TECBASA Perimeter DEEP-Revised Report
Pace Project No.: 60477295

Method: **EPA 200.8**
Description: 200.8 MET ICPMS, Dissolved
Client: Evergy_Haley & Aldrich
Date: September 10, 2025

Analyte Comments:

QC Batch: 938694

D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

- MW-12D-061225 (Lab ID: 60477295001)
  - Arsenic, Dissolved
  - Cobalt, Dissolved
  - Iron, Dissolved
- MW-20-061125 (Lab ID: 60477295002)
  - Aluminum, Dissolved
  - Arsenic, Dissolved
  - Cobalt, Dissolved
  - Iron, Dissolved
- MW-21-061225 (Lab ID: 60477295003)
  - Aluminum, Dissolved
  - Arsenic, Dissolved
  - Cobalt, Dissolved
  - Iron, Dissolved
- MW-22-061225 (Lab ID: 60477295004)
  - Aluminum, Dissolved
  - Arsenic, Dissolved
  - Cobalt, Dissolved
  - Iron, Dissolved

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PROJECT NARRATIVE

Project: TECBASA Perimeter DEEP-Revised Report
Pace Project No.: 60477295

Method: **SM 2320B**
Description: 2320B Alkalinity
Client: Evergy_Haley & Aldrich
Date: September 10, 2025

General Information:
4 samples were analyzed for SM 2320B by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TECBASA Perimeter DEEP-Revised Report
Pace Project No.: 60477295

Method: **SM 2540C**
Description: 2540C Total Dissolved Solids
Client: Evergy_Haley & Aldrich
Date: September 10, 2025

General Information:
4 samples were analyzed for SM 2540C by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TECBASA Perimeter DEEP-Revised Report
Pace Project No.: 60477295

Method: **SM 3500-Fe B#4**
Description: Iron, Ferrous
Client: Evergy_Haley & Aldrich
Date: September 10, 2025

General Information:
4 samples were analyzed for SM 3500-Fe B#4 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

H6: Analysis initiated outside of the 15 minute EPA required holding time.
- MW-12D-061225 (Lab ID: 60477295001)
- MW-20-061125 (Lab ID: 60477295002)
- MW-21-061225 (Lab ID: 60477295003)
- MW-22-061225 (Lab ID: 60477295004)

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TECBASA Perimeter DEEP-Revised Report
Pace Project No.: 60477295

Method: **SM 4500-H+B**
Description: 4500H+ pH, Electrometric
Client: Evergy_Haley & Aldrich
Date: September 10, 2025

General Information:
4 samples were analyzed for SM 4500-H+B by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

H3: Sample was received or analysis requested beyond the recognized method holding time.
- MW-12D-061225 (Lab ID: 60477295001)
- MW-20-061125 (Lab ID: 60477295002)
- MW-21-061225 (Lab ID: 60477295003)
- MW-22-061225 (Lab ID: 60477295004)

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TECBASA Perimeter DEEP-Revised Report
Pace Project No.: 60477295

Method: **SM 4500-S-2 D**
Description: 4500S2D Sulfide, Total
Client: Evergy_Haley & Aldrich
Date: September 10, 2025

General Information:
4 samples were analyzed for SM 4500-S-2 D by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 938793

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60477292004

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 3722007)
  - Sulfide, Total
- MSD (Lab ID: 3722008)
  - Sulfide, Total

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TECBASA Perimeter DEEP-Revised Report
Pace Project No.: 60477295

Method: **EPA 300.0**
Description: 300.0 IC Anions 28 Days
Client: Evergy_Haley & Aldrich
Date: September 10, 2025

General Information:
4 samples were analyzed for EPA 300.0 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: 940069

D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

- MW-12D-061225 (Lab ID: 60477295001)
  - Fluoride
- MW-20-061125 (Lab ID: 60477295002)
  - Fluoride
- MW-21-061225 (Lab ID: 60477295003)
  - Fluoride
- MW-22-061225 (Lab ID: 60477295004)
  - Fluoride

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PROJECT NARRATIVE

Project: TECBASA Perimeter DEEP-Revised Report
Pace Project No.: 60477295

Method: **EPA 353.2**
Description: 353.2 Nitrogen, NO2/NO3 pres.
Client: Evergy_Haley & Aldrich
Date: September 10, 2025

General Information:
4 samples were analyzed for EPA 353.2 by Pace Analytical Services Indianapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TECBASA Perimeter DEEP-Revised Report
Pace Project No.: 60477295

Method: **EPA 365.1**
Description: 365.1 Total Phosphorus
Client: Evergy_Haley & Aldrich
Date: September 10, 2025

General Information:
4 samples were analyzed for EPA 365.1 by Pace Analytical Services Indianapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 365.1 with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

QC Batch: 851022

B: Analyte was detected in the associated method blank.
- BLANK for HBN 851022 [WETA/827 (Lab ID: 3897886)
  - Phosphorus

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 851022

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60477120001

M0: Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
- MSD (Lab ID: 3897889)
  - Phosphorus

Additional Comments:

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PROJECT NARRATIVE

Project: TECBASA Perimeter DEEP-Revised Report
Pace Project No.: 60477295

Method: **SM 5310C**
Description: 5310C TOC
Client: Evergy_Haley & Aldrich
Date: September 10, 2025

General Information:
4 samples were analyzed for SM 5310C by Pace Analytical Services Indianapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TECBASA Perimeter DEEP-Revised Report
Pace Project No.: 60477295

Method: **SM 5310C**
Description: 5310C Dissolved Organic Carbon
Client: Evergy_Haley & Aldrich
Date: September 10, 2025

General Information:
4 samples were analyzed for SM 5310C by Pace Analytical Services Indianapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: TECBASA Perimeter DEEP-Revised Report
Pace Project No.: 60477295

Sample: MW-12D-061225 **Lab ID: 60477295001** Collected: 06/12/25 14:45 Received: 06/13/25 15:51 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								
Boron, Total Recoverable	**2.2**	mg/L	0.10	0.033	1	06/16/25 13:42	07/02/25 13:56	7440-42-8	
Calcium, Total Recoverable	**159**	mg/L	0.20	0.045	1	06/16/25 13:42	07/02/25 13:56	7440-70-2	
Magnesium, Total Recoverable	**95.4**	mg/L	0.050	0.021	1	06/16/25 13:42	07/02/25 13:56	7439-95-4	
Potassium, Total Recoverable	**16.3**	mg/L	0.50	0.045	1	06/16/25 13:42	07/02/25 13:56	7440-09-7	
Sodium, Total Recoverable	**4830**	mg/L	10.0	0.64	20	06/16/25 13:42	07/07/25 12:07	7440-23-5	
Total Hardness by 2340B, Total Recoverable	**790**	mg/L	0.50	0.20	1	06/16/25 13:42	07/02/25 13:56		
200.7 Metals, Dissolved	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City								
Magnesium, Dissolved	**105**	mg/L	0.050	0.021	1	06/16/25 13:42	07/01/25 17:58	7439-95-4	M1,P6
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Kansas City								
Lithium, Total Recoverable	**204**	ug/L	10.0	1.8	1	06/18/25 09:34	07/01/25 18:49	7439-93-2	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Aluminum, Total Recoverable	**0.82**	mg/L	0.10	0.016	2	06/16/25 13:42	06/26/25 15:41	7429-90-5	
Arsenic, Total Recoverable	**0.0020**	mg/L	0.0020	0.00026	2	06/16/25 13:42	06/26/25 15:41	7440-38-2	
Barium, Total Recoverable	**0.068**	mg/L	0.0020	0.00043	2	06/16/25 13:42	06/26/25 15:41	7440-39-3	
Cobalt, Total Recoverable	**0.0025**	mg/L	0.0020	0.00021	2	06/16/25 13:42	06/26/25 15:41	7440-48-4	
Iron, Total Recoverable	**1.5**	mg/L	0.10	0.0088	2	06/16/25 13:42	06/26/25 15:41	7439-89-6	
Manganese, Total Recoverable	**0.19**	mg/L	0.0020	0.0010	2	06/16/25 13:42	06/26/25 15:41	7439-96-5	
Molybdenum, Total Recoverable	**0.0018J**	mg/L	0.0030	0.00048	3	06/16/25 13:42	06/27/25 10:40	7439-98-7	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Aluminum, Dissolved	**<0.016**	mg/L	0.10	0.016	2	06/16/25 13:42	06/26/25 16:26	7429-90-5	D3
Arsenic, Dissolved	**0.0011J**	mg/L	0.0020	0.00026	2	06/16/25 13:42	06/26/25 16:26	7440-38-2	D3
Cobalt, Dissolved	**0.0014J**	mg/L	0.0030	0.00031	3	06/16/25 13:42	06/29/25 16:20	7440-48-4	D3
Iron, Dissolved	**<0.0088**	mg/L	0.10	0.0088	2	06/16/25 13:42	06/26/25 16:26	7439-89-6	D3
Manganese, Dissolved	**0.14**	mg/L	0.0020	0.0010	2	06/16/25 13:42	06/26/25 16:26	7439-96-5	
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Kansas City								
Alkalinity,Bicarbonate (CaCO3)	**205**	mg/L	20.0	10.5	1		06/16/25 18:58		
Alkalinity,Carbonate (CaCO3)	**<10.5**	mg/L	20.0	10.5	1		06/16/25 18:58		
Alkalinity, Total as CaCO3	**205**	mg/L	20.0	10.5	1		06/16/25 18:58		
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City								
Total Dissolved Solids	**13700**	mg/L	1000	1000	1		06/16/25 17:07		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TECBASA Perimeter DEEP-Revised Report
Pace Project No.: 60477295

Sample: MW-12D-061225 **Lab ID: 60477295001** Collected: 06/12/25 14:45 Received: 06/13/25 15:51 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Iron, Ferrous	Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City								
Iron, Ferrous	**0.12J**	mg/L	0.20	0.041	1		06/19/25 15:15	15438-31-0	H6
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Kansas City								
pH at 25 Degrees C	**7.2**	Std. Units	0.10	0.10	1		06/16/25 18:32		H3
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		06/17/25 13:46	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City								
Chloride	**7620**	mg/L	1000	765	1000		07/02/25 02:50	16887-00-6	
Fluoride	**<1.6**	mg/L	2.0	1.6	10		07/02/25 02:24	16984-48-8	D3
Sulfate	**1100**	mg/L	100	43.1	100		07/02/25 02:37	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis								
Nitrogen, NO2 plus NO3	**2.6**	mg/L	0.20	0.026	2		06/25/25 13:33		
365.1 Total Phosphorus	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis								
Phosphorus	**<0.050**	mg/L	0.050	0.044	1	06/26/25 09:00	06/28/25 12:48	7723-14-0	
5310C TOC	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis								
Total Organic Carbon	**<1.0**	mg/L	1.0	0.30	1		06/28/25 08:01	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis								
Dissolved Organic Carbon	**<1.0**	mg/L	1.0	0.30	1		06/28/25 10:28		

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ANALYTICAL RESULTS

Project: TECBASA Perimeter DEEP-Revised Report
Pace Project No.: 60477295

Sample: MW-20-061125 **Lab ID: 60477295002** Collected: 06/11/25 14:45 Received: 06/13/25 15:51 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								
Boron, Total Recoverable	**2.4**	mg/L	0.10	0.033	1	06/16/25 13:42	07/02/25 13:57	7440-42-8	
Calcium, Total Recoverable	**143**	mg/L	0.20	0.045	1	06/16/25 13:42	07/02/25 13:57	7440-70-2	
Magnesium, Total Recoverable	**84.1**	mg/L	0.050	0.021	1	06/16/25 13:42	07/02/25 13:57	7439-95-4	
Potassium, Total Recoverable	**16.1**	mg/L	0.50	0.045	1	06/16/25 13:42	07/02/25 13:57	7440-09-7	
Sodium, Total Recoverable	**4660**	mg/L	10.0	0.64	20	06/16/25 13:42	07/07/25 12:09	7440-23-5	
Total Hardness by 2340B, Total Recoverable	**705**	mg/L	0.50	0.20	1	06/16/25 13:42	07/02/25 13:57		
200.7 Metals, Dissolved	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City								
Magnesium, Dissolved	**79.9**	mg/L	0.050	0.021	1	06/16/25 13:42	07/01/25 18:03	7439-95-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Kansas City								
Lithium, Total Recoverable	**180**	ug/L	10.0	1.8	1	06/18/25 09:34	07/01/25 18:51	7439-93-2	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Aluminum, Total Recoverable	**0.61**	mg/L	0.10	0.016	2	06/16/25 13:42	06/26/25 15:46	7429-90-5	
Arsenic, Total Recoverable	**0.0012J**	mg/L	0.0020	0.00026	2	06/16/25 13:42	06/26/25 15:46	7440-38-2	D3
Barium, Total Recoverable	**0.051**	mg/L	0.0020	0.00043	2	06/16/25 13:42	06/26/25 15:46	7440-39-3	
Cobalt, Total Recoverable	**0.0014J**	mg/L	0.0020	0.00021	2	06/16/25 13:42	06/26/25 15:46	7440-48-4	D3
Iron, Total Recoverable	**0.84**	mg/L	0.10	0.0088	2	06/16/25 13:42	06/26/25 15:46	7439-89-6	
Manganese, Total Recoverable	**0.19**	mg/L	0.0020	0.0010	2	06/16/25 13:42	06/26/25 15:46	7439-96-5	
Molybdenum, Total Recoverable	**0.0017J**	mg/L	0.0030	0.00048	3	06/16/25 13:42	06/27/25 10:42	7439-98-7	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Aluminum, Dissolved	**0.018J**	mg/L	0.10	0.016	2	06/16/25 13:42	06/26/25 16:08	7429-90-5	D3
Arsenic, Dissolved	**0.00072J**	mg/L	0.0020	0.00026	2	06/16/25 13:42	06/26/25 16:08	7440-38-2	D3
Cobalt, Dissolved	**0.00067J**	mg/L	0.0030	0.00031	3	06/16/25 13:42	06/29/25 16:11	7440-48-4	D3,M1
Iron, Dissolved	**0.017J**	mg/L	0.10	0.0088	2	06/16/25 13:42	06/26/25 16:08	7439-89-6	D3
Manganese, Dissolved	**0.17**	mg/L	0.0020	0.0010	2	06/16/25 13:42	06/26/25 16:08	7439-96-5	
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Kansas City								
Alkalinity,Bicarbonate (CaCO3)	**235**	mg/L	20.0	10.5	1		06/16/25 16:52		
Alkalinity,Carbonate (CaCO3)	**<10.5**	mg/L	20.0	10.5	1		06/16/25 16:52		
Alkalinity, Total as CaCO3	**235**	mg/L	20.0	10.5	1		06/16/25 16:52		
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City								
Total Dissolved Solids	**12700**	mg/L	1000	1000	1		06/16/25 17:06		

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ANALYTICAL RESULTS

Project: TECBASA Perimeter DEEP-Revised Report
Pace Project No.: 60477295

Sample: MW-20-061125 **Lab ID: 60477295002** Collected: 06/11/25 14:45 Received: 06/13/25 15:51 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Iron, Ferrous	Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City								
Iron, Ferrous	**0.32**	mg/L	0.20	0.041	1		06/19/25 15:15	15438-31-0	H6
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Kansas City								
pH at 25 Degrees C	**7.0**	Std. Units	0.10	0.10	1		06/16/25 18:31		H3
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		06/17/25 13:46	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City								
Chloride	**7470**	mg/L	1000	765	1000		07/02/25 03:29	16887-00-6	
Fluoride	**<1.6**	mg/L	2.0	1.6	10		07/02/25 03:03	16984-48-8	D3
Sulfate	**1110**	mg/L	100	43.1	100		07/02/25 03:16	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis								
Nitrogen, NO2 plus NO3	**<0.10**	mg/L	0.10	0.013	1		06/25/25 13:25		
365.1 Total Phosphorus	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis								
Phosphorus	**0.12**	mg/L	0.050	0.044	1	06/26/25 09:00	06/28/25 12:46	7723-14-0	B
5310C TOC	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis								
Total Organic Carbon	**<1.0**	mg/L	1.0	0.30	1		06/28/25 06:00	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis								
Dissolved Organic Carbon	**<1.0**	mg/L	1.0	0.30	1		06/28/25 09:13		

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ANALYTICAL RESULTS

Project: TECBASA Perimeter DEEP-Revised Report
Pace Project No.: 60477295

Sample: MW-21-061225 **Lab ID: 60477295003** Collected: 06/12/25 12:40 Received: 06/13/25 15:51 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								
Boron, Total Recoverable	**2.2**	mg/L	0.10	0.033	1	06/16/25 13:42	07/02/25 13:59	7440-42-8	
Calcium, Total Recoverable	**168**	mg/L	0.20	0.045	1	06/16/25 13:42	07/02/25 13:59	7440-70-2	
Magnesium, Total Recoverable	**101**	mg/L	0.050	0.021	1	06/16/25 13:42	07/02/25 13:59	7439-95-4	
Potassium, Total Recoverable	**17.5**	mg/L	0.50	0.045	1	06/16/25 13:42	07/02/25 13:59	7440-09-7	
Sodium, Total Recoverable	**5050**	mg/L	10.0	0.64	20	06/16/25 13:42	07/07/25 12:11	7440-23-5	
Total Hardness by 2340B, Total Recoverable	**835**	mg/L	0.50	0.20	1	06/16/25 13:42	07/02/25 13:59		
200.7 Metals, Dissolved	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City								
Magnesium, Dissolved	**107**	mg/L	0.050	0.021	1	06/16/25 13:42	07/01/25 18:05	7439-95-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Kansas City								
Lithium, Total Recoverable	**212**	ug/L	10.0	1.8	1	06/18/25 09:34	07/01/25 18:58	7439-93-2	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Aluminum, Total Recoverable	**0.12**	mg/L	0.10	0.016	2	06/16/25 13:42	06/26/25 15:54	7429-90-5	
Arsenic, Total Recoverable	**0.0017J**	mg/L	0.0020	0.00026	2	06/16/25 13:42	06/26/25 15:54	7440-38-2	D3
Barium, Total Recoverable	**0.089**	mg/L	0.0020	0.00043	2	06/16/25 13:42	06/26/25 15:54	7440-39-3	
Cobalt, Total Recoverable	**0.0017J**	mg/L	0.0030	0.00031	3	06/16/25 13:42	06/29/25 16:04	7440-48-4	D3
Iron, Total Recoverable	**0.35**	mg/L	0.10	0.0088	2	06/16/25 13:42	06/26/25 15:54	7439-89-6	
Manganese, Total Recoverable	**0.12**	mg/L	0.0020	0.0010	2	06/16/25 13:42	06/26/25 15:54	7439-96-5	
Molybdenum, Total Recoverable	**0.0031**	mg/L	0.0030	0.00048	3	06/16/25 13:42	06/27/25 10:47	7439-98-7	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Aluminum, Dissolved	**<0.016**	mg/L	0.10	0.016	2	06/16/25 13:42	06/26/25 16:30	7429-90-5	D3
Arsenic, Dissolved	**0.0010J**	mg/L	0.0020	0.00026	2	06/16/25 13:42	06/26/25 16:30	7440-38-2	D3
Cobalt, Dissolved	**0.00054J**	mg/L	0.0030	0.00031	3	06/16/25 13:42	06/29/25 16:22	7440-48-4	D3
Iron, Dissolved	**0.038J**	mg/L	0.10	0.0088	2	06/16/25 13:42	06/26/25 16:30	7439-89-6	D3
Manganese, Dissolved	**0.053**	mg/L	0.0020	0.0010	2	06/16/25 13:42	06/26/25 16:30	7439-96-5	
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Kansas City								
Alkalinity,Bicarbonate (CaCO3)	**175**	mg/L	20.0	10.5	1		06/16/25 19:15		
Alkalinity,Carbonate (CaCO3)	**<10.5**	mg/L	20.0	10.5	1		06/16/25 19:15		
Alkalinity, Total as CaCO3	**175**	mg/L	20.0	10.5	1		06/16/25 19:15		
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City								
Total Dissolved Solids	**13400**	mg/L	1000	1000	1		06/16/25 17:07		

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ANALYTICAL RESULTS

Project: TECBASA Perimeter DEEP-Revised Report
Pace Project No.: 60477295

Sample: MW-21-061225 **Lab ID: 60477295003** Collected: 06/12/25 12:40 Received: 06/13/25 15:51 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Iron, Ferrous	Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City								
Iron, Ferrous	**0.044J**	mg/L	0.20	0.041	1		06/19/25 15:15	15438-31-0	H6
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Kansas City								
pH at 25 Degrees C	**7.4**	Std. Units	0.10	0.10	1		06/16/25 18:32		H3
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		06/17/25 13:46	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City								
Chloride	**8270**	mg/L	1000	765	1000		07/02/25 04:34	16887-00-6	
Fluoride	**<1.6**	mg/L	2.0	1.6	10		07/02/25 03:42	16984-48-8	D3
Sulfate	**1160**	mg/L	100	43.1	100		07/02/25 04:21	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis								
Nitrogen, NO2 plus NO3	**5.7**	mg/L	0.20	0.026	2		06/25/25 13:32		
365.1 Total Phosphorus	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis								
Phosphorus	**<0.050**	mg/L	0.050	0.044	1	06/26/25 09:00	06/28/25 12:47	7723-14-0	
5310C TOC	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis								
Total Organic Carbon	**<1.0**	mg/L	1.0	0.30	1		06/28/25 06:52	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis								
Dissolved Organic Carbon	**<1.0**	mg/L	1.0	0.30	1		06/28/25 10:03		

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ANALYTICAL RESULTS

Project: TECBASA Perimeter DEEP-Revised Report
Pace Project No.: 60477295

Sample: MW-22-061225 **Lab ID: 60477295004** Collected: 06/12/25 09:50 Received: 06/13/25 15:51 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								
Boron, Total Recoverable	**2.4**	mg/L	0.10	0.033	1	06/16/25 13:42	07/02/25 14:01	7440-42-8	
Calcium, Total Recoverable	**146**	mg/L	0.20	0.045	1	06/16/25 13:42	07/02/25 14:01	7440-70-2	
Magnesium, Total Recoverable	**80.7**	mg/L	0.050	0.021	1	06/16/25 13:42	07/02/25 14:01	7439-95-4	
Potassium, Total Recoverable	**17.1**	mg/L	0.50	0.045	1	06/16/25 13:42	07/02/25 14:01	7440-09-7	
Sodium, Total Recoverable	**4670**	mg/L	10.0	0.64	20	06/16/25 13:42	07/07/25 12:13	7440-23-5	
Total Hardness by 2340B, Total Recoverable	**696**	mg/L	0.50	0.20	1	06/16/25 13:42	07/02/25 14:01		
200.7 Metals, Dissolved	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City								
Magnesium, Dissolved	**77.5**	mg/L	0.050	0.021	1	06/16/25 13:42	07/01/25 18:07	7439-95-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Kansas City								
Lithium, Total Recoverable	**188**	ug/L	10.0	1.8	1	06/18/25 09:34	07/01/25 19:00	7439-93-2	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Aluminum, Total Recoverable	**0.84**	mg/L	0.10	0.016	2	06/16/25 13:42	06/26/25 15:59	7429-90-5	
Arsenic, Total Recoverable	**0.0018J**	mg/L	0.0020	0.00026	2	06/16/25 13:42	06/26/25 15:59	7440-38-2	D3
Barium, Total Recoverable	**0.081**	mg/L	0.0020	0.00043	2	06/16/25 13:42	06/26/25 15:59	7440-39-3	
Cobalt, Total Recoverable	**0.0017J**	mg/L	0.0030	0.00031	3	06/16/25 13:42	06/29/25 16:07	7440-48-4	D3
Iron, Total Recoverable	**1.0**	mg/L	0.10	0.0088	2	06/16/25 13:42	06/26/25 15:59	7439-89-6	
Manganese, Total Recoverable	**0.16**	mg/L	0.0020	0.0010	2	06/16/25 13:42	06/26/25 15:59	7439-96-5	
Molybdenum, Total Recoverable	**0.0035**	mg/L	0.0030	0.00048	3	06/16/25 13:42	06/27/25 10:49	7439-98-7	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Aluminum, Dissolved	**<0.016**	mg/L	0.10	0.016	2	06/16/25 13:42	06/26/25 16:35	7429-90-5	D3
Arsenic, Dissolved	**0.0012J**	mg/L	0.0020	0.00026	2	06/16/25 13:42	06/26/25 16:35	7440-38-2	D3
Cobalt, Dissolved	**0.0013J**	mg/L	0.0030	0.00031	3	06/16/25 13:42	06/29/25 16:25	7440-48-4	D3
Iron, Dissolved	**0.013J**	mg/L	0.10	0.0088	2	06/16/25 13:42	06/26/25 16:35	7439-89-6	D3
Manganese, Dissolved	**0.14**	mg/L	0.0020	0.0010	2	06/16/25 13:42	06/26/25 16:35	7439-96-5	
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Kansas City								
Alkalinity,Bicarbonate (CaCO3)	**210**	mg/L	20.0	10.5	1		06/16/25 19:30		
Alkalinity,Carbonate (CaCO3)	**<10.5**	mg/L	20.0	10.5	1		06/16/25 19:30		
Alkalinity, Total as CaCO3	**210**	mg/L	20.0	10.5	1		06/16/25 19:30		
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City								
Total Dissolved Solids	**12700**	mg/L	1000	1000	1		06/16/25 17:07		

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ANALYTICAL RESULTS

Project: TECBASA Perimeter DEEP-Revised Report
Pace Project No.: 60477295

Sample: MW-22-061225 **Lab ID: 60477295004** Collected: 06/12/25 09:50 Received: 06/13/25 15:51 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Iron, Ferrous	Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City								
Iron, Ferrous	**0.30**	mg/L	0.20	0.041	1		06/19/25 15:15	15438-31-0	H6
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Kansas City								
pH at 25 Degrees C	**7.2**	Std. Units	0.10	0.10	1		06/16/25 18:31		H3
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D Pace Analytical Services - Kansas City								
Sulfide, Total	**0.034J**	mg/L	0.050	0.016	1		06/17/25 13:46	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City								
Chloride	**7890**	mg/L	1000	765	1000		07/02/25 05:41	16887-00-6	
Fluoride	**<1.6**	mg/L	2.0	1.6	10		07/02/25 04:47	16984-48-8	D3
Sulfate	**1180**	mg/L	100	43.1	100		07/02/25 05:14	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis								
Nitrogen, NO2 plus NO3	**2.8**	mg/L	0.10	0.013	1		06/25/25 13:26		
365.1 Total Phosphorus	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis								
Phosphorus	**0.074**	mg/L	0.050	0.044	1	06/26/25 09:00	06/28/25 12:47	7723-14-0	B
5310C TOC	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis								
Total Organic Carbon	**<1.0**	mg/L	1.0	0.30	1		06/28/25 06:27	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis								
Dissolved Organic Carbon	**<1.0**	mg/L	1.0	0.30	1		06/28/25 09:38		

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QUALITY CONTROL DATA

Project: TECBASA Perimeter DEEP-Revised Report
Pace Project No.: 60477295

QC Batch: 938685
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: 60477295001, 60477295002, 60477295003, 60477295004

METHOD BLANK: 3721689 Matrix: Water
Associated Lab Samples: 60477295001, 60477295002, 60477295003, 60477295004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Boron	mg/L	<0.033	0.10	0.033	07/02/25 13:32	
Calcium	mg/L	<0.045	0.20	0.045	07/02/25 13:32	
Hardness, Total(SM 2340B)	mg/L	<0.20	0.50	0.20	07/02/25 13:32	
Magnesium	mg/L	<0.021	0.050	0.021	07/02/25 13:32	
Potassium	mg/L	<0.045	0.50	0.045	07/02/25 13:32	
Sodium	mg/L	<0.032	0.50	0.032	07/02/25 13:32	

LABORATORY CONTROL SAMPLE: 3721690

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	mg/L	1	0.91	91	85-115	
Calcium	mg/L	10	9.9	99	85-115	
Hardness, Total(SM 2340B)	mg/L	66.2	63.5	96	85-115	
Magnesium	mg/L	10	9.4	94	85-115	
Potassium	mg/L	10	9.6	96	85-115	
Sodium	mg/L	10	9.8	98	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3721691 3721692

Parameter	Units	60477293001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Boron	mg/L	0.95	1	1	1.8	1.9	85	94	70-130	5	20	
Calcium	mg/L	190	10	10	185	192	-54	21	70-130	4	20	M1
Hardness, Total(SM 2340B)	mg/L	714000 ug/L	66.2	66.2	720	749	9	54	70-130	4	20	
Magnesium	mg/L	58.0	10	10	62.7	65.4	47	74	70-130	4	20	M1
Potassium	mg/L	2490 ug/L	10	10	12.3	12.8	98	103	70-130	4	20	
Sodium	mg/L	122000 ug/L	10	10	123	128	5	59	70-130	4	20	M1

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QUALITY CONTROL DATA

Project: TECBASA Perimeter DEEP-Revised Report
Pace Project No.: 60477295

QC Batch: 938693
QC Batch Method: EPA 200.7
Analysis Method: EPA 200.7
Analysis Description: 200.7 Metals, Dissolved
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60477295001, 60477295002, 60477295003, 60477295004

METHOD BLANK: 3721718 Matrix: Water
Associated Lab Samples: 60477295001, 60477295002, 60477295003, 60477295004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Magnesium, Dissolved	mg/L	<0.021	0.050	0.021	07/01/25 17:54	

LABORATORY CONTROL SAMPLE: 3721719

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Magnesium, Dissolved	mg/L	10	9.7	97	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3721720 3721721

Parameter	Units	60477295001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Magnesium, Dissolved	mg/L	105	10	10	112	116	68	102	70-130	3	20	M1

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QUALITY CONTROL DATA

Project: TECBASA Perimeter DEEP-Revised Report
Pace Project No.: 60477295

QC Batch: 938687
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: 60477295001, 60477295002, 60477295003, 60477295004

METHOD BLANK: 3721696 Matrix: Water
Associated Lab Samples: 60477295001, 60477295002, 60477295003, 60477295004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Aluminum	mg/L	<0.0082	0.050	0.0082	06/26/25 12:58	
Arsenic	mg/L	<0.00013	0.0010	0.00013	06/26/25 12:58	
Barium	mg/L	<0.00021	0.0010	0.00021	06/26/25 12:58	
Cobalt	mg/L	<0.00010	0.0010	0.00010	06/26/25 12:58	
Iron	mg/L	0.013J	0.050	0.0044	06/26/25 12:58	
Manganese	mg/L	<0.00052	0.0010	0.00052	06/26/25 12:58	
Molybdenum	mg/L	<0.00016	0.0010	0.00016	06/27/25 10:01	

LABORATORY CONTROL SAMPLE: 3721697

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	mg/L	1	1.0	102	85-115	
Arsenic	mg/L	0.04	0.041	103	85-115	
Barium	mg/L	0.04	0.041	103	85-115	
Cobalt	mg/L	0.04	0.041	103	85-115	
Iron	mg/L	1	1.1	110	85-115	
Manganese	mg/L	0.04	0.041	103	85-115	
Molybdenum	mg/L	0.04	0.042	105	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3721698 3721699

Parameter	Units	60477293002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum	mg/L	318 ug/L	1	1	1.3	1.4	102	104	70-130	2	20	
Arsenic	mg/L	<0.0010	0.04	0.04	0.039	0.039	95	97	70-130	2	20	
Barium	mg/L	0.082	0.04	0.04	0.12	0.12	88	96	70-130	3	20	
Cobalt	mg/L	<0.0010	0.04	0.04	0.037	0.038	92	94	70-130	2	20	
Iron	mg/L	493 ug/L	1	1	1.5	1.5	98	100	70-130	1	20	
Manganese	mg/L	112 ug/L	0.04	0.04	0.14	0.15	77	87	70-130	3	20	
Molybdenum	mg/L	<0.0010	0.04	0.04	0.041	0.041	101	102	70-130	1	20	

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QUALITY CONTROL DATA

Project: TECBASA Perimeter DEEP-Revised Report
Pace Project No.: 60477295

QC Batch: 938694
QC Batch Method: EPA 200.8
Analysis Method: EPA 200.8
Analysis Description: 200.8 MET Dissolved
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60477295001, 60477295002, 60477295003, 60477295004

METHOD BLANK: 3721722 Matrix: Water
Associated Lab Samples: 60477295001, 60477295002, 60477295003, 60477295004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Aluminum, Dissolved	mg/L	<0.0082	0.050	0.0082	06/29/25 16:01	
Arsenic, Dissolved	mg/L	<0.00013	0.0010	0.00013	06/26/25 14:01	
Cobalt, Dissolved	mg/L	<0.00010	0.0010	0.00010	06/29/25 16:01	
Iron, Dissolved	mg/L	<0.0044	0.050	0.0044	06/26/25 14:01	
Manganese, Dissolved	mg/L	<0.00052	0.0010	0.00052	06/26/25 14:01	

LABORATORY CONTROL SAMPLE: 3721723

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	mg/L	1	0.98	98	85-115	
Arsenic, Dissolved	mg/L	0.04	0.040	100	85-115	
Cobalt, Dissolved	mg/L	0.04	0.039	99	85-115	
Iron, Dissolved	mg/L	1	1.0	102	85-115	
Manganese, Dissolved	mg/L	0.04	0.040	100	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3721724 3721725

Parameter	Units	60477295002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum, Dissolved	mg/L	0.018J	1	1	1.2	1.2	115	115	70-130	0	20	
Arsenic, Dissolved	mg/L	0.00072J	0.04	0.04	0.037	0.037	92	90	70-130	1	20	
Cobalt, Dissolved	mg/L	0.00067J	0.04	0.04	0.026	0.026	64	63	70-130	1	20	M1
Iron, Dissolved	mg/L	0.017J	1	1	1.1	1.1	111	108	70-130	3	20	
Manganese, Dissolved	mg/L	0.17	0.04	0.04	0.21	0.21	98	98	70-130	0	20	

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QUALITY CONTROL DATA

Project: TECBASA Perimeter DEEP-Revised Report
Pace Project No.: 60477295

QC Batch: 938960
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60477295001, 60477295002, 60477295003, 60477295004

METHOD BLANK: 3722644 Matrix: Water
Associated Lab Samples: 60477295001, 60477295002, 60477295003, 60477295004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Lithium	ug/L	<1.8	10.0	1.8	07/01/25 18:14	

LABORATORY CONTROL SAMPLE: 3722645

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lithium	ug/L	1000	988	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3722646 3722647

Parameter	Units	60477292001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lithium	ug/L	33.7	1000	1000	1030	981	100	95	75-125	5	20	

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QUALITY CONTROL DATA

Project: TECBASA Perimeter DEEP-Revised Report
Pace Project No.: 60477295

QC Batch: 938725
QC Batch Method: SM 2320B
Analysis Method: SM 2320B
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60477295001, 60477295002

METHOD BLANK: 3721811 Matrix: Water
Associated Lab Samples: 60477295001, 60477295002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<10.5	20.0	10.5	06/16/25 16:09	
Alkalinity,Bicarbonate (CaCO3)	mg/L	<10.5	20.0	10.5	06/16/25 16:09	
Alkalinity,Carbonate (CaCO3)	mg/L	<10.5	20.0	10.5	06/16/25 16:09	

LABORATORY CONTROL SAMPLE: 3721812

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	500	483	97	90-110	

SAMPLE DUPLICATE: 3721813

Parameter	Units	60477292004 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	497	493	1	10	
Alkalinity,Bicarbonate (CaCO3)	mg/L	497	493	1	10	
Alkalinity,Carbonate (CaCO3)	mg/L	<10.5	<10.5		10	

SAMPLE DUPLICATE: 3721814

Parameter	Units	60477304003 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	31.0	32.0	3	10	
Alkalinity,Bicarbonate (CaCO3)	mg/L	31.0	32.0	3	10	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	<10.5		10	

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QUALITY CONTROL DATA

Project: TECBASA Perimeter DEEP-Revised Report
Pace Project No.: 60477295

QC Batch: 938726
QC Batch Method: SM 2320B
Analysis Method: SM 2320B
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60477295003, 60477295004

METHOD BLANK: 3721815 Matrix: Water
Associated Lab Samples: 60477295003, 60477295004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<10.5	20.0	10.5	06/16/25 19:01	
Alkalinity,Bicarbonate (CaCO3)	mg/L	<10.5	20.0	10.5	06/16/25 19:01	
Alkalinity,Carbonate (CaCO3)	mg/L	<10.5	20.0	10.5	06/16/25 19:01	

LABORATORY CONTROL SAMPLE: 3721816

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	500	479	96	90-110	

SAMPLE DUPLICATE: 3721817

Parameter	Units	60477295003 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	175	170	3	10	
Alkalinity,Bicarbonate (CaCO3)	mg/L	175	170	3	10	
Alkalinity,Carbonate (CaCO3)	mg/L	<10.5	<10.5		10	

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QUALITY CONTROL DATA

Project: TECBASA Perimeter DEEP-Revised Report
Pace Project No.: 60477295

QC Batch: 938620
QC Batch Method: SM 2540C
Analysis Method: SM 2540C
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60477295001, 60477295002, 60477295003, 60477295004

METHOD BLANK: 3721461 Matrix: Water
Associated Lab Samples: 60477295001, 60477295002, 60477295003, 60477295004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<5.0	5.0	5.0	06/16/25 17:05	

LABORATORY CONTROL SAMPLE: 3721462

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	1000	980	98	80-120	

SAMPLE DUPLICATE: 3721463

Parameter	Units	60476939001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	278	274	1	10	

SAMPLE DUPLICATE: 3721464

Parameter	Units	60477292001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1030	1020	1	10	

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QUALITY CONTROL DATA

Project: TECBASA Perimeter DEEP-Revised Report
Pace Project No.: 60477295

QC Batch: 939104
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: 60477295001, 60477295002, 60477295003, 60477295004

METHOD BLANK: 3723201 Matrix: Water
Associated Lab Samples: 60477295001, 60477295002, 60477295003, 60477295004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Iron, Ferrous	mg/L	<0.041	0.20	0.041	06/19/25 15:15	H6

LABORATORY CONTROL SAMPLE: 3723202

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Ferrous	mg/L	2	2.0	101	90-110	H6

SAMPLE DUPLICATE: 3723203

Parameter	Units	60477292005 Result	Dup Result	RPD	Max RPD	Qualifiers
Iron, Ferrous	mg/L	22.8	22.7	0	20	H6

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QUALITY CONTROL DATA

Project: TECBASA Perimeter DEEP-Revised Report
Pace Project No.: 60477295

QC Batch: 938749
QC Batch Method: SM 4500-H+B
Analysis Method: SM 4500-H+B
Analysis Description: 4500H+B pH
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60477295001, 60477295002, 60477295003, 60477295004

SAMPLE DUPLICATE: 3721882

Parameter	Units	60477292005 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	6.4	6.4	1	5	H3

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QUALITY CONTROL DATA

Project: TECBASA Perimeter DEEP-Revised Report
Pace Project No.: 60477295

QC Batch: 938793
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: 60477295001, 60477295002, 60477295003, 60477295004

METHOD BLANK: 3722004 Matrix: Water
Associated Lab Samples: 60477295001, 60477295002, 60477295003, 60477295004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide, Total	mg/L	<0.016	0.050	0.016	06/17/25 13:46	

LABORATORY CONTROL SAMPLE: 3722005

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	0.5	0.53	107	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3722007 3722008

Parameter	Units	60477292004 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	0.061	0.5	0.5	0.25	0.27	39	42	75-125	6	20	M1

SAMPLE DUPLICATE: 3722006

Parameter	Units	60477292004 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	0.061	0.069	12	20	

SAMPLE DUPLICATE: 3722009

Parameter	Units	60477292005 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	1.3	1.2	1	20	

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QUALITY CONTROL DATA

Project: TECBASA Perimeter DEEP-Revised Report
Pace Project No.: 60477295

QC Batch: 940069
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: 60477295001, 60477295002, 60477295003, 60477295004

METHOD BLANK: 3727003 Matrix: Water
Associated Lab Samples: 60477295001, 60477295002, 60477295003, 60477295004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	<0.77	1.0	0.77	07/01/25 20:57	
Fluoride	mg/L	<0.16	0.20	0.16	07/01/25 20:57	
Sulfate	mg/L	<0.43	1.0	0.43	07/01/25 20:57	

LABORATORY CONTROL SAMPLE: 3727004

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.9	98	90-110	
Fluoride	mg/L	2.5	2.6	105	90-110	
Sulfate	mg/L	5	5.0	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3727005 3727006

Parameter	Units	60477293001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	51.2	250	250	294	293	97	97	80-120	0	15	
Fluoride	mg/L	0.31	2.5	2.5	2.9	2.9	104	104	80-120	0	15	
Sulfate	mg/L	244	250	250	499	502	102	103	80-120	1	15	

MATRIX SPIKE SAMPLE: 3727007

Parameter	Units	60477295004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	7890	5000	12400	90	80-120	
Fluoride	mg/L	<1.6	25	20.6	82	80-120	
Sulfate	mg/L	1180	500	1680	101	80-120	

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QUALITY CONTROL DATA

Project: TECBASA Perimeter DEEP-Revised Report
Pace Project No.: 60477295

QC Batch: 850893
QC Batch Method: EPA 353.2
Analysis Method: EPA 353.2
Analysis Description: 353.2 Nitrate + Nitrite, preserved
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 60477295001, 60477295002, 60477295003, 60477295004

METHOD BLANK: 3897310 Matrix: Water
Associated Lab Samples: 60477295001, 60477295002, 60477295003, 60477295004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	<0.10	0.10	0.013	06/25/25 12:49	

LABORATORY CONTROL SAMPLE: 3897311

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2	2.0	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3897312 3897313

Parameter	Units	50404572002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	2.6	2	2	4.5	4.5	99	99	90-110	0	20	

MATRIX SPIKE SAMPLE: 3897314

Parameter	Units	50404572003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	1.7	2	3.7	102	90-110	

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QUALITY CONTROL DATA

Project: TECBASA Perimeter DEEP-Revised Report
Pace Project No.: 60477295

QC Batch: 851022
QC Batch Method: EPA 365.1
Analysis Method: EPA 365.1
Analysis Description: 365.1 Total Phosphorus
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 60477295001, 60477295002, 60477295003, 60477295004

METHOD BLANK: 3897886 Matrix: Water
Associated Lab Samples: 60477295001, 60477295002, 60477295003, 60477295004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Phosphorus	mg/L	0.060	0.050	0.044	06/28/25 12:39	B

LABORATORY CONTROL SAMPLE: 3897887

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphorus	mg/L	0.5	0.54	108	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3897888 3897889

Parameter	Units	60477120001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phosphorus	mg/L	0.87	0.5	0.5	1.4	1.4	100	111	90-110	4	20	M0

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QUALITY CONTROL DATA

Project: TECBASA Perimeter DEEP-Revised Report
Pace Project No.: 60477295

QC Batch: 850511
QC Batch Method: SM 5310C
Analysis Method: SM 5310C
Analysis Description: 5310C Total Organic Carbon
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 60477295001, 60477295002, 60477295003, 60477295004

METHOD BLANK: 3895950 Matrix: Water
Associated Lab Samples: 60477295001, 60477295002, 60477295003, 60477295004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Organic Carbon	mg/L	<1.0	1.0	0.30	06/28/25 03:44	

LABORATORY CONTROL SAMPLE: 3895951

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	10	10.0	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3895952 3895953

Parameter	Units	50404472006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	58.4	10	10	67.2	67.6	88	92	80-120	1	15	

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QUALITY CONTROL DATA

Project: TECBASA Perimeter DEEP-Revised Report
Pace Project No.: 60477295

QC Batch: 850512
QC Batch Method: SM 5310C
Analysis Method: SM 5310C
Analysis Description: 5310C Dissolved Organic Carbon
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 60477295001, 60477295002, 60477295003, 60477295004

METHOD BLANK: 3895954 Matrix: Water
Associated Lab Samples: 60477295001, 60477295002, 60477295003, 60477295004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Dissolved Organic Carbon	mg/L	<1.0	1.0	0.30	06/28/25 08:27	

LABORATORY CONTROL SAMPLE: 3895955

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	10	10	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3895956 3895957

Parameter	Units	10738806006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Dissolved Organic Carbon	mg/L	8.0	10	10	19.6	19.2	116	112	80-120	2	15	

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QUALIFIERS

Project: TECBASA Perimeter DEEP-Revised Report
Pace Project No.: 60477295

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.

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BATCH QUALIFIERS

Batch: 851459

[B0]	Analyte was detected in an associated blank at a concentration greater than the MDL.

ANALYTE QUALIFIERS

B	Analyte was detected in the associated method blank.
D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
H3	Sample was received or analysis requested beyond the recognized method holding time.
H6	Analysis initiated outside of the 15 minute EPA required holding time.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside 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.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: TECBASA Perimeter DEEP-Revised Report
Pace Project No.: 60477295

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60477295001	**MW-12D-061225**	EPA 200.7	938685	EPA 200.7	938706
60477295002	**MW-20-061125**	EPA 200.7	938685	EPA 200.7	938706
60477295003	**MW-21-061225**	EPA 200.7	938685	EPA 200.7	938706
60477295004	**MW-22-061225**	EPA 200.7	938685	EPA 200.7	938706
60477295001	**MW-12D-061225**	EPA 200.7	938693	EPA 200.7	938708
60477295002	**MW-20-061125**	EPA 200.7	938693	EPA 200.7	938708
60477295003	**MW-21-061225**	EPA 200.7	938693	EPA 200.7	938708
60477295004	**MW-22-061225**	EPA 200.7	938693	EPA 200.7	938708
60477295001	**MW-12D-061225**	EPA 3010	938960	EPA 6010	938994
60477295002	**MW-20-061125**	EPA 3010	938960	EPA 6010	938994
60477295003	**MW-21-061225**	EPA 3010	938960	EPA 6010	938994
60477295004	**MW-22-061225**	EPA 3010	938960	EPA 6010	938994
60477295001	**MW-12D-061225**	EPA 200.8	938687	EPA 200.8	938707
60477295002	**MW-20-061125**	EPA 200.8	938687	EPA 200.8	938707
60477295003	**MW-21-061225**	EPA 200.8	938687	EPA 200.8	938707
60477295004	**MW-22-061225**	EPA 200.8	938687	EPA 200.8	938707
60477295001	**MW-12D-061225**	EPA 200.8	938694	EPA 200.8	938709
60477295002	**MW-20-061125**	EPA 200.8	938694	EPA 200.8	938709
60477295003	**MW-21-061225**	EPA 200.8	938694	EPA 200.8	938709
60477295004	**MW-22-061225**	EPA 200.8	938694	EPA 200.8	938709
60477295001	**MW-12D-061225**	SM 2320B	938725		
60477295002	**MW-20-061125**	SM 2320B	938725		
60477295003	**MW-21-061225**	SM 2320B	938726		
60477295004	**MW-22-061225**	SM 2320B	938726		
60477295001	**MW-12D-061225**	SM 2540C	938620		
60477295002	**MW-20-061125**	SM 2540C	938620		
60477295003	**MW-21-061225**	SM 2540C	938620		
60477295004	**MW-22-061225**	SM 2540C	938620		
60477295001	**MW-12D-061225**	SM 3500-Fe B#4	939104		
60477295002	**MW-20-061125**	SM 3500-Fe B#4	939104		
60477295003	**MW-21-061225**	SM 3500-Fe B#4	939104		
60477295004	**MW-22-061225**	SM 3500-Fe B#4	939104		
60477295001	**MW-12D-061225**	SM 4500-H+B	938749		
60477295002	**MW-20-061125**	SM 4500-H+B	938749		
60477295003	**MW-21-061225**	SM 4500-H+B	938749		
60477295004	**MW-22-061225**	SM 4500-H+B	938749		
60477295001	**MW-12D-061225**	SM 4500-S-2 D	938793		
60477295002	**MW-20-061125**	SM 4500-S-2 D	938793		
60477295003	**MW-21-061225**	SM 4500-S-2 D	938793		
60477295004	**MW-22-061225**	SM 4500-S-2 D	938793		
60477295001	**MW-12D-061225**	EPA 300.0	940069		
60477295002	**MW-20-061125**	EPA 300.0	940069		
60477295003	**MW-21-061225**	EPA 300.0	940069		

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: TECBASA Perimeter DEEP-Revised Report
Pace Project No.: 60477295

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60477295004	**MW-22-061225**	EPA 300.0	940069		
60477295001	**MW-12D-061225**	EPA 353.2	850893		
60477295002	**MW-20-061125**	EPA 353.2	850893		
60477295003	**MW-21-061225**	EPA 353.2	850893		
60477295004	**MW-22-061225**	EPA 353.2	850893		
60477295001	**MW-12D-061225**	EPA 365.1	851022	EPA 365.1	851459
60477295002	**MW-20-061125**	EPA 365.1	851022	EPA 365.1	851459
60477295003	**MW-21-061225**	EPA 365.1	851022	EPA 365.1	851459
60477295004	**MW-22-061225**	EPA 365.1	851022	EPA 365.1	851459
60477295001	**MW-12D-061225**	SM 5310C	850511		
60477295002	**MW-20-061125**	SM 5310C	850511		
60477295003	**MW-21-061225**	SM 5310C	850511		
60477295004	**MW-22-061225**	SM 5310C	850511		
60477295001	**MW-12D-061225**	SM 5310C	850512		
60477295002	**MW-20-061125**	SM 5310C	850512		
60477295003	**MW-21-061225**	SM 5310C	850512		
60477295004	**MW-22-061225**	SM 5310C	850512		

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WO# : 60477295

60477295

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

Client Name: Evergy

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** 5.4 **Corr. Factor** +0.1 **Corrected** 5.5

Date and initials of person examining contents: DF 4/14

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#:** 96588	☑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

L0977295

Scan QR Code for instructions

Company Name:	Evergy Kansas Central, Inc.	Contact/Report To:	Jake Humphrey
Street Address:	818 S Kansas Avenue Topeka, KS 66612	Phone #:	(913)634-0605
		E-Mail:	jake.humphrey@evergy.com
		Cc E-Mail:	skaney@haleyaldrich.com
Customer Project #:			
Project Name:	TEC BASA PERIMETER - DEEP	Invoice To:	Tecumseh Center
		Invoice E-Mail:	evergyap@onlinecapturecenter.com
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	WSTR-2000094802
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [X] CT [ ] ET

County / State origin of sample(s): Kansas

Data Deliverables:
[ ] Level II [ ] Level III [ ] Level IV
[ ] EQUIS
[ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [ ] Yes [X] No

Rush (Pre-approval required):
[ ] Same Day [ ] 1 Day [ ] 2 Day [ ] 3 Day [ ] Other _____

DW PWSID # or WW Permit # as applicable: NA

Date Results Requested:

Field Filtered (if applicable): [X] Yes [ ] No
Analysis: Metals, Dissolved; DOC

* 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	200.7/200.8 Diss Metals	200.7/200.8/6010 Total Metals	2320B Alkalinity	2540C Total Dissolved Solids	300.0 Cl,F,SO4,pH	4500S2D Sulfide, Total	5310C Dissolved Organic Carbon	5310C TOC	Iron, Ferrous	NO2NO3, Total Phosphorus	Sample Comment
Specify Container Size **										2	3	3	2	3	3	3	3	6	3	
Identify Container Preservative Type***										2	2	1	1	1	5,6	3	3	4	3	
MW-12D-061225	GW	Grab	-	-	6/12/2025	1445	11	-	-	X	X	X	X	X	X	X	X	X	X	
MW-20-061125	GW	Grab	-	-	6/11/2025	1445	11	-	-	X	X	X	X	X	X	X	X	X	X	
MW-21-061225	GW	Grab	-	-	6/12/2025	1240	11	-	-	X	X	X	X	X	X	X	X	X	X	
MW-22-061225	GW	Grab	-	-	6/12/2025	950	11	-	-	X	X	X	X	X	X	X	X	X	X	

**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: Alice Spiller
AcctNum / Client ID:
Table #:
Profile / Template: 16502
Prelog / Bottle Ord. ID: EZ 3266661

Preservation non-conformance identified for sample.

Additional Instructions from Pace®:
Total Metals; B,Ca,As,Ba,Co,Li,Mo,Mg,Na,k,Al,Fe,Mn,Hardness
Dissolved Metals; As,Co,Fe,Al,Mg,Mn

Collected By:
(Printed Name) Jason R. Franks
Signature: Jason R. Franks

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)	On Ice:
				5.7	

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
Jason R. Franks / SCS	06/13/2025 / 15:00	DF PCLC	6/13 1551	
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 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/

Client: Evergy Profile/EZ # EZ 326eeeeee1

Site: TEC BASA Perimeter - DEEP 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	1			1					
2													2							1	2		1	1			1					
3													2							1	2		1	1			1					
4													2							1	2		1	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: 60477295

Internal Transfer Chain of Custody

50404858

Pace

☐ Rush Multiplier_____X
☒ Samples Pre-Logged into eCOC

State Of Origin: KS
Cert. Needed: ☒ Yes ☐ No

Workorder: 60477295 **Workorder Name:** TECBASA Perimeter DEEP

Owner Received Date: 6/13/2025 **Results Requested By:** 6/30/2025

Report To	Subcontract To
Alice Spiller Pace Analytical Kansas 9608 Loiret Blvd. Lenexa, KS 66219 Phone (913)599-5665	Pace Analytical Indianapolis 7726 Moller Road Indianapolis, IN 46268 Phone (317)875-5894

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers: H2SO4						353.2 NO2/NO3	365 Total Phosphorus	5310 Dissolved Organic Carbon / FF	5310 Total Organic Carbon									LAB USE ONLY
1	MW-12D-061225	PS	6/12/2025 14:45	60477295001	Water	2						X	X	X	X									
2	MW-20-061125	PS	6/11/2025 14:45	60477295002	Water	2						X	X	X	X									
3	MW-21-061225	PS	6/12/2025 12:40	60477295003	Water	2						X	X	X	X									
4	MW-22-061225	PS	6/12/2025 09:50	60477295004	Water	2						X	X	X	X									
5																								

Requested Analysis

Comments

Transfers	Released By	Date/Time	Received By	Date/Time
1			Fedex	
2	Fedex	6-18 8:40	PACE Makaela K.	6-18 8:40
3				

Cooler Temperature on Receipt 2.0 °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.*

Pace

SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: 6-18-25 11:50 MHF

1. Thermometer: 1 2 3 4 5 6 (7) 8 9 A B C D E F G H I

2. Cooler Temperature(s): (Initial/Corrected) 2.0/2.0 | | | |

RECORD TEMPS OF ALL COOLERS RECEIVED (use Comments below to add more)

3. Was the PM notified of out of temp cooler?: (leave blank if samples are in temp) Yes No

Cooler temp should be above freezing to 6°C

If the PM was contacted in the comments below please write how they instructed the project to proceed

3. Packing Material: (Bubble Wrap) (Bubble Bags) None Other _____

4. Ice Type: (Wet) Blue None

5. Courier: (Fed Ex) UPS Client Pace Now/Jett Other

6. Custody Seal on Cooler/Box Present: (Yes) No

(If yes)Seals Intact: (Yes) No (leave blank if no seals were present)

All discrepancies will be written out in the comments section below.

	Yes	No
USDA Regulated Soils? (HI, ID, NY, WA, OR,CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		✓
Short Hold Time Analysis (48 hours or less)? Analysis:		✓
Time 5035A TC placed in Freezer or Short Holds To Lab	Time:	
Rush TAT Requested (4 days or less):		✓
Custody Signatures Present?		✓
Containers Intact?:	✓	
Sample Label (IDs/Dates/Times) Match COC?: except TCs, which only require sample ID	✓	
Comments:		

	Yes	No	N/A
All containers needing acid/base preservation have been pH CHECKED?: Exceptions: VOA, coliform, LLHg, O&G, RAD CHEM, and any container with a septum cap or preserved with HCl. Circle: HNO3 (<2) H2SO4 (<2) NaOH (>10) NaOH/ZnAc (>9) Any non-conformance to pH recommendations will be noted on the container count form	✓		
	Present	Absent	N/A
Residual Chlorine Check (SVOC 625 Pest/PCB 608)			✓
Residual Chlorine Check (Total/Amenable/Free Cyanide)			✓
	Present	Absent	No VOA Vials Sent
Headspace in VOA Vials (>6mm): See Containter Count form for details			✓
Trip Blank Present?		✓	
Trip Blank Custody Seals?:			✓
Extra labels on Terracore Vials? (soils only)			✓

OC PAGE ____ of ____

Sample Container Count

** Place a PINK dot on containers that are out of conformance **

OC Line Item	WGFU	WGKU	BG1U	MeOH (only) / SBS / DI / R	DG9H	VG9H	VOA VIAL HS (>6mm)	VG9U	DG9U	VG9T	AMBER GLASS: AG0U	AG1H	AG1U	AG3U	AG3S	AG3SF	AG3B	PLASTIC: BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	OTHER: CG3H	CG3F	Syringe Kit		Matrix	Nitric Red HNO3 <2	Sulfuric Yellow H2SO4 <2	Sodium Hydroxide Green NaOH >10	Sodium Hydroxide/ ZnAc Black NaOH/Zn Ac >9
1															2																wl		✓		
2															↓																↓		↓		
3																																			
4															↓																↓		↓		
5																																			
6																																			
7																																			
8																																			
9																																			
0																																			
1																																			
2																																			

ntainer Codes

Glass

9H	40mL HCl amber voa vial	BG1T	1L Na Thiosulfate clear glass	BP1B	1L NaOH plastic
9P	40mL TSP amber vial	BG1U	1L unpreserved glass	BP1N	1L HNO3 plastic
9S	40mL H2SO4 amber vial	CG3H	250mL HCl Clear Glass	BP1S	1L H2SO4 plastic
9T	40mL Na Thio amber vial	CG3U	250mL Unpres Clear Glass	BP1U	1L unpreserved plastic
9U	40mL unpreserved amber vial	AG0U	100mL unpres amber glass	BP1Z	1L NaOH, Zn, Ac
9H	40mL HCl clear vial	AG1H	1L HCl amber glass	BP2N	500mL HNO3 plastic
9T	40mL Na Thio. clear vial	AG1S	1L H2SO4 amber glass	BP2C	500mL NaOH plastic
9U	40mL unpreserved clear vial	AG1T	1L Na Thiosulfate amber glass	BP2S	500mL H2SO4 plastic
	40mL w/hexane wipe vial	AG1U	1liter unpres amber glass	BP2U	500mL unpreserved plastic
KU	8oz unpreserved clear jar	AG2N	500mL HNO3 amber glass	BP2Z	500mL NaOH, Zn Ac
FU	4oz clear soil jar	AG2S	500mL H2SO4 amber glass	BP3B	250mL NaOH plastic
U	4oz unpreserved amber wide	AG2U	500mL unpres amber glass	BP3N	250mL HNO3 plastic
3H	250mL clear glass HCl	AG3S	250mL H2SO4 amber glass	BP3F	250mL HNO3 plastic-field filtered
F	250mL clear glass HCl, Field Filter	AG3SF	250mL H2SO4 amb glass -field filtered	BP3U	250mL unpreserved plastic
H	1L HCl clear glass	AG3U	250mL unpres amber glass	BP3S	250mL H2SO4 plastic
S	1L H2SO4 clear glass	AG3B	250mL NaOH amber glass	BP3Z	250mL NaOH, ZnAc plastic

Plastic

NT3U	Non Teflon 250mL unpreserved plastic
BP4U	125mL unpreserved plastic
BP4N	125mL HNO3 plastic
BP4S	125mL H2SO4 plastic

Miscellaneous

Syringe Kit	LL Cr+6 sampling kit
ZPLC	Ziploc Bag
R	Terracore Kit
SP5T	120mL Coliform Sodium Thiosulfate
GN	General Container
U	Summa Can (air sample)
WT	Water
SL	Solid
OL:	Oil
NAL	Non-aqueous liquid
WP	Wipe

INTER_LABORATORY WORK ORDER # 60477295

(To be completed by sending lab)

Ship To:
Pace Analytical Indianapolis
7726 Moller Road
Indianapolis, IN 46268
Phone (317)875-5894

Sending Project No:	60477295
Receiving Project No:	
Check Box for Consolidated Invoice:	☐
Date Prepared:	06/17/25
REQUESTED COMPLETION DATE:	**6/30/2025**

Sending Region	IR60-Kansas	Sending Project Mgr.	Alice Spiller
Receiving Region	IR50-Indianapolis	External Client	Evergy_Haley & Aldrich
State of Sample Origin	KS	QC Deliverable	STD REPORT

All questions should be addressed to sending project manager.

Requested Reportable Units _____ Report Wet or Dry Weight? _____ ☐ IRWO Lab Need to run? Cert. Needed Yes

WORK REQUESTED

Method Description	Container Type	Quantity of containers	Preservative	Quantity of Samples	Acode	Acode Desc
353.2 NO2/NO3	AG3S	2	H2SO4	4	SI-21WET0	SUB PASI WTA
365 Total Phosphorus				4	SI-21WET0	SUB PASI WTA
5310 Total Organic Carbon				4	SI-21WET0	SUB PASI WTA
5310 Dissolved Organic Carbon / FF	AG3S	2	H2SO4	4	SI-21WET0	SUB PASI WTA

Special Requirements: Report C, QC Limits (C),Haley & Aldrich Equis (230),PEG Level BR (497)

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.

LENEXA LOCATION: 6090-R17-S4B for AG3S and Filtered AG3S

ATTACHMENT 2-4
September 2025 Semiannual Sampling Event
Laboratory Analytical Report

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

October 02, 2025

Jake Humphrey
Evergy, Inc.
818 S Kansas Avenue
Topeka, KS 66612

RE: Project: TEC BASA Perimeter Deep
Pace Project No.: 60482367

Dear Jake Humphrey:

Enclosed are the analytical results for sample(s) received by the laboratory on September 12, 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,

Alice Spiller

Alice Spiller
alice.spiller@pacelabs.com
(913)599-5665
PM Lab Management

Enclosures

cc: Jordan Eichman, Haley & Aldrich, Inc.
Samantha Kaney, Haley & Aldrich
Melanie Satanek, Haley & Aldrich, Inc.
Adriana Sosa, Haley & Aldrich, Inc.
Nick Williams, Haley Aldrich

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

CERTIFICATIONS

Project: TEC BASA Perimeter Deep
Pace Project No.: 60482367

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

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(913)599-5665

SAMPLE SUMMARY

Project: TEC BASA Perimeter Deep
Pace Project No.: 60482367

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60482367001	**MW-12D-091225**	Water	09/12/25 12:35	09/12/25 16:55
60482367002	**MW-20-091125**	Water	09/12/25 14:10	09/12/25 16:55
60482367003	**MW-21-091125**	Water	09/12/25 09:50	09/12/25 16:55
60482367004	**MW-22-091125**	Water	09/12/25 13:35	09/12/25 16:55

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SAMPLE ANALYTE COUNT

Project: TEC BASA Perimeter Deep
Pace Project No.: 60482367

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60482367001	**MW-12D-091225**	EPA 200.7	ARMN	6	PASI-K
		EPA 200.7	ARMN	1	PASI-K
		EPA 6010	ARMN	1	PASI-K
		EPA 200.8	CJM	10	PASI-K
		EPA 200.8	CJM	5	PASI-K
		SM 2320B	EMB	3	PASI-K
		SM 2540C	CAR	1	PASI-K
		SM 3500-Fe B#4	IED	1	PASI-K
		SM 4500-H+B	EMB	1	PASI-K
		SM 4500-S-2 D	IED	1	PASI-K
		EPA 300.0	GTS	2	PASI-K
		EPA 300.0	GTS	3	PASI-K
		EPA 365.4	AKK	1	PASI-K
		SM 5310C	EMB	1	PASI-K
		SM 5310C	EMB	1	PASI-K
60482367002	**MW-20-091125**	EPA 200.7	ARMN	6	PASI-K
		EPA 200.7	ARMN	1	PASI-K
		EPA 6010	ARMN	1	PASI-K
		EPA 200.8	CJM	10	PASI-K
		EPA 200.8	CJM	5	PASI-K
		SM 2320B	EMB	3	PASI-K
		SM 2540C	CAR	1	PASI-K
		SM 3500-Fe B#4	IED	1	PASI-K
		SM 4500-H+B	EMB	1	PASI-K
		SM 4500-S-2 D	IED	1	PASI-K
		EPA 300.0	GTS	2	PASI-K
		EPA 300.0	GTS, PL	3	PASI-K
		EPA 365.4	AKK	1	PASI-K
		SM 5310C	EMB	1	PASI-K
		SM 5310C	EMB	1	PASI-K
60482367003	**MW-21-091125**	EPA 200.7	ARMN	6	PASI-K
		EPA 200.7	ARMN	1	PASI-K
		EPA 6010	ARMN	1	PASI-K
		EPA 200.8	CJM	10	PASI-K
		EPA 200.8	CJM	5	PASI-K
		SM 2320B	EMB	3	PASI-K
		SM 2540C	CAR	1	PASI-K

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: TEC BASA Perimeter Deep
Pace Project No.: 60482367

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 3500-Fe B#4	IED	1	PASI-K
		SM 4500-H+B	EMB	1	PASI-K
		SM 4500-S-2 D	IED	1	PASI-K
		EPA 300.0	GTS	2	PASI-K
		EPA 300.0	GTS	3	PASI-K
		EPA 365.4	AKK	1	PASI-K
		SM 5310C	EMB	1	PASI-K
		SM 5310C	EMB	1	PASI-K
60482367004	**MW-22-091125**	EPA 200.7	ARMN	6	PASI-K
		EPA 200.7	ARMN	1	PASI-K
		EPA 6010	ARMN	1	PASI-K
		EPA 200.8	CJM	10	PASI-K
		EPA 200.8	CJM	5	PASI-K
		SM 2320B	EMB	3	PASI-K
		SM 2540C	CAR	1	PASI-K
		SM 3500-Fe B#4	IED	1	PASI-K
		SM 4500-H+B	EMB	1	PASI-K
		SM 4500-S-2 D	IED	1	PASI-K
		EPA 300.0	GTS	2	PASI-K
		EPA 300.0	GTS	3	PASI-K
		EPA 365.4	AKK	1	PASI-K
		SM 5310C	EMB	1	PASI-K
		SM 5310C	EMB	1	PASI-K

PASI-K = Pace Analytical Services - Kansas City

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PROJECT NARRATIVE

Project: TEC BASA Perimeter Deep
Pace Project No.: 60482367

Method: **EPA 200.7**
Description: 200.7 Metals, Total
Client: Evergy_Haley & Aldrich
Date: October 02, 2025

General Information:
4 samples were analyzed for EPA 200.7 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 200.7 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 948292

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60482240003,60482367001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 3758572)
  - Boron
  - Calcium
  - Magnesium
  - Potassium
  - Sodium
- MS (Lab ID: 3758574)
  - Boron
  - Calcium
  - Magnesium
  - Potassium
  - Sodium
- MSD (Lab ID: 3758573)
  - Boron
  - Calcium

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PROJECT NARRATIVE

Project: TEC BASA Perimeter Deep
Pace Project No.: 60482367

Method: **EPA 200.7**
Description: 200.7 Metals, Total
Client: Evergy_Haley & Aldrich
Date: October 02, 2025

QC Batch: 948292

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60482240003,60482367001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- Magnesium
- Potassium

R1: RPD value was outside control limits.

- MSD (Lab ID: 3758573)
  - Calcium
  - Magnesium
  - Sodium

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA Perimeter Deep
Pace Project No.: 60482367

Method: **EPA 200.7**
Description: 200.7 Metals, Dissolved
Client: Evergy_Haley & Aldrich
Date: October 02, 2025

General Information:
4 samples were analyzed for EPA 200.7 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 200.7 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 948227

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60482367002

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 3758305)
  - Magnesium, Dissolved

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA Perimeter Deep
Pace Project No.: 60482367

Method: **EPA 6010**
Description: 6010 MET ICP
Client: Evergy_Haley & Aldrich
Date: October 02, 2025

General Information:
4 samples were analyzed for EPA 6010 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 948482

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60482367001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 3759401)
  - Lithium
- MSD (Lab ID: 3759402)
  - Lithium

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA Perimeter Deep
Pace Project No.: 60482367

Method: **EPA 200.8**
Description: 200.8 MET ICPMS
Client: Evergy_Haley & Aldrich
Date: October 02, 2025

General Information:
4 samples were analyzed for EPA 200.8 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 200.8 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: 948293

D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

- DUP (Lab ID: 3760857)
  - Aluminum
  - Arsenic
  - Cobalt
  - Chromium
  - Molybdenum

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PROJECT NARRATIVE

Project: TEC BASA Perimeter Deep
Pace Project No.: 60482367

Method: **EPA 200.8**
Description: 200.8 MET ICPMS
Client: Evergy_Haley & Aldrich
Date: October 02, 2025

Analyte Comments:

QC Batch: 948293

D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

- DUP (Lab ID: 3760857)
  - Lead
  - Selenium
- MW-12D-091225 (Lab ID: 60482367001)
  - Aluminum, Total Recoverable
  - Arsenic, Total Recoverable
  - Cobalt, Total Recoverable
  - Chromium, Total Recoverable
  - Iron, Total Recoverable
  - Molybdenum, Total Recoverable
  - Lead, Total Recoverable
  - Selenium, Total Recoverable
- MW-20-091125 (Lab ID: 60482367002)
  - Aluminum, Total Recoverable
  - Arsenic, Total Recoverable
  - Cobalt, Total Recoverable
  - Chromium, Total Recoverable
  - Molybdenum, Total Recoverable
  - Lead, Total Recoverable
  - Selenium, Total Recoverable
- MW-21-091125 (Lab ID: 60482367003)
  - Aluminum, Total Recoverable
  - Arsenic, Total Recoverable
  - Cobalt, Total Recoverable
  - Chromium, Total Recoverable
  - Iron, Total Recoverable
  - Molybdenum, Total Recoverable
  - Lead, Total Recoverable
  - Selenium, Total Recoverable
- MW-22-091125 (Lab ID: 60482367004)
  - Arsenic, Total Recoverable
  - Cobalt, Total Recoverable
  - Chromium, Total Recoverable
  - Molybdenum, Total Recoverable
  - Lead, Total Recoverable
  - Selenium, Total Recoverable

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PROJECT NARRATIVE

Project: TEC BASA Perimeter Deep
Pace Project No.: 60482367

Method: **EPA 200.8**
Description: 200.8 MET ICPMS, Dissolved
Client: Evergy_Haley & Aldrich
Date: October 02, 2025

General Information:
4 samples were analyzed for EPA 200.8 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 200.8 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: 948232

1e: Dissolved > Total, results confirmed by bottle check

- MW-21-091125 (Lab ID: 60482367003)
  - Manganese, Dissolved

D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

- MW-12D-091225 (Lab ID: 60482367001)
  - Aluminum, Dissolved
  - Arsenic, Dissolved
  - Cobalt, Dissolved
  - Iron, Dissolved

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PROJECT NARRATIVE

Project: TEC BASA Perimeter Deep
Pace Project No.: 60482367

Method: **EPA 200.8**
Description: 200.8 MET ICPMS, Dissolved
Client: Evergy_Haley & Aldrich
Date: October 02, 2025

Analyte Comments:

QC Batch: 948232

D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

- MW-20-091125 (Lab ID: 60482367002)
  - Aluminum, Dissolved
  - Arsenic, Dissolved
  - Cobalt, Dissolved
  - Iron, Dissolved
- MW-21-091125 (Lab ID: 60482367003)
  - Aluminum, Dissolved
  - Arsenic, Dissolved
  - Cobalt, Dissolved
  - Iron, Dissolved
- MW-22-091125 (Lab ID: 60482367004)
  - Aluminum, Dissolved
  - Arsenic, Dissolved
  - Cobalt, Dissolved
  - Iron, Dissolved

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PROJECT NARRATIVE

Project: TEC BASA Perimeter Deep
Pace Project No.: 60482367

Method: **SM 2320B**
Description: 2320B Alkalinity
Client: Evergy_Haley & Aldrich
Date: October 02, 2025

General Information:
4 samples were analyzed for SM 2320B by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA Perimeter Deep
Pace Project No.: 60482367

Method: **SM 2540C**
Description: 2540C Total Dissolved Solids
Client: Evergy_Haley & Aldrich
Date: October 02, 2025

General Information:
4 samples were analyzed for SM 2540C by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA Perimeter Deep
Pace Project No.: 60482367

Method: **SM 3500-Fe B#4**
Description: Iron, Ferrous
Client: Evergy_Haley & Aldrich
Date: October 02, 2025

General Information:
4 samples were analyzed for SM 3500-Fe B#4 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

H6: Analysis initiated outside of the 15 minute EPA required holding time.
- MW-12D-091225 (Lab ID: 60482367001)
- MW-20-091125 (Lab ID: 60482367002)
- MW-21-091125 (Lab ID: 60482367003)
- MW-22-091125 (Lab ID: 60482367004)

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA Perimeter Deep
Pace Project No.: 60482367

Method: **SM 4500-H+B**
Description: 4500H+ pH, Electrometric
Client: Evergy_Haley & Aldrich
Date: October 02, 2025

General Information:
4 samples were analyzed for SM 4500-H+B by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

H1: Analysis conducted outside the EPA method holding time.
- MW-12D-091225 (Lab ID: 60482367001)
- MW-20-091125 (Lab ID: 60482367002)
- MW-21-091125 (Lab ID: 60482367003)
- MW-22-091125 (Lab ID: 60482367004)

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA Perimeter Deep
Pace Project No.: 60482367

Method: **SM 4500-S-2 D**
Description: 4500S2D Sulfide, Total
Client: Evergy_Haley & Aldrich
Date: October 02, 2025

General Information:
4 samples were analyzed for SM 4500-S-2 D by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA Perimeter Deep
Pace Project No.: 60482367

Method: **EPA 300.0**
Description: 300.0 IC Anions
Client: Evergy_Haley & Aldrich
Date: October 02, 2025

General Information:
4 samples were analyzed for EPA 300.0 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 947985

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60482368002

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 3757581)
  - Nitrite as N
- MSD (Lab ID: 3757582)
  - Nitrite as N

Additional Comments:

Analyte Comments:

QC Batch: 947985

D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

- MW-12D-091225 (Lab ID: 60482367001)
  - Nitrite as N
- MW-20-091125 (Lab ID: 60482367002)
  - Nitrite as N
- MW-21-091125 (Lab ID: 60482367003)
  - Nitrite as N
- MW-22-091125 (Lab ID: 60482367004)
  - Nitrite as N

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PROJECT NARRATIVE

Project: TEC BASA Perimeter Deep
Pace Project No.: 60482367

Method: **EPA 300.0**
Description: 300.0 IC Anions 28 Days
Client: Evergy_Haley & Aldrich
Date: October 02, 2025

General Information:
4 samples were analyzed for EPA 300.0 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 949616

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60482367001,60482395001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 3763572)
  - Fluoride
- MS (Lab ID: 3763574)
  - Fluoride
  - Sulfate
- MSD (Lab ID: 3763573)
  - Fluoride

QC Batch: 949729

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60482367002,60482480002

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 3764044)
  - Chloride

R1: RPD value was outside control limits.

- MSD (Lab ID: 3764045)
  - Chloride

Additional Comments:

Analyte Comments:

QC Batch: 949616

E: Analyte concentration exceeded the calibration range. The reported result is estimated.

- MS (Lab ID: 3763574)
  - Sulfate

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: TEC BASA Perimeter Deep
Pace Project No.: 60482367

Method: **EPA 365.4**
Description: 365.4 Total Phosphorus
Client: Evergy_Haley & Aldrich
Date: October 02, 2025

General Information:
4 samples were analyzed for EPA 365.4 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 365.4 with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

QC Batch: 949246

B: Analyte was detected in the associated method blank.
- BLANK for HBN 949246 [WETA/110 (Lab ID: 3762057)
  - Phosphorus

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA Perimeter Deep
Pace Project No.: 60482367

Method: **SM 5310C**
Description: 5310C TOC
Client: Evergy_Haley & Aldrich
Date: October 02, 2025

General Information:
4 samples were analyzed for SM 5310C by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 948212

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60481977001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 3758266)
  - Total Organic Carbon

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA Perimeter Deep
Pace Project No.: 60482367

Method: **SM 5310C**
Description: 5310C Dissolved Organic Carbon
Client: Evergy_Haley & Aldrich
Date: October 02, 2025

General Information:
4 samples were analyzed for SM 5310C by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: TEC BASA Perimeter Deep
Pace Project No.: 60482367

Sample: MW-12D-091225 **Lab ID: 60482367001** Collected: 09/12/25 12:35 Received: 09/12/25 16:55 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								
Boron, Total Recoverable	**2.3**	mg/L	0.10	0.033	1	09/17/25 08:51	09/29/25 18:35	7440-42-8	M1
Calcium, Total Recoverable	**159**	mg/L	0.20	0.045	1	09/17/25 08:51	09/29/25 18:35	7440-70-2	M1
Magnesium, Total Recoverable	**97.8**	mg/L	0.050	0.021	1	09/17/25 08:51	09/29/25 18:35	7439-95-4	M1
Potassium, Total Recoverable	**15.1**	mg/L	0.50	0.045	1	09/17/25 08:51	09/29/25 18:35	7440-09-7	M1
Sodium, Total Recoverable	**4770**	mg/L	5.0	0.32	10	09/17/25 08:51	09/30/25 16:05	7440-23-5	M1
Total Hardness by 2340B, Total Recoverable	**800**	mg/L	0.50	0.20	1	09/17/25 08:51	09/29/25 18:35		
200.7 Metals, Dissolved	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City								
Magnesium, Dissolved	**100**	mg/L	0.050	0.021	1	09/17/25 08:17	09/30/25 18:13	7439-95-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Kansas City								
Lithium, Total Recoverable	**0.21**	mg/L	0.010	0.0018	1	09/18/25 09:00	09/30/25 18:30	7439-93-2	M1
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Aluminum, Total Recoverable	**0.24J**	mg/L	0.50	0.082	10	09/17/25 08:17	09/19/25 14:49	7429-90-5	D3
Arsenic, Total Recoverable	**<0.0013**	mg/L	0.010	0.0013	10	09/17/25 08:17	09/19/25 14:49	7440-38-2	D3
Barium, Total Recoverable	**0.054**	mg/L	0.010	0.0021	10	09/17/25 08:17	09/19/25 14:49	7440-39-3	
Chromium, Total Recoverable	**<0.0034**	mg/L	0.010	0.0034	10	09/17/25 08:17	09/19/25 14:49	7440-47-3	D3
Cobalt, Total Recoverable	**0.0022J**	mg/L	0.010	0.0010	10	09/17/25 08:17	09/19/25 14:49	7440-48-4	D3
Iron, Total Recoverable	**0.29J**	mg/L	0.50	0.044	10	09/17/25 08:17	09/19/25 14:49	7439-89-6	D3
Lead, Total Recoverable	**<0.0023**	mg/L	0.010	0.0023	10	09/17/25 08:17	09/19/25 14:49	7439-92-1	D3
Manganese, Total Recoverable	**0.16**	mg/L	0.010	0.0052	10	09/17/25 08:17	09/19/25 14:49	7439-96-5	
Molybdenum, Total Recoverable	**<0.0016**	mg/L	0.010	0.0016	10	09/17/25 08:17	09/19/25 14:49	7439-98-7	D3
Selenium, Total Recoverable	**<0.0019**	mg/L	0.010	0.0019	10	09/17/25 08:17	09/19/25 14:49	7782-49-2	D3
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Aluminum, Dissolved	**<0.082**	mg/L	0.50	0.082	10	09/17/25 08:17	09/19/25 15:20	7429-90-5	D3
Arsenic, Dissolved	**<0.0013**	mg/L	0.010	0.0013	10	09/17/25 08:17	09/19/25 15:20	7440-38-2	D3
Cobalt, Dissolved	**0.0020J**	mg/L	0.010	0.0010	10	09/17/25 08:17	09/19/25 15:20	7440-48-4	D3
Iron, Dissolved	**<0.044**	mg/L	0.50	0.044	10	09/17/25 08:17	09/19/25 15:20	7439-89-6	D3
Manganese, Dissolved	**0.14**	mg/L	0.010	0.0052	10	09/17/25 08:17	09/19/25 15:20	7439-96-5	
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Kansas City								
Alkalinity,Bicarbonate (CaCO3)	**202**	mg/L	20.0	10.5	1		09/16/25 16:33		
Alkalinity,Carbonate (CaCO3)	**<10.5**	mg/L	20.0	10.5	1		09/16/25 16:33		
Alkalinity, Total as CaCO3	**202**	mg/L	20.0	10.5	1		09/16/25 16:33		

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ANALYTICAL RESULTS

Project: TEC BASA Perimeter Deep
Pace Project No.: 60482367

Sample: MW-12D-091225 **Lab ID: 60482367001** Collected: 09/12/25 12:35 Received: 09/12/25 16:55 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	**13700**	mg/L	1000	1000	1		09/18/25 15:50		
Iron, Ferrous	Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City								
Iron, Ferrous	**0.14J**	mg/L	0.20	0.041	1		09/15/25 12:05	15438-31-0	H6
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Kansas City								
pH at 25 Degrees C	**7.4**	Std. Units	0.10	0.10	1		09/15/25 14:21		H1
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		09/15/25 14:31	18496-25-8	
300.0 IC Anions	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City								
Nitrate as N	**1.5**	mg/L	0.10	0.055	1		09/13/25 07:57	14797-55-8	
Nitrite as N	**<0.35**	mg/L	1.0	0.35	10		09/13/25 08:10	14797-65-0	D3
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City								
Chloride	**7900**	mg/L	1000	765	1000		09/26/25 15:28	16887-00-6	
Fluoride	**<0.16**	mg/L	0.20	0.16	1		09/26/25 14:09	16984-48-8	M1
Sulfate	**1230**	mg/L	400	172	400		09/26/25 14:48	14808-79-8	
365.4 Total Phosphorus	Analytical Method: EPA 365.4 Preparation Method: EPA 365.4 Pace Analytical Services - Kansas City								
Phosphorus	**0.082J**	mg/L	0.10	0.071	1	09/25/25 11:45	09/26/25 16:30	7723-14-0	B
5310C TOC	Analytical Method: SM 5310C Pace Analytical Services - Kansas City								
Total Organic Carbon	**<0.54**	mg/L	1.0	0.54	1		09/17/25 23:44	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C Pace Analytical Services - Kansas City								
Dissolved Organic Carbon	**<0.54**	mg/L	1.0	0.54	1		09/16/25 02:16		

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ANALYTICAL RESULTS

Project: TEC BASA Perimeter Deep
Pace Project No.: 60482367

Sample: MW-20-091125 **Lab ID: 60482367002** Collected: 09/12/25 14:10 Received: 09/12/25 16:55 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								
Boron, Total Recoverable	**2.4**	mg/L	0.10	0.033	1	09/17/25 08:51	09/29/25 18:39	7440-42-8	
Calcium, Total Recoverable	**135**	mg/L	0.20	0.045	1	09/17/25 08:51	09/29/25 18:39	7440-70-2	
Magnesium, Total Recoverable	**80.9**	mg/L	0.050	0.021	1	09/17/25 08:51	09/29/25 18:39	7439-95-4	
Potassium, Total Recoverable	**14.5**	mg/L	0.50	0.045	1	09/17/25 08:51	09/29/25 18:39	7440-09-7	
Sodium, Total Recoverable	**4620**	mg/L	5.0	0.32	10	09/17/25 08:51	09/30/25 16:09	7440-23-5	
Total Hardness by 2340B, Total Recoverable	**672**	mg/L	0.50	0.20	1	09/17/25 08:51	09/29/25 18:39		
200.7 Metals, Dissolved	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City								
Magnesium, Dissolved	**77.7**	mg/L	0.050	0.021	1	09/17/25 08:17	09/30/25 18:08	7439-95-4	M1,P6
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Kansas City								
Lithium, Total Recoverable	**0.19**	mg/L	0.010	0.0018	1	09/18/25 09:00	09/30/25 18:36	7439-93-2	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Aluminum, Total Recoverable	**0.25J**	mg/L	0.50	0.082	10	09/17/25 08:17	09/19/25 14:59	7429-90-5	D3
Arsenic, Total Recoverable	**0.0013J**	mg/L	0.010	0.0013	10	09/17/25 08:17	09/19/25 14:59	7440-38-2	D3
Barium, Total Recoverable	**0.051**	mg/L	0.010	0.0021	10	09/17/25 08:17	09/19/25 14:59	7440-39-3	
Chromium, Total Recoverable	**<0.0034**	mg/L	0.010	0.0034	10	09/17/25 08:17	09/19/25 14:59	7440-47-3	D3
Cobalt, Total Recoverable	**<0.0010**	mg/L	0.010	0.0010	10	09/17/25 08:17	09/19/25 14:59	7440-48-4	D3
Iron, Total Recoverable	**0.56**	mg/L	0.50	0.044	10	09/17/25 08:17	09/19/25 14:59	7439-89-6	
Lead, Total Recoverable	**<0.0023**	mg/L	0.010	0.0023	10	09/17/25 08:17	09/19/25 14:59	7439-92-1	D3
Manganese, Total Recoverable	**0.11**	mg/L	0.010	0.0052	10	09/17/25 08:17	09/19/25 14:59	7439-96-5	
Molybdenum, Total Recoverable	**0.0018J**	mg/L	0.010	0.0016	10	09/17/25 08:17	09/19/25 14:59	7439-98-7	D3
Selenium, Total Recoverable	**<0.0019**	mg/L	0.010	0.0019	10	09/17/25 08:17	09/19/25 14:59	7782-49-2	D3
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Aluminum, Dissolved	**<0.082**	mg/L	0.50	0.082	10	09/17/25 08:17	09/19/25 15:33	7429-90-5	D3
Arsenic, Dissolved	**<0.0013**	mg/L	0.010	0.0013	10	09/17/25 08:17	09/19/25 15:33	7440-38-2	D3
Cobalt, Dissolved	**<0.0010**	mg/L	0.010	0.0010	10	09/17/25 08:17	09/19/25 15:33	7440-48-4	D3
Iron, Dissolved	**<0.044**	mg/L	0.50	0.044	10	09/17/25 08:17	09/19/25 15:33	7439-89-6	D3
Manganese, Dissolved	**0.096**	mg/L	0.010	0.0052	10	09/17/25 08:17	09/19/25 15:33	7439-96-5	
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Kansas City								
Alkalinity,Bicarbonate (CaCO3)	**226**	mg/L	20.0	10.5	1		09/16/25 16:54		
Alkalinity,Carbonate (CaCO3)	**<10.5**	mg/L	20.0	10.5	1		09/16/25 16:54		
Alkalinity, Total as CaCO3	**226**	mg/L	20.0	10.5	1		09/16/25 16:54		

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ANALYTICAL RESULTS

Project: TEC BASA Perimeter Deep
Pace Project No.: 60482367

Sample: MW-20-091125 **Lab ID: 60482367002** Collected: 09/12/25 14:10 Received: 09/12/25 16:55 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	**13000**	mg/L	1000	1000	1		09/18/25 15:50		
Iron, Ferrous	Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City								
Iron, Ferrous	**0.39**	mg/L	0.20	0.041	1		09/15/25 12:05	15438-31-0	H6
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Kansas City								
pH at 25 Degrees C	**7.4**	Std. Units	0.10	0.10	1		09/15/25 14:21		H1
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		09/15/25 14:31	18496-25-8	
300.0 IC Anions	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City								
Nitrate as N	**0.59**	mg/L	0.10	0.055	1		09/13/25 08:50	14797-55-8	
Nitrite as N	**<0.35**	mg/L	1.0	0.35	10		09/13/25 09:04	14797-65-0	D3
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City								
Chloride	**7260**	mg/L	1000	527	1000		09/27/25 15:26	16887-00-6	M1,R1
Fluoride	**<0.16**	mg/L	0.20	0.16	1		09/26/25 16:33	16984-48-8	
Sulfate	**1280**	mg/L	400	172	400		09/26/25 16:46	14808-79-8	
365.4 Total Phosphorus	Analytical Method: EPA 365.4 Preparation Method: EPA 365.4 Pace Analytical Services - Kansas City								
Phosphorus	**<0.071**	mg/L	0.10	0.071	1	09/25/25 11:45	09/26/25 16:35	7723-14-0	
5310C TOC	Analytical Method: SM 5310C Pace Analytical Services - Kansas City								
Total Organic Carbon	**<0.54**	mg/L	1.0	0.54	1		09/17/25 23:58	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C Pace Analytical Services - Kansas City								
Dissolved Organic Carbon	**<0.54**	mg/L	1.0	0.54	1		09/16/25 03:13		

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ANALYTICAL RESULTS

Project: TEC BASA Perimeter Deep
Pace Project No.: 60482367

Sample: MW-21-091125 **Lab ID: 60482367003** Collected: 09/12/25 09:50 Received: 09/12/25 16:55 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								
Boron, Total Recoverable	**2.4**	mg/L	0.10	0.033	1	09/17/25 08:51	09/29/25 18:41	7440-42-8	
Calcium, Total Recoverable	**176**	mg/L	0.20	0.045	1	09/17/25 08:51	09/29/25 18:41	7440-70-2	
Magnesium, Total Recoverable	**108**	mg/L	0.050	0.021	1	09/17/25 08:51	09/29/25 18:41	7439-95-4	
Potassium, Total Recoverable	**17.5**	mg/L	0.50	0.045	1	09/17/25 08:51	09/29/25 18:41	7440-09-7	
Sodium, Total Recoverable	**5140**	mg/L	5.0	0.32	10	09/17/25 08:51	09/30/25 16:11	7440-23-5	
Total Hardness by 2340B, Total Recoverable	**885**	mg/L	0.50	0.20	1	09/17/25 08:51	09/29/25 18:41		
200.7 Metals, Dissolved	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City								
Magnesium, Dissolved	**104**	mg/L	0.050	0.021	1	09/17/25 08:17	09/30/25 18:15	7439-95-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Kansas City								
Lithium, Total Recoverable	**0.19**	mg/L	0.010	0.0018	1	09/18/25 09:00	09/30/25 18:38	7439-93-2	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Aluminum, Total Recoverable	**0.11J**	mg/L	0.50	0.082	10	09/17/25 08:17	09/19/25 14:39	7429-90-5	D3
Arsenic, Total Recoverable	**<0.0013**	mg/L	0.010	0.0013	10	09/17/25 08:17	09/19/25 14:39	7440-38-2	D3
Barium, Total Recoverable	**0.094**	mg/L	0.010	0.0021	10	09/17/25 08:17	09/19/25 14:39	7440-39-3	
Chromium, Total Recoverable	**<0.0034**	mg/L	0.010	0.0034	10	09/17/25 08:17	09/19/25 14:39	7440-47-3	D3
Cobalt, Total Recoverable	**0.0029J**	mg/L	0.010	0.0010	10	09/17/25 08:17	09/19/25 14:39	7440-48-4	D3
Iron, Total Recoverable	**0.17J**	mg/L	0.50	0.044	10	09/17/25 08:17	09/19/25 14:39	7439-89-6	D3
Lead, Total Recoverable	**<0.0023**	mg/L	0.010	0.0023	10	09/17/25 08:17	09/19/25 14:39	7439-92-1	D3
Manganese, Total Recoverable	**0.19**	mg/L	0.010	0.0052	10	09/17/25 08:17	09/19/25 14:39	7439-96-5	
Molybdenum, Total Recoverable	**0.0029J**	mg/L	0.010	0.0016	10	09/17/25 08:17	09/19/25 14:39	7439-98-7	D3
Selenium, Total Recoverable	**<0.0019**	mg/L	0.010	0.0019	10	09/17/25 08:17	09/19/25 14:39	7782-49-2	D3
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Aluminum, Dissolved	**<0.082**	mg/L	0.50	0.082	10	09/17/25 08:17	09/19/25 15:36	7429-90-5	D3
Arsenic, Dissolved	**<0.0013**	mg/L	0.010	0.0013	10	09/17/25 08:17	09/19/25 15:36	7440-38-2	D3
Cobalt, Dissolved	**0.0039J**	mg/L	0.010	0.0010	10	09/17/25 08:17	09/19/25 15:36	7440-48-4	D3
Iron, Dissolved	**<0.044**	mg/L	0.50	0.044	10	09/17/25 08:17	09/19/25 15:36	7439-89-6	D3
Manganese, Dissolved	**0.24**	mg/L	0.010	0.0052	10	09/17/25 08:17	09/19/25 15:36	7439-96-5	1e
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Kansas City								
Alkalinity,Bicarbonate (CaCO3)	**199**	mg/L	20.0	10.5	1		09/16/25 16:59		
Alkalinity,Carbonate (CaCO3)	**<10.5**	mg/L	20.0	10.5	1		09/16/25 16:59		
Alkalinity, Total as CaCO3	**199**	mg/L	20.0	10.5	1		09/16/25 16:59		

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ANALYTICAL RESULTS

Project: TEC BASA Perimeter Deep
Pace Project No.: 60482367

Sample: MW-21-091125 **Lab ID: 60482367003** Collected: 09/12/25 09:50 Received: 09/12/25 16:55 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	**14200**	mg/L	1000	1000	1		09/18/25 15:50		
Iron, Ferrous	Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City								
Iron, Ferrous	**0.11J**	mg/L	0.20	0.041	1		09/15/25 12:05	15438-31-0	H6
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Kansas City								
pH at 25 Degrees C	**7.4**	Std. Units	0.10	0.10	1		09/15/25 14:21		H1
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		09/15/25 14:31	18496-25-8	
300.0 IC Anions	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City								
Nitrate as N	**12.2**	mg/L	0.50	0.27	5		09/13/25 07:32	14797-55-8	
Nitrite as N	**<0.17**	mg/L	0.50	0.17	5		09/13/25 07:32	14797-65-0	D3
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City								
Chloride	**8480**	mg/L	1000	765	1000		09/26/25 17:38	16887-00-6	
Fluoride	**<0.16**	mg/L	0.20	0.16	1		09/26/25 17:12	16984-48-8	
Sulfate	**1290**	mg/L	400	172	400		09/26/25 17:25	14808-79-8	
365.4 Total Phosphorus	Analytical Method: EPA 365.4 Preparation Method: EPA 365.4 Pace Analytical Services - Kansas City								
Phosphorus	**<0.071**	mg/L	0.10	0.071	1	09/25/25 11:45	09/26/25 16:37	7723-14-0	
5310C TOC	Analytical Method: SM 5310C Pace Analytical Services - Kansas City								
Total Organic Carbon	**<0.54**	mg/L	1.0	0.54	1		09/18/25 00:12	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C Pace Analytical Services - Kansas City								
Dissolved Organic Carbon	**<0.54**	mg/L	1.0	0.54	1		09/16/25 03:27		

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ANALYTICAL RESULTS

Project: TEC BASA Perimeter Deep
Pace Project No.: 60482367

Sample: MW-22-091125 **Lab ID: 60482367004** Collected: 09/12/25 13:35 Received: 09/12/25 16:55 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								
Boron, Total Recoverable	**2.2**	mg/L	0.10	0.033	1	09/17/25 08:51	09/29/25 18:42	7440-42-8	
Calcium, Total Recoverable	**123**	mg/L	0.20	0.045	1	09/17/25 08:51	09/29/25 18:42	7440-70-2	
Magnesium, Total Recoverable	**71.4**	mg/L	0.050	0.021	1	09/17/25 08:51	09/29/25 18:42	7439-95-4	
Potassium, Total Recoverable	**13.6**	mg/L	0.50	0.045	1	09/17/25 08:51	09/29/25 18:42	7440-09-7	
Sodium, Total Recoverable	**4220**	mg/L	5.0	0.32	10	09/17/25 08:51	09/30/25 16:13	7440-23-5	
Total Hardness by 2340B, Total Recoverable	**600**	mg/L	0.50	0.20	1	09/17/25 08:51	09/29/25 18:42		
200.7 Metals, Dissolved	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City								
Magnesium, Dissolved	**81.8**	mg/L	0.050	0.021	1	09/17/25 08:17	09/30/25 18:17	7439-95-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Kansas City								
Lithium, Total Recoverable	**0.19**	mg/L	0.010	0.0018	1	09/18/25 09:00	09/30/25 18:39	7439-93-2	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Aluminum, Total Recoverable	**0.53**	mg/L	0.50	0.082	10	09/17/25 08:17	09/19/25 14:46	7429-90-5	
Arsenic, Total Recoverable	**0.0014J**	mg/L	0.010	0.0013	10	09/17/25 08:17	09/19/25 14:46	7440-38-2	D3
Barium, Total Recoverable	**0.056**	mg/L	0.010	0.0021	10	09/17/25 08:17	09/19/25 14:46	7440-39-3	
Chromium, Total Recoverable	**<0.0034**	mg/L	0.010	0.0034	10	09/17/25 08:17	09/19/25 14:46	7440-47-3	D3
Cobalt, Total Recoverable	**0.0019J**	mg/L	0.010	0.0010	10	09/17/25 08:17	09/19/25 14:46	7440-48-4	D3
Iron, Total Recoverable	**0.77**	mg/L	0.50	0.044	10	09/17/25 08:17	09/19/25 14:46	7439-89-6	
Lead, Total Recoverable	**<0.0023**	mg/L	0.010	0.0023	10	09/17/25 08:17	09/19/25 14:46	7439-92-1	D3
Manganese, Total Recoverable	**0.14**	mg/L	0.010	0.0052	10	09/17/25 08:17	09/19/25 14:46	7439-96-5	
Molybdenum, Total Recoverable	**0.0017J**	mg/L	0.010	0.0016	10	09/17/25 08:17	09/19/25 14:46	7439-98-7	D3
Selenium, Total Recoverable	**<0.0019**	mg/L	0.010	0.0019	10	09/17/25 08:17	09/19/25 14:46	7782-49-2	D3
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Aluminum, Dissolved	**<0.082**	mg/L	0.50	0.082	10	09/17/25 08:17	09/19/25 15:39	7429-90-5	D3
Arsenic, Dissolved	**<0.0013**	mg/L	0.010	0.0013	10	09/17/25 08:17	09/19/25 15:39	7440-38-2	D3
Cobalt, Dissolved	**0.0017J**	mg/L	0.010	0.0010	10	09/17/25 08:17	09/19/25 15:39	7440-48-4	D3
Iron, Dissolved	**<0.044**	mg/L	0.50	0.044	10	09/17/25 08:17	09/19/25 15:39	7439-89-6	D3
Manganese, Dissolved	**0.14**	mg/L	0.010	0.0052	10	09/17/25 08:17	09/19/25 15:39	7439-96-5	D9
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Kansas City								
Alkalinity,Bicarbonate (CaCO3)	**216**	mg/L	20.0	10.5	1		09/16/25 17:05		
Alkalinity,Carbonate (CaCO3)	**<10.5**	mg/L	20.0	10.5	1		09/16/25 17:05		
Alkalinity, Total as CaCO3	**216**	mg/L	20.0	10.5	1		09/16/25 17:05		

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ANALYTICAL RESULTS

Project: TEC BASA Perimeter Deep
Pace Project No.: 60482367

Sample: MW-22-091125 **Lab ID: 60482367004** Collected: 09/12/25 13:35 Received: 09/12/25 16:55 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	**13700**	mg/L	1000	1000	1		09/18/25 15:51		
Iron, Ferrous	Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City								
Iron, Ferrous	**0.45**	mg/L	0.20	0.041	1		09/15/25 12:05	15438-31-0	H6
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Kansas City								
pH at 25 Degrees C	**7.2**	Std. Units	0.10	0.10	1		09/15/25 14:21		H1
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		09/15/25 14:31	18496-25-8	
300.0 IC Anions	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City								
Nitrate as N	**0.48**	mg/L	0.10	0.055	1		09/13/25 08:24	14797-55-8	
Nitrite as N	**<0.35**	mg/L	1.0	0.35	10		09/13/25 08:37	14797-65-0	D3
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City								
Chloride	**7930**	mg/L	400	306	400		09/26/25 18:04	16887-00-6	
Fluoride	**<0.16**	mg/L	0.20	0.16	1		09/26/25 17:51	16984-48-8	
Sulfate	**1280**	mg/L	400	172	400		09/26/25 18:04	14808-79-8	
365.4 Total Phosphorus	Analytical Method: EPA 365.4 Preparation Method: EPA 365.4 Pace Analytical Services - Kansas City								
Phosphorus	**0.12**	mg/L	0.10	0.071	1	09/25/25 11:45	09/26/25 16:39	7723-14-0	B
5310C TOC	Analytical Method: SM 5310C Pace Analytical Services - Kansas City								
Total Organic Carbon	**<0.54**	mg/L	1.0	0.54	1		09/18/25 00:26	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C Pace Analytical Services - Kansas City								
Dissolved Organic Carbon	**<0.54**	mg/L	1.0	0.54	1		09/16/25 03:41		

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QUALITY CONTROL DATA

Project: TEC BASA Perimeter Deep
Pace Project No.: 60482367

QC Batch: 948292
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: 60482367001, 60482367002, 60482367003, 60482367004

METHOD BLANK: 3758570 Matrix: Water
Associated Lab Samples: 60482367001, 60482367002, 60482367003, 60482367004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Boron	mg/L	<0.033	0.10	0.033	09/29/25 18:05	
Calcium	mg/L	<0.045	0.20	0.045	09/29/25 18:05	
Hardness, Total(SM 2340B)	mg/L	<0.20	0.50	0.20	09/29/25 18:05	
Magnesium	mg/L	<0.021	0.050	0.021	09/29/25 18:05	
Potassium	mg/L	0.061J	0.50	0.045	09/29/25 18:05	
Sodium	mg/L	0.032J	0.50	0.032	09/29/25 18:05	

LABORATORY CONTROL SAMPLE: 3763005

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	mg/L	1	0.94	94	85-115	
Calcium	mg/L	10	9.9	99	85-115	
Hardness, Total(SM 2340B)	mg/L	66.2	64.2	97	85-115	
Magnesium	mg/L	10	9.6	96	85-115	
Potassium	mg/L	10	9.8	98	85-115	
Sodium	mg/L	10	9.8	98	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3758572 3758573

Parameter	Units	60482240003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Boron	mg/L	0.47	2	2	1.3	1.4	43	48	70-130	8	20	M1
Calcium	mg/L	245	20	20	202	273	-213	139	70-130	30	20	M1,R1
Hardness, Total(SM 2340B)	mg/L	866000 ug/L	132	132	744	989	-92	93	70-130	28	20	
Magnesium	mg/L	61800 ug/L	20	20	58.0	74.8	-19	65	70-130	25	20	M1,R1
Potassium	mg/L	1270 ug/L	20	20	10.9	10.9	48	48	70-130	0	20	M1
Sodium	mg/L	96000 ug/L	20	20	85.2	113	-54	85	70-130	28	20	M1,R1

MATRIX SPIKE SAMPLE: 3758574

Parameter	Units	60482367001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Boron	mg/L	2.3	2	2.3	0	70-130	M1
Calcium	mg/L	159	20	158	-5	70-130	M1

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QUALITY CONTROL DATA

Project: TEC BASA Perimeter Deep
Pace Project No.: 60482367

MATRIX SPIKE SAMPLE: 3758574

Parameter	Units	60482367001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Hardness, Total(SM 2340B)	mg/L	800	132	797	-3	70-130	
Magnesium	mg/L	97.8	20	97.5	-1	70-130	M1
Potassium	mg/L	15.1	20	15.7	3	70-130	M1
Sodium	mg/L	4770	20	4740	-154	70-130	M1

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QUALITY CONTROL DATA

Project: TEC BASA Perimeter Deep
Pace Project No.: 60482367

QC Batch: 948227
QC Batch Method: EPA 200.7
Analysis Method: EPA 200.7
Analysis Description: 200.7 Metals, Dissolved
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60482367001, 60482367002, 60482367003, 60482367004

METHOD BLANK: 3758303 Matrix: Water
Associated Lab Samples: 60482367001, 60482367002, 60482367003, 60482367004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Magnesium, Dissolved	mg/L	<0.021	0.050	0.021	09/30/25 18:04	

LABORATORY CONTROL SAMPLE: 3758304

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Magnesium, Dissolved	mg/L	10	9.7	97	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3758305 3758306

Parameter	Units	60482367002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Magnesium, Dissolved	mg/L	77.7	10	10	91.9	88.0	142	104	70-130	4	20	M1,P6

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QUALITY CONTROL DATA

Project: TEC BASA Perimeter Deep
Pace Project No.: 60482367

QC Batch: 948293
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: 60482367001, 60482367002, 60482367003, 60482367004

METHOD BLANK: 3758575 Matrix: Water
Associated Lab Samples: 60482367001, 60482367002, 60482367003, 60482367004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Aluminum	mg/L	<0.0082	0.050	0.0082	09/19/25 12:31	
Arsenic	mg/L	<0.00013	0.0010	0.00013	09/19/25 12:31	
Barium	mg/L	<0.00021	0.0010	0.00021	09/19/25 12:31	
Chromium	mg/L	<0.00034	0.0010	0.00034	09/19/25 12:31	
Cobalt	mg/L	<0.00010	0.0010	0.00010	09/19/25 12:31	
Iron	mg/L	<0.0044	0.050	0.0044	09/19/25 12:31	
Lead	mg/L	<0.00023	0.0010	0.00023	09/19/25 12:31	
Manganese	mg/L	<0.00052	0.0010	0.00052	09/19/25 12:31	
Molybdenum	mg/L	<0.00016	0.0010	0.00016	09/19/25 12:31	
Selenium	mg/L	<0.00019	0.0010	0.00019	09/19/25 12:31	

LABORATORY CONTROL SAMPLE: 3758576

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	mg/L	1	1.0	103	85-115	
Arsenic	mg/L	0.04	0.038	96	85-115	
Barium	mg/L	0.04	0.040	100	85-115	
Chromium	mg/L	0.04	0.040	100	85-115	
Cobalt	mg/L	0.04	0.040	99	85-115	
Iron	mg/L	1	1.0	102	85-115	
Lead	mg/L	0.04	0.041	102	85-115	
Manganese	mg/L	0.04	0.039	98	85-115	
Molybdenum	mg/L	0.04	0.040	99	85-115	
Selenium	mg/L	0.04	0.038	96	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3758577 3758578

Parameter	Units	60482240002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum	mg/L	680 ug/L	1	1	1.7	1.8	102	109	70-130	4	20	
Arsenic	mg/L	<0.0010	0.04	0.04	0.038	0.039	92	95	70-130	3	20	
Barium	mg/L	0.097	0.04	0.04	0.14	0.15	97	121	70-130	7	20	
Chromium	mg/L	0.0011	0.04	0.04	0.039	0.041	95	99	70-130	4	20	
Cobalt	mg/L	<0.0010	0.04	0.04	0.040	0.042	101	104	70-130	3	20	
Iron	mg/L	695 ug/L	1	1	1.7	1.7	96	104	70-130	5	20	
Lead	mg/L	<0.0010	0.04	0.04	0.036	0.038	88	92	70-130	4	20	
Manganese	mg/L	33.6 ug/L	0.04	0.04	0.075	0.080	105	117	70-130	6	20	

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QUALITY CONTROL DATA

Project: TEC BASA Perimeter Deep
Pace Project No.: 60482367

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3758577 3758578

Parameter	Units	60482240002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Molybdenum	mg/L	<0.0010	0.04	0.04	0.044	0.046	109	115	70-130	5	20	
Selenium	mg/L	<0.0010	0.04	0.04	0.036	0.037	90	92	70-130	2	20	

SAMPLE DUPLICATE: 3760857

Parameter	Units	60482367002 Result	Dup Result	RPD	Max RPD	Qualifiers
Aluminum	mg/L	0.25J	0.22J		20	D3
Arsenic	mg/L	0.0013J	0.0014J		20	D3
Barium	mg/L	0.051	0.051	1	20	
Chromium	mg/L	<0.0034	<0.0034		20	D3
Cobalt	mg/L	<0.0010	<0.0010		20	D3
Iron	mg/L	0.56	0.53	6	20	
Lead	mg/L	<0.0023	<0.0023		20	D3
Manganese	mg/L	0.11	0.11	1	20	
Molybdenum	mg/L	0.0018J	0.0017J		20	D3
Selenium	mg/L	<0.0019	<0.0019		20	D3

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QUALITY CONTROL DATA

Project: TEC BASA Perimeter Deep
Pace Project No.: 60482367

QC Batch: 948232
QC Batch Method: EPA 200.8
Analysis Method: EPA 200.8
Analysis Description: 200.8 MET Dissolved
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60482367001, 60482367002, 60482367003, 60482367004

METHOD BLANK: 3758342 Matrix: Water
Associated Lab Samples: 60482367001, 60482367002, 60482367003, 60482367004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Aluminum, Dissolved	mg/L	<0.0082	0.050	0.0082	09/19/25 15:15	
Arsenic, Dissolved	mg/L	<0.00013	0.0010	0.00013	09/19/25 15:15	
Cobalt, Dissolved	mg/L	<0.00010	0.0010	0.00010	09/19/25 15:15	
Iron, Dissolved	mg/L	<0.0044	0.050	0.0044	09/19/25 15:15	
Manganese, Dissolved	mg/L	<0.00052	0.0010	0.00052	09/19/25 15:15	

LABORATORY CONTROL SAMPLE: 3758343

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	mg/L	1	0.96	96	85-115	
Arsenic, Dissolved	mg/L	0.04	0.035	87	85-115	
Cobalt, Dissolved	mg/L	0.04	0.038	94	85-115	
Iron, Dissolved	mg/L	1	0.95	95	85-115	
Manganese, Dissolved	mg/L	0.04	0.040	100	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3758344 3758345

Parameter	Units	60482367001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum, Dissolved	mg/L	<0.082	1	1	1.3	1.3	128	130	70-130	1	20	
Arsenic, Dissolved	mg/L	<0.0013	0.04	0.04	0.037	0.036	90	89	70-130	1	20	
Cobalt, Dissolved	mg/L	0.0020J	0.04	0.04	0.044	0.044	104	104	70-130	0	20	
Iron, Dissolved	mg/L	<0.044	1	1	1.2	1.2	112	112	70-130	1	20	
Manganese, Dissolved	mg/L	0.14	0.04	0.04	0.18	0.19	107	110	70-130	1	20	

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QUALITY CONTROL DATA

Project: TEC BASA Perimeter Deep
Pace Project No.: 60482367

QC Batch: 948482
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60482367001, 60482367002, 60482367003, 60482367004

METHOD BLANK: 3759399 Matrix: Water
Associated Lab Samples: 60482367001, 60482367002, 60482367003, 60482367004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Lithium	mg/L	0.0030J	0.010	0.0018	09/30/25 18:26	

LABORATORY CONTROL SAMPLE: 3759400

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lithium	mg/L	1	1.0	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3759401 3759402

Parameter	Units	60482367001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lithium	mg/L	0.21	2	2	1.3	1.3	53	52	75-125	0	20	M1

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QUALITY CONTROL DATA

Project: TEC BASA Perimeter Deep
Pace Project No.: 60482367

QC Batch: 948216
QC Batch Method: SM 2320B
Analysis Method: SM 2320B
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60482367001, 60482367002, 60482367003, 60482367004

METHOD BLANK: 3758272 Matrix: Water
Associated Lab Samples: 60482367001, 60482367002, 60482367003, 60482367004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<10.5	20.0	10.5	09/16/25 15:34	
Alkalinity,Bicarbonate (CaCO3)	mg/L	<10.5	20.0	10.5	09/16/25 15:34	
Alkalinity,Carbonate (CaCO3)	mg/L	<10.5	20.0	10.5	09/16/25 15:34	

LABORATORY CONTROL SAMPLE: 3758273

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	500	482	96	90-110	

SAMPLE DUPLICATE: 3758274

Parameter	Units	60482368001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	568	563	1	10	
Alkalinity,Bicarbonate (CaCO3)	mg/L	568	563	1	10	
Alkalinity,Carbonate (CaCO3)	mg/L	<10.5	<10.5		10	

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QUALITY CONTROL DATA

Project: TEC BASA Perimeter Deep
Pace Project No.: 60482367

QC Batch: 948546 | Analysis Method: SM 2540C
QC Batch Method: SM 2540C | Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60482367001, 60482367002, 60482367003, 60482367004

METHOD BLANK: 3759546 Matrix: Water
Associated Lab Samples: 60482367001, 60482367002, 60482367003, 60482367004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<5.0	5.0	5.0	09/18/25 15:50	

LABORATORY CONTROL SAMPLE: 3759547

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	1000	1020	102	80-120	

SAMPLE DUPLICATE: 3759548

Parameter	Units	60482368001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1010	1020	1	10	

SAMPLE DUPLICATE: 3759549

Parameter	Units	60482405001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	3250	3290	1	10	

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QUALITY CONTROL DATA

Project: TEC BASA Perimeter Deep
Pace Project No.: 60482367

QC Batch: 948089
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: 60482367001, 60482367002, 60482367003, 60482367004

METHOD BLANK: 3757941 Matrix: Water
Associated Lab Samples: 60482367001, 60482367002, 60482367003, 60482367004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Iron, Ferrous	mg/L	<0.041	0.20	0.041	09/15/25 12:05	H6

LABORATORY CONTROL SAMPLE: 3757942

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Ferrous	mg/L	2	2.0	100	90-110	H6

SAMPLE DUPLICATE: 3757943

Parameter	Units	60482368002 Result	Dup Result	RPD	Max RPD	Qualifiers
Iron, Ferrous	mg/L	6.4	6.5	1	20	H6

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QUALITY CONTROL DATA

Project: TEC BASA Perimeter Deep
Pace Project No.: 60482367

QC Batch: 948063
QC Batch Method: SM 4500-H+B
Analysis Method: SM 4500-H+B
Analysis Description: 4500H+B pH
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60482367001, 60482367002, 60482367003, 60482367004

SAMPLE DUPLICATE: 3757897

Parameter	Units	60482385002 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	6.8	6.8	0	5	H1

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QUALITY CONTROL DATA

Project: TEC BASA Perimeter Deep
Pace Project No.: 60482367

QC Batch: 948125
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: 60482367001, 60482367002, 60482367003, 60482367004

METHOD BLANK: 3758071 Matrix: Water
Associated Lab Samples: 60482367001, 60482367002, 60482367003, 60482367004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide, Total	mg/L	<0.016	0.050	0.016	09/15/25 14:31	

LABORATORY CONTROL SAMPLE: 3758072

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	0.5	0.50	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3758074 3758075

Parameter	Units	60482368001 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	0.48	0.48	94	95	75-125	1	20	

SAMPLE DUPLICATE: 3758073

Parameter	Units	60482368001 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	<0.016	<0.016		20	

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QUALITY CONTROL DATA

Project: TEC BASA Perimeter Deep
Pace Project No.: 60482367

QC Batch: 947985
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: 60482367001, 60482367002, 60482367003, 60482367004

METHOD BLANK: 3757579 Matrix: Water
Associated Lab Samples: 60482367001, 60482367002, 60482367003, 60482367004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrate as N	mg/L	<0.055	0.10	0.055	09/13/25 03:16	
Nitrite as N	mg/L	<0.035	0.10	0.035	09/13/25 03:16	

LABORATORY CONTROL SAMPLE: 3757580

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrate as N	mg/L	2	1.9	95	90-110	
Nitrite as N	mg/L	2	1.9	93	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3757581 3757582

Parameter	Units	60482368002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrate as N	mg/L	0.056J	2	2	1.7	1.7	84	84	80-120	1	15	
Nitrite as N	mg/L	<0.035	2	2	1.4	1.4	68	68	80-120	0	15	M1

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QUALITY CONTROL DATA

Project: TEC BASA Perimeter Deep
Pace Project No.: 60482367

QC Batch: 949616
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: 60482367001, 60482367002, 60482367003, 60482367004

METHOD BLANK: 3763570 Matrix: Water
Associated Lab Samples: 60482367001, 60482367002, 60482367003, 60482367004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	<0.77	1.0	0.77	09/26/25 08:54	
Fluoride	mg/L	<0.16	0.20	0.16	09/26/25 08:54	
Sulfate	mg/L	<0.43	1.0	0.43	09/26/25 08:54	

LABORATORY CONTROL SAMPLE: 3763571

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.6	92	90-110	
Fluoride	mg/L	2.5	2.4	97	90-110	
Sulfate	mg/L	5	4.8	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3763572 3763573

Parameter	Units	60482367001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	7900	5000	5000	12500	12600	92	95	80-120	1	15	
Fluoride	mg/L	<0.16	2.5	2.5	<0.16	<0.16	0	0	80-120		15	M1
Sulfate	mg/L	1230	2000	2000	3110	3120	94	95	80-120	0	15	

MATRIX SPIKE SAMPLE: 3763574

Parameter	Units	60482395001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	61.5	100	149	87	80-120	
Fluoride	mg/L	33.5	50	69.6	72	80-120	M1
Sulfate	mg/L	7550	1000	9610	323	80-120	E,M1

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QUALITY CONTROL DATA

Project: TEC BASA Perimeter Deep
Pace Project No.: 60482367

QC Batch: 949729
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: 60482367002

METHOD BLANK: 3764042 Matrix: Water
Associated Lab Samples: 60482367002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	<0.53	1.0	0.53	09/27/25 15:01	

LABORATORY CONTROL SAMPLE: 3764043

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.6	92	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3764044 3764045

Parameter	Units	60482367002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	7260	5000	5000	9940	11600	53	87	80-120	16	15	M1,R1

MATRIX SPIKE SAMPLE: 3764046

Parameter	Units	60482480002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	197	100	293	95	80-120	

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QUALITY CONTROL DATA

Project: TEC BASA Perimeter Deep
Pace Project No.: 60482367

QC Batch: 949246
QC Batch Method: EPA 365.4
Analysis Method: EPA 365.4
Analysis Description: 365.4 Phosphorus
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60482367001, 60482367002, 60482367003, 60482367004

METHOD BLANK: 3762057 Matrix: Water
Associated Lab Samples: 60482367001, 60482367002, 60482367003, 60482367004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Phosphorus	mg/L	0.077J	0.10	0.071	09/26/25 16:04	

LABORATORY CONTROL SAMPLE: 3762058

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphorus	mg/L	5	5.2	104	80-120	

MATRIX SPIKE SAMPLE: 3762059

Parameter	Units	60482561001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phosphorus	mg/L	0.12	5	4.9	96	80-120	

MATRIX SPIKE SAMPLE: 3762061

Parameter	Units	60482368004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phosphorus	mg/L	4.7	5	9.5	95	80-120	

SAMPLE DUPLICATE: 3762301

Parameter	Units	60482367001 Result	Dup Result	RPD	Max RPD	Qualifiers
Phosphorus	mg/L	0.082J	<0.071		10	

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QUALITY CONTROL DATA

Project: TEC BASA Perimeter Deep
Pace Project No.: 60482367

QC Batch: 948212
QC Batch Method: SM 5310C
Analysis Method: SM 5310C
Analysis Description: 5310C Total Organic Carbon
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60482367001, 60482367002, 60482367003, 60482367004

METHOD BLANK: 3758264 Matrix: Water
Associated Lab Samples: 60482367001, 60482367002, 60482367003, 60482367004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Organic Carbon	mg/L	<0.54	1.0	0.54	09/17/25 18:05	

LABORATORY CONTROL SAMPLE: 3758265

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	5	5.1	103	80-120	

MATRIX SPIKE SAMPLE: 3758266

Parameter	Units	60481977001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	ND	5	3.6	58	80-120	M1

SAMPLE DUPLICATE: 3758267

Parameter	Units	60481977001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Organic Carbon	mg/L	ND	0.71J		25	

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QUALITY CONTROL DATA

Project: TEC BASA Perimeter Deep
Pace Project No.: 60482367

QC Batch: 948069
QC Batch Method: SM 5310C
Analysis Method: SM 5310C
Analysis Description: 5310C Dissolved Organic Carbon
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60482367001, 60482367002, 60482367003, 60482367004

METHOD BLANK: 3757915 Matrix: Water
Associated Lab Samples: 60482367001, 60482367002, 60482367003, 60482367004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Dissolved Organic Carbon	mg/L	<0.54	1.0	0.54	09/16/25 01:06	

LABORATORY CONTROL SAMPLE: 3757916

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	5	5.1	103	80-120	

MATRIX SPIKE SAMPLE: 3757917

Parameter	Units	60482281004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	ND	5	5.2	85	80-120	

SAMPLE DUPLICATE: 3757918

Parameter	Units	60482281004 Result	Dup Result	RPD	Max RPD	Qualifiers
Dissolved Organic Carbon	mg/L	ND	0.76J		25	

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QUALIFIERS

Project: TEC BASA Perimeter Deep
Pace Project No.: 60482367

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

1e	Dissolved > Total, results confirmed by bottle check
B	Analyte was detected in the associated method blank.
D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
D9	Dissolved result is greater than the total. Data is within laboratory control limits.
E	Analyte concentration exceeded the calibration range. The reported result is estimated.
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.
P6	Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.
R1	RPD value was outside control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: TEC BASA Perimeter Deep
Pace Project No.: 60482367

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60482367001	**MW-12D-091225**	EPA 200.7	948292	EPA 200.7	948413
60482367002	**MW-20-091125**	EPA 200.7	948292	EPA 200.7	948413
60482367003	**MW-21-091125**	EPA 200.7	948292	EPA 200.7	948413
60482367004	**MW-22-091125**	EPA 200.7	948292	EPA 200.7	948413
60482367001	**MW-12D-091225**	EPA 200.7	948227	EPA 200.7	948431
60482367002	**MW-20-091125**	EPA 200.7	948227	EPA 200.7	948431
60482367003	**MW-21-091125**	EPA 200.7	948227	EPA 200.7	948431
60482367004	**MW-22-091125**	EPA 200.7	948227	EPA 200.7	948431
60482367001	**MW-12D-091225**	EPA 3010	948482	EPA 6010	948612
60482367002	**MW-20-091125**	EPA 3010	948482	EPA 6010	948612
60482367003	**MW-21-091125**	EPA 3010	948482	EPA 6010	948612
60482367004	**MW-22-091125**	EPA 3010	948482	EPA 6010	948612
60482367001	**MW-12D-091225**	EPA 200.8	948293	EPA 200.8	948433
60482367002	**MW-20-091125**	EPA 200.8	948293	EPA 200.8	948433
60482367003	**MW-21-091125**	EPA 200.8	948293	EPA 200.8	948433
60482367004	**MW-22-091125**	EPA 200.8	948293	EPA 200.8	948433
60482367001	**MW-12D-091225**	EPA 200.8	948232	EPA 200.8	948436
60482367002	**MW-20-091125**	EPA 200.8	948232	EPA 200.8	948436
60482367003	**MW-21-091125**	EPA 200.8	948232	EPA 200.8	948436
60482367004	**MW-22-091125**	EPA 200.8	948232	EPA 200.8	948436
60482367001	**MW-12D-091225**	SM 2320B	948216		
60482367002	**MW-20-091125**	SM 2320B	948216		
60482367003	**MW-21-091125**	SM 2320B	948216		
60482367004	**MW-22-091125**	SM 2320B	948216		
60482367001	**MW-12D-091225**	SM 2540C	948546		
60482367002	**MW-20-091125**	SM 2540C	948546		
60482367003	**MW-21-091125**	SM 2540C	948546		
60482367004	**MW-22-091125**	SM 2540C	948546		
60482367001	**MW-12D-091225**	SM 3500-Fe B#4	948089		
60482367002	**MW-20-091125**	SM 3500-Fe B#4	948089		
60482367003	**MW-21-091125**	SM 3500-Fe B#4	948089		
60482367004	**MW-22-091125**	SM 3500-Fe B#4	948089		
60482367001	**MW-12D-091225**	SM 4500-H+B	948063		
60482367002	**MW-20-091125**	SM 4500-H+B	948063		
60482367003	**MW-21-091125**	SM 4500-H+B	948063		
60482367004	**MW-22-091125**	SM 4500-H+B	948063		
60482367001	**MW-12D-091225**	SM 4500-S-2 D	948125		
60482367002	**MW-20-091125**	SM 4500-S-2 D	948125		
60482367003	**MW-21-091125**	SM 4500-S-2 D	948125		
60482367004	**MW-22-091125**	SM 4500-S-2 D	948125		
60482367001	**MW-12D-091225**	EPA 300.0	947985		
60482367002	**MW-20-091125**	EPA 300.0	947985		
60482367003	**MW-21-091125**	EPA 300.0	947985		
60482367004	**MW-22-091125**	EPA 300.0	947985		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: TEC BASA Perimeter Deep
Pace Project No.: 60482367

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60482367001	**MW-12D-091225**	EPA 300.0	949616		
60482367002	**MW-20-091125**	EPA 300.0	949616		
60482367002	**MW-20-091125**	EPA 300.0	949729		
60482367003	**MW-21-091125**	EPA 300.0	949616		
60482367004	**MW-22-091125**	EPA 300.0	949616		
60482367001	**MW-12D-091225**	EPA 365.4	949246	EPA 365.4	949854
60482367002	**MW-20-091125**	EPA 365.4	949246	EPA 365.4	949854
60482367003	**MW-21-091125**	EPA 365.4	949246	EPA 365.4	949854
60482367004	**MW-22-091125**	EPA 365.4	949246	EPA 365.4	949854
60482367001	**MW-12D-091225**	SM 5310C	948212		
60482367002	**MW-20-091125**	SM 5310C	948212		
60482367003	**MW-21-091125**	SM 5310C	948212		
60482367004	**MW-22-091125**	SM 5310C	948212		
60482367001	**MW-12D-091225**	SM 5310C	948069		
60482367002	**MW-20-091125**	SM 5310C	948069		
60482367003	**MW-21-091125**	SM 5310C	948069		
60482367004	**MW-22-091125**	SM 5310C	948069		

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WO# : 60482367

60482367

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

Issued By: Lenexa

Client Name: Evergy Central

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** 4.1 **Corr. Factor** 0.0 **Corrected** 4.1

Date and initials of person examining contents: AF 9/1/2

Temperature should be above freezing to 6°C

Chain of Custody present:	☑Yes ☐No ☐N/A	Cool 2-4.7
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	NOx
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: WW	☐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, OK-DRO) **LOT#:** 168555168728	☑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

60482367

Scan QR Code for instructions

Company Name:	Evergy Kansas Central, Inc.	Contact/Report To:	Jake Humphrey
Street Address:	818 S Kansas Avenue, Topeka, KS 66612	Phone #:	(913)634-0605
		E-Mail:	jake.humphrey@evergy.com
		Cc E-Mail:	skaney@haleyaldrich.com
Customer Project #:			
Project Name:	TEC BASA PERIMETER - DEEP	Invoice To:	Tecumseh Center
		Invoice E-Mail:	evergyap@onlinecapturecenter.com
Site Collection Info/Facility ID (as applicable):	Tecumseh Energy Center	Purchase Order # (if applicable):	WSTR-2000094802
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [X] CT [ ] ET

County / State origin of sample(s): Kansas

Data Deliverables:
[ ] Level II [ ] Level III [ ] Level IV
[ ] EQUIS
[ ] Other _____

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [ ] Yes [X] 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): [X] Yes [ ] No
Analysis: Metals, Dissolved; DOC

* 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	200.7/200.8 Diss Metals (FF)	200.7/200.8/6010 Total Metals	2320B Alkalinity	2540C Total Dissolved Solids	300.0 Cl,F,SO4,pH, NO2/NO3 (48 Hr Hold)	4500S2D Sulfide, Total	5310C Dissolved Organic Carbon (FF)	5310C TOC, Total Phosphorus	Iron, Ferrous	Sample Comment
Specify Container Size **										2	3	3	2	3	3	3	3	6	
Identify Container Preservative Type***										2	2	1	1	1	5,6	3	3	4	
Analysis Requested																			
MW-12D-091225	GW	Grab	-	-	9/12/2025	1235	10	-	-	X	X	X	X	X	X	X	X	X	
MW-20-091125	GW	Grab	-	-	9/11/2025	1410	10	-	-	X	X	X	X	X	X	X	X	X	
MW-21-091125	GW	Grab	-	-	9/11/2025	950	10	-	-	X	X	X	X	X	X	X	X	X	
MW-22-091125	GW	Grab	-	-	9/11/2025	1335	10	-	-	X	X	X	X	X	X	X	X	X	

**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: Alice Spiller
AcctNum / Client ID:
Table #:
Profile / Template: 16502
Prelog / Bottle Ord. ID: EZ 3295536

Preservation non-conformance identified for sample.

Additional Instructions from Pace®:
Please report to the MDL for Metals; Sulfide reported to 0.025 mg/L
Total Metals: B, Ca, As, Ba, Co, Cr, Pb, Li, Mo, Se, Mg, Na, K, Al, Fe, Mn, Hardness
Dissolved Metals: As, Co, Fe, Al, Mg, Mn

Collected By:
(Printed Name) Jason R. Franks
Signature: Jason R. Franks

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)	On Ice:
				4.1	

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
Jason R. Franks / SCS	09/12/2025 / 16:00	pace	9/12 1655	
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 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/

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

October 02, 2025

Jake Humphrey
Evergy, Inc.
818 S Kansas Avenue
Topeka, KS 66612

RE: Project: TEC BASA Perimeter Shallow
Pace Project No.: 60482368

Dear Jake Humphrey:

Enclosed are the analytical results for sample(s) received by the laboratory on September 12, 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,

Alice Spiller

Alice Spiller
alice.spiller@pacelabs.com
(913)599-5665
PM Lab Management

Enclosures

cc: Jordan Eichman, Haley & Aldrich, Inc.
Samantha Kaney, Haley & Aldrich
Melanie Satanek, Haley & Aldrich, Inc.
Adriana Sosa, Haley & Aldrich, Inc.
Nick Williams, Haley Aldrich

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CERTIFICATIONS

Project: TEC BASA Perimeter Shallow
Pace Project No.: 60482368

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

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SAMPLE SUMMARY

Project: TEC BASA Perimeter Shallow
Pace Project No.: 60482368

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60482368001	**MW-15-091125**	Water	09/11/25 12:30	09/12/25 16:55
60482368002	**MW-16-091125**	Water	09/11/25 11:00	09/12/25 16:55
60482368003	**MW-17-091125**	Water	09/11/25 14:50	09/12/25 16:55
60482368004	**MW-19-091125**	Water	09/11/25 11:45	09/12/25 16:55

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SAMPLE ANALYTE COUNT

Project: TEC BASA Perimeter Shallow
Pace Project No.: 60482368

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60482368001	**MW-15-091125**	EPA 200.7	ARMN	6	PASI-K
		EPA 200.7	ARMN	1	PASI-K
		EPA 6010	ARMN	1	PASI-K
		EPA 200.8	CJM	10	PASI-K
		EPA 200.8	CJM	5	PASI-K
		SM 2320B	EMB	3	PASI-K
		SM 2540C	CAR	1	PASI-K
		SM 3500-Fe B#4	IED	1	PASI-K
		SM 4500-H+B	EMB	1	PASI-K
		SM 4500-S-2 D	IED	1	PASI-K
		EPA 300.0	GTS	2	PASI-K
		EPA 300.0	GTS	3	PASI-K
		EPA 365.4	AKK	1	PASI-K
		SM 5310C	EFM	1	PASI-K
		SM 5310C	EMB	1	PASI-K
60482368002	**MW-16-091125**	EPA 200.7	ARMN	6	PASI-K
		EPA 200.7	ARMN	1	PASI-K
		EPA 6010	ARMN	1	PASI-K
		EPA 200.8	CJM	10	PASI-K
		EPA 200.8	CJM	5	PASI-K
		SM 2320B	EMB	3	PASI-K
		SM 2540C	CAR	1	PASI-K
		SM 3500-Fe B#4	IED	1	PASI-K
		SM 4500-H+B	EMB	1	PASI-K
		SM 4500-S-2 D	IED	1	PASI-K
		EPA 300.0	GTS	2	PASI-K
		EPA 300.0	GTS	3	PASI-K
		EPA 365.4	AKK	1	PASI-K
		SM 5310C	EFM	1	PASI-K
		SM 5310C	EMB	1	PASI-K
60482368003	**MW-17-091125**	EPA 200.7	ARMN	6	PASI-K
		EPA 200.7	ARMN	1	PASI-K
		EPA 6010	ARMN	1	PASI-K
		EPA 200.8	CJM	10	PASI-K
		EPA 200.8	CJM	5	PASI-K
		SM 2320B	EMB	3	PASI-K
		SM 2540C	CAR	1	PASI-K

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: TEC BASA Perimeter Shallow
Pace Project No.: 60482368

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 3500-Fe B#4	IED	1	PASI-K
		SM 4500-H+B	EMB	1	PASI-K
		SM 4500-S-2 D	IED	1	PASI-K
		EPA 300.0	GTS	2	PASI-K
		EPA 300.0	GTS, PL	3	PASI-K
		EPA 365.4	AKK	1	PASI-K
		SM 5310C	EFM	1	PASI-K
		SM 5310C	EMB	1	PASI-K
60482368004	**MW-19-091125**	EPA 200.7	ARMN	6	PASI-K
		EPA 200.7	ARMN	1	PASI-K
		EPA 6010	ARMN	1	PASI-K
		EPA 200.8	CJM	10	PASI-K
		EPA 200.8	CJM	5	PASI-K
		SM 2320B	EMB	3	PASI-K
		SM 2540C	CAR	1	PASI-K
		SM 3500-Fe B#4	IED	1	PASI-K
		SM 4500-H+B	EMB	1	PASI-K
		SM 4500-S-2 D	IED	1	PASI-K
		EPA 300.0	GTS	2	PASI-K
		EPA 300.0	GTS, PL	3	PASI-K
		EPA 365.4	AKK	1	PASI-K
		SM 5310C	EFM	1	PASI-K
		SM 5310C	EMB	1	PASI-K

PASI-K = Pace Analytical Services - Kansas City

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PROJECT NARRATIVE

Project: TEC BASA Perimeter Shallow
Pace Project No.: 60482368

Method: **EPA 200.7**
Description: 200.7 Metals, Total
Client: Evergy_Haley & Aldrich
Date: October 02, 2025

General Information:
4 samples were analyzed for EPA 200.7 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 200.7 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 948295

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60482368001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 3758582)
  - Calcium
- MSD (Lab ID: 3758583)
  - Calcium
  - Sodium

Additional Comments:

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(913)599-5665

PROJECT NARRATIVE

Project: TEC BASA Perimeter Shallow
Pace Project No.: 60482368

Method: **EPA 200.7**
Description: 200.7 Metals, Dissolved
Client: Evergy_Haley & Aldrich
Date: October 02, 2025

General Information:
4 samples were analyzed for EPA 200.7 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 200.7 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 948227

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60482367002

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 3758305)
  - Magnesium, Dissolved

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: TEC BASA Perimeter Shallow
Pace Project No.: 60482368

Method: **EPA 6010**
Description: 6010 MET ICP
Client: Evergy_Haley & Aldrich
Date: October 02, 2025

General Information:
4 samples were analyzed for EPA 6010 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

QC Batch: 948482

B: Analyte was detected in the associated method blank.

- BLANK for HBN 948482 [MPRP/888 (Lab ID: 3759399)
  - Lithium

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 948482

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60482367001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 3759401)
  - Lithium
- MSD (Lab ID: 3759402)
  - Lithium

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA Perimeter Shallow
Pace Project No.: 60482368

Method: **EPA 200.8**
Description: 200.8 MET ICPMS
Client: Evergy_Haley & Aldrich
Date: October 02, 2025

General Information:
4 samples were analyzed for EPA 200.8 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 200.8 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 948298

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60482368002

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 3758587)
  - Manganese
- MSD (Lab ID: 3758588)
  - Iron
  - Manganese

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA Perimeter Shallow
Pace Project No.: 60482368

Method: **EPA 200.8**
Description: 200.8 MET ICPMS, Dissolved
Client: Evergy_Haley & Aldrich
Date: October 02, 2025

General Information:
4 samples were analyzed for EPA 200.8 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 200.8 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA Perimeter Shallow
Pace Project No.: 60482368

Method: **SM 2320B**
Description: 2320B Alkalinity
Client: Evergy_Haley & Aldrich
Date: October 02, 2025

General Information:
4 samples were analyzed for SM 2320B by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA Perimeter Shallow
Pace Project No.: 60482368

Method: **SM 2540C**
Description: 2540C Total Dissolved Solids
Client: Evergy_Haley & Aldrich
Date: October 02, 2025

General Information:
4 samples were analyzed for SM 2540C by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA Perimeter Shallow
Pace Project No.: 60482368

Method: **SM 3500-Fe B#4**
Description: Iron, Ferrous
Client: Evergy_Haley & Aldrich
Date: October 02, 2025

General Information:
4 samples were analyzed for SM 3500-Fe B#4 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

H6: Analysis initiated outside of the 15 minute EPA required holding time.
- MW-15-091125 (Lab ID: 60482368001)
- MW-16-091125 (Lab ID: 60482368002)
- MW-17-091125 (Lab ID: 60482368003)
- MW-19-091125 (Lab ID: 60482368004)

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA Perimeter Shallow
Pace Project No.: 60482368

Method: **SM 4500-H+B**
Description: 4500H+ pH, Electrometric
Client: Evergy_Haley & Aldrich
Date: October 02, 2025

General Information:
4 samples were analyzed for SM 4500-H+B by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

H3: Sample was received or analysis requested beyond the recognized method holding time.
- MW-15-091125 (Lab ID: 60482368001)
- MW-16-091125 (Lab ID: 60482368002)
- MW-17-091125 (Lab ID: 60482368003)
- MW-19-091125 (Lab ID: 60482368004)

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA Perimeter Shallow
Pace Project No.: 60482368

Method: **SM 4500-S-2 D**
Description: 4500S2D Sulfide, Total
Client: Evergy_Haley & Aldrich
Date: October 02, 2025

General Information:
4 samples were analyzed for SM 4500-S-2 D by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA Perimeter Shallow
Pace Project No.: 60482368

Method: **EPA 300.0**
Description: 300.0 IC Anions
Client: Evergy_Haley & Aldrich
Date: October 02, 2025

General Information:
4 samples were analyzed for EPA 300.0 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 947985

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60482368002

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 3757581)
  - Nitrite as N
- MSD (Lab ID: 3757582)
  - Nitrite as N

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA Perimeter Shallow
Pace Project No.: 60482368

Method: **EPA 300.0**
Description: 300.0 IC Anions 28 Days
Client: Evergy_Haley & Aldrich
Date: October 02, 2025

General Information:
4 samples were analyzed for EPA 300.0 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 949616

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60482367001,60482395001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 3763572)
  - Fluoride
- MS (Lab ID: 3763574)
  - Fluoride
  - Sulfate
- MSD (Lab ID: 3763573)
  - Fluoride

QC Batch: 949729

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60482367002,60482480002

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 3764044)
  - Sulfate

R1: RPD value was outside control limits.

- MSD (Lab ID: 3764045)
  - Sulfate

Additional Comments:

Analyte Comments:

QC Batch: 949616

E: Analyte concentration exceeded the calibration range. The reported result is estimated.

- MS (Lab ID: 3763574)
  - Sulfate

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: TEC BASA Perimeter Shallow
Pace Project No.: 60482368

Method: **EPA 365.4**
Description: 365.4 Total Phosphorus
Client: Evergy_Haley & Aldrich
Date: October 02, 2025

General Information:
4 samples were analyzed for EPA 365.4 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 365.4 with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

QC Batch: 949246

B: Analyte was detected in the associated method blank.
- BLANK for HBN 949246 [WETA/110 (Lab ID: 3762057)
  - Phosphorus

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA Perimeter Shallow
Pace Project No.: 60482368

Method: **SM 5310C**
Description: 5310C TOC
Client: Evergy_Haley & Aldrich
Date: October 02, 2025

General Information:
4 samples were analyzed for SM 5310C by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

QC Batch: 948213

D6: The precision between the sample and sample duplicate exceeded laboratory control limits.

- DUP (Lab ID: 3758271)
  - Total Organic Carbon

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA Perimeter Shallow
Pace Project No.: 60482368

Method: **SM 5310C**
Description: 5310C Dissolved Organic Carbon
Client: Evergy_Haley & Aldrich
Date: October 02, 2025

General Information:
4 samples were analyzed for SM 5310C by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: TEC BASA Perimeter Shallow
Pace Project No.: 60482368

Sample: MW-15-091125 **Lab ID: 60482368001** Collected: 09/11/25 12:30 Received: 09/12/25 16:55 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								
Boron, Total Recoverable	**0.14**	mg/L	0.10	0.033	1	09/17/25 08:17	10/02/25 10:58	7440-42-8	
Calcium, Total Recoverable	**245**	mg/L	0.20	0.045	1	09/17/25 08:17	10/02/25 10:58	7440-70-2	M1,P6
Magnesium, Total Recoverable	**35.9**	mg/L	0.050	0.021	1	09/17/25 08:17	10/02/25 10:58	7439-95-4	
Potassium, Total Recoverable	**5.7**	mg/L	0.50	0.045	1	09/17/25 08:17	10/02/25 10:58	7440-09-7	
Sodium, Total Recoverable	**69.0**	mg/L	0.50	0.032	1	09/17/25 08:17	10/02/25 10:58	7440-23-5	M1,P6
Total Hardness by 2340B, Total Recoverable	**759**	mg/L	0.50	0.20	1	09/17/25 08:17	10/02/25 10:58		
200.7 Metals, Dissolved	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City								
Magnesium, Dissolved	**37.4**	mg/L	0.050	0.021	1	09/17/25 08:17	09/30/25 18:19	7439-95-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Kansas City								
Lithium, Total Recoverable	**0.035**	mg/L	0.010	0.0018	1	09/18/25 09:00	09/30/25 18:41	7439-93-2	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Aluminum, Total Recoverable	**0.15**	mg/L	0.050	0.0082	1	09/17/25 08:17	09/19/25 14:03	7429-90-5	
Arsenic, Total Recoverable	**0.00069J**	mg/L	0.0010	0.00013	1	09/17/25 08:17	09/19/25 14:03	7440-38-2	
Barium, Total Recoverable	**0.086**	mg/L	0.0010	0.00021	1	09/17/25 08:17	09/19/25 14:03	7440-39-3	
Chromium, Total Recoverable	**0.00065J**	mg/L	0.0010	0.00034	1	09/17/25 08:17	09/19/25 14:03	7440-47-3	
Cobalt, Total Recoverable	**0.00037J**	mg/L	0.0010	0.00010	1	09/17/25 08:17	09/19/25 14:03	7440-48-4	
Iron, Total Recoverable	**0.50**	mg/L	0.050	0.0044	1	09/17/25 08:17	09/19/25 14:03	7439-89-6	
Lead, Total Recoverable	**<0.00023**	mg/L	0.0010	0.00023	1	09/17/25 08:17	09/19/25 14:03	7439-92-1	
Manganese, Total Recoverable	**0.13**	mg/L	0.0010	0.00052	1	09/17/25 08:17	09/19/25 14:03	7439-96-5	
Molybdenum, Total Recoverable	**0.0013**	mg/L	0.0010	0.00016	1	09/17/25 08:17	09/19/25 14:03	7439-98-7	
Selenium, Total Recoverable	**0.00043J**	mg/L	0.0010	0.00019	1	09/17/25 08:17	09/19/25 14:03	7782-49-2	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Aluminum, Dissolved	**<0.0082**	mg/L	0.050	0.0082	1	09/17/25 08:17	09/19/25 15:46	7429-90-5	
Arsenic, Dissolved	**0.00047J**	mg/L	0.0010	0.00013	1	09/17/25 08:17	09/19/25 15:46	7440-38-2	
Cobalt, Dissolved	**0.00029J**	mg/L	0.0010	0.00010	1	09/17/25 08:17	09/19/25 15:46	7440-48-4	
Iron, Dissolved	**0.011J**	mg/L	0.050	0.0044	1	09/17/25 08:17	09/19/25 15:46	7439-89-6	
Manganese, Dissolved	**0.10**	mg/L	0.0010	0.00052	1	09/17/25 08:17	09/19/25 15:46	7439-96-5	
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Kansas City								
Alkalinity,Bicarbonate (CaCO3)	**568**	mg/L	20.0	10.5	1		09/16/25 16:09		
Alkalinity,Carbonate (CaCO3)	**<10.5**	mg/L	20.0	10.5	1		09/16/25 16:09		
Alkalinity, Total as CaCO3	**568**	mg/L	20.0	10.5	1		09/16/25 16:09		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TEC BASA Perimeter Shallow
Pace Project No.: 60482368

Sample: MW-15-091125 **Lab ID: 60482368001** Collected: 09/11/25 12:30 Received: 09/12/25 16:55 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	**1010**	mg/L	20.0	20.0	1		09/18/25 15:50		
Iron, Ferrous	Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City								
Iron, Ferrous	**0.47**	mg/L	0.20	0.041	1		09/15/25 12:05	15438-31-0	H6
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Kansas City								
pH at 25 Degrees C	**6.9**	Std. Units	0.10	0.10	1		09/15/25 14:21		H3
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		09/15/25 14:31	18496-25-8	
300.0 IC Anions	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City								
Nitrate as N	**<0.055**	mg/L	0.10	0.055	1		09/13/25 05:46	14797-55-8	
Nitrite as N	**<0.035**	mg/L	0.10	0.035	1		09/13/25 05:46	14797-65-0	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City								
Chloride	**170**	mg/L	10.0	7.7	10		09/26/25 19:10	16887-00-6	
Fluoride	**<0.16**	mg/L	0.20	0.16	1		09/26/25 18:57	16984-48-8	
Sulfate	**116**	mg/L	10.0	4.3	10		09/26/25 19:10	14808-79-8	
365.4 Total Phosphorus	Analytical Method: EPA 365.4 Preparation Method: EPA 365.4 Pace Analytical Services - Kansas City								
Phosphorus	**0.094J**	mg/L	0.10	0.071	1	09/25/25 11:45	09/26/25 16:42	7723-14-0	B
5310C TOC	Analytical Method: SM 5310C Pace Analytical Services - Kansas City								
Total Organic Carbon	**<0.54**	mg/L	1.0	0.54	1		09/29/25 12:32	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C Pace Analytical Services - Kansas City								
Dissolved Organic Carbon	**2.1**	mg/L	1.0	0.54	1		09/16/25 03:55		

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ANALYTICAL RESULTS

Project: TEC BASA Perimeter Shallow
Pace Project No.: 60482368

Sample: MW-16-091125 **Lab ID: 60482368002** Collected: 09/11/25 11:00 Received: 09/12/25 16:55 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								
Boron, Total Recoverable	**0.59**	mg/L	0.10	0.033	1	09/17/25 08:17	10/02/25 11:04	7440-42-8	
Calcium, Total Recoverable	**222**	mg/L	0.20	0.045	1	09/17/25 08:17	10/02/25 11:04	7440-70-2	
Magnesium, Total Recoverable	**31.6**	mg/L	0.050	0.021	1	09/17/25 08:17	10/02/25 11:04	7439-95-4	
Potassium, Total Recoverable	**2.9**	mg/L	0.50	0.045	1	09/17/25 08:17	10/02/25 11:04	7440-09-7	
Sodium, Total Recoverable	**168**	mg/L	0.50	0.032	1	09/17/25 08:17	10/02/25 11:04	7440-23-5	
Total Hardness by 2340B, Total Recoverable	**685**	mg/L	0.50	0.20	1	09/17/25 08:17	10/02/25 11:04		
200.7 Metals, Dissolved	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City								
Magnesium, Dissolved	**28.1**	mg/L	0.050	0.021	1	09/17/25 08:17	09/30/25 17:53	7439-95-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Kansas City								
Lithium, Total Recoverable	**0.019**	mg/L	0.010	0.0018	1	09/18/25 09:00	09/30/25 18:49	7439-93-2	B
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Aluminum, Total Recoverable	**1.2**	mg/L	0.050	0.0082	1	09/17/25 08:17	09/19/25 13:51	7429-90-5	
Arsenic, Total Recoverable	**0.016**	mg/L	0.0010	0.00013	1	09/17/25 08:17	09/19/25 13:51	7440-38-2	
Barium, Total Recoverable	**0.074**	mg/L	0.0010	0.00021	1	09/17/25 08:17	09/19/25 13:51	7440-39-3	
Chromium, Total Recoverable	**0.0021**	mg/L	0.0010	0.00034	1	09/17/25 08:17	09/19/25 13:51	7440-47-3	
Cobalt, Total Recoverable	**0.0044**	mg/L	0.0010	0.00010	1	09/17/25 08:17	09/19/25 13:51	7440-48-4	
Iron, Total Recoverable	**6.9**	mg/L	0.050	0.0044	1	09/17/25 08:17	09/19/25 13:51	7439-89-6	M1
Lead, Total Recoverable	**0.00096J**	mg/L	0.0010	0.00023	1	09/17/25 08:17	09/19/25 13:51	7439-92-1	
Manganese, Total Recoverable	**2.8**	mg/L	0.0010	0.00052	1	09/17/25 08:17	09/19/25 13:51	7439-96-5	M1
Molybdenum, Total Recoverable	**0.0049**	mg/L	0.0010	0.00016	1	09/17/25 08:17	09/19/25 13:51	7439-98-7	
Selenium, Total Recoverable	**0.00052J**	mg/L	0.0010	0.00019	1	09/17/25 08:17	09/19/25 13:51	7782-49-2	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Aluminum, Dissolved	**<0.0082**	mg/L	0.050	0.0082	1	09/17/25 08:17	09/19/25 15:49	7429-90-5	
Arsenic, Dissolved	**0.015**	mg/L	0.0010	0.00013	1	09/17/25 08:17	09/19/25 15:49	7440-38-2	
Cobalt, Dissolved	**0.0034**	mg/L	0.0010	0.00010	1	09/17/25 08:17	09/19/25 15:49	7440-48-4	
Iron, Dissolved	**5.3**	mg/L	0.050	0.0044	1	09/17/25 08:17	09/19/25 15:49	7439-89-6	
Manganese, Dissolved	**2.6**	mg/L	0.0010	0.00052	1	09/17/25 08:17	09/19/25 15:49	7439-96-5	
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Kansas City								
Alkalinity,Bicarbonate (CaCO3)	**515**	mg/L	20.0	10.5	1		09/16/25 16:16		
Alkalinity,Carbonate (CaCO3)	**<10.5**	mg/L	20.0	10.5	1		09/16/25 16:16		
Alkalinity, Total as CaCO3	**515**	mg/L	20.0	10.5	1		09/16/25 16:16		

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ANALYTICAL RESULTS

Project: TEC BASA Perimeter Shallow
Pace Project No.: 60482368

Sample: MW-16-091125 **Lab ID: 60482368002** Collected: 09/11/25 11:00 Received: 09/12/25 16:55 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	**1180**	mg/L	20.0	20.0	1		09/18/25 15:50		
Iron, Ferrous	Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City								
Iron, Ferrous	**6.4**	mg/L	0.40	0.082	1		09/15/25 12:05	15438-31-0	H6
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Kansas City								
pH at 25 Degrees C	**6.9**	Std. Units	0.10	0.10	1		09/15/25 14:21		H3
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D Pace Analytical Services - Kansas City								
Sulfide, Total	**0.038J**	mg/L	0.050	0.016	1		09/15/25 14:31	18496-25-8	
300.0 IC Anions	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City								
Nitrate as N	**0.056J**	mg/L	0.10	0.055	1		09/13/25 03:41	14797-55-8	
Nitrite as N	**<0.035**	mg/L	0.10	0.035	1		09/13/25 03:41	14797-65-0	M1
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City								
Chloride	**198**	mg/L	10.0	7.7	10		09/26/25 19:49	16887-00-6	
Fluoride	**<0.16**	mg/L	0.20	0.16	1		09/26/25 19:36	16984-48-8	
Sulfate	**245**	mg/L	100	43.1	100		09/26/25 20:02	14808-79-8	
365.4 Total Phosphorus	Analytical Method: EPA 365.4 Preparation Method: EPA 365.4 Pace Analytical Services - Kansas City								
Phosphorus	**0.39**	mg/L	0.10	0.071	1	09/25/25 11:45	09/26/25 16:44	7723-14-0	B
5310C TOC	Analytical Method: SM 5310C Pace Analytical Services - Kansas City								
Total Organic Carbon	**1.0**	mg/L	1.0	0.54	1		09/29/25 13:00	7440-44-0	D6
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C Pace Analytical Services - Kansas City								
Dissolved Organic Carbon	**1.8**	mg/L	1.0	0.54	1		09/16/25 04:09		

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ANALYTICAL RESULTS

Project: TEC BASA Perimeter Shallow
Pace Project No.: 60482368

Sample: MW-17-091125 **Lab ID: 60482368003** Collected: 09/11/25 14:50 Received: 09/12/25 16:55 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								
Boron, Total Recoverable	**0.54**	mg/L	0.10	0.033	1	09/17/25 08:17	10/02/25 11:06	7440-42-8	
Calcium, Total Recoverable	**164**	mg/L	0.20	0.045	1	09/17/25 08:17	10/02/25 11:06	7440-70-2	
Magnesium, Total Recoverable	**23.4**	mg/L	0.050	0.021	1	09/17/25 08:17	10/02/25 11:06	7439-95-4	
Potassium, Total Recoverable	**6.7**	mg/L	0.50	0.045	1	09/17/25 08:17	10/02/25 11:06	7440-09-7	
Sodium, Total Recoverable	**90.3**	mg/L	0.50	0.032	1	09/17/25 08:17	10/02/25 11:06	7440-23-5	
Total Hardness by 2340B, Total Recoverable	**506**	mg/L	0.50	0.20	1	09/17/25 08:17	10/02/25 11:06		
200.7 Metals, Dissolved	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City								
Magnesium, Dissolved	**23.1**	mg/L	0.050	0.021	1	09/17/25 08:17	09/30/25 17:55	7439-95-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Kansas City								
Lithium, Total Recoverable	**0.031**	mg/L	0.010	0.0018	1	09/18/25 09:00	09/30/25 18:51	7439-93-2	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Aluminum, Total Recoverable	**0.63**	mg/L	0.050	0.0082	1	09/17/25 08:17	09/19/25 14:06	7429-90-5	
Arsenic, Total Recoverable	**0.0013**	mg/L	0.0010	0.00013	1	09/17/25 08:17	09/19/25 14:06	7440-38-2	
Barium, Total Recoverable	**0.084**	mg/L	0.0010	0.00021	1	09/17/25 08:17	09/19/25 14:06	7440-39-3	
Chromium, Total Recoverable	**0.0012**	mg/L	0.0010	0.00034	1	09/17/25 08:17	09/19/25 14:06	7440-47-3	
Cobalt, Total Recoverable	**0.0015**	mg/L	0.0010	0.00010	1	09/17/25 08:17	09/19/25 14:06	7440-48-4	
Iron, Total Recoverable	**0.98**	mg/L	0.050	0.0044	1	09/17/25 08:17	09/19/25 14:06	7439-89-6	
Lead, Total Recoverable	**0.00071J**	mg/L	0.0010	0.00023	1	09/17/25 08:17	09/19/25 14:06	7439-92-1	
Manganese, Total Recoverable	**1.3**	mg/L	0.0010	0.00052	1	09/17/25 08:17	09/19/25 14:06	7439-96-5	
Molybdenum, Total Recoverable	**0.0085**	mg/L	0.0010	0.00016	1	09/17/25 08:17	09/19/25 14:06	7439-98-7	
Selenium, Total Recoverable	**0.057**	mg/L	0.0010	0.00019	1	09/17/25 08:17	09/19/25 14:06	7782-49-2	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Aluminum, Dissolved	**<0.0082**	mg/L	0.050	0.0082	1	09/17/25 08:17	09/19/25 15:56	7429-90-5	
Arsenic, Dissolved	**0.00081J**	mg/L	0.0010	0.00013	1	09/17/25 08:17	09/19/25 15:56	7440-38-2	
Cobalt, Dissolved	**0.00037J**	mg/L	0.0010	0.00010	1	09/17/25 08:17	09/19/25 15:56	7440-48-4	
Iron, Dissolved	**0.0049J**	mg/L	0.050	0.0044	1	09/17/25 08:17	09/19/25 15:56	7439-89-6	
Manganese, Dissolved	**0.81**	mg/L	0.0010	0.00052	1	09/17/25 08:17	09/19/25 15:56	7439-96-5	
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Kansas City								
Alkalinity,Bicarbonate (CaCO3)	**415**	mg/L	20.0	10.5	1		09/16/25 16:22		
Alkalinity,Carbonate (CaCO3)	**<10.5**	mg/L	20.0	10.5	1		09/16/25 16:22		
Alkalinity, Total as CaCO3	**415**	mg/L	20.0	10.5	1		09/16/25 16:22		

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ANALYTICAL RESULTS

Project: TEC BASA Perimeter Shallow
Pace Project No.: 60482368

Sample: MW-17-091125 **Lab ID: 60482368003** Collected: 09/11/25 14:50 Received: 09/12/25 16:55 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	**880**	mg/L	13.3	13.3	1		09/18/25 15:50		
Iron, Ferrous	Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City								
Iron, Ferrous	**0.46**	mg/L	0.20	0.041	1		09/15/25 12:05	15438-31-0	H6
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Kansas City								
pH at 25 Degrees C	**7.1**	Std. Units	0.10	0.10	1		09/15/25 14:21		H3
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D Pace Analytical Services - Kansas City								
Sulfide, Total	**0.029J**	mg/L	0.050	0.016	1		09/15/25 14:31	18496-25-8	
300.0 IC Anions	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City								
Nitrate as N	**0.95**	mg/L	0.10	0.055	1		09/13/25 06:12	14797-55-8	
Nitrite as N	**<0.035**	mg/L	0.10	0.035	1		09/13/25 06:12	14797-65-0	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City								
Chloride	**24.7**	mg/L	10.0	7.7	10		09/26/25 20:28	16887-00-6	
Fluoride	**<0.16**	mg/L	0.20	0.16	1		09/26/25 20:15	16984-48-8	
Sulfate	**276**	mg/L	100	55.0	100		09/27/25 16:15	14808-79-8	
365.4 Total Phosphorus	Analytical Method: EPA 365.4 Preparation Method: EPA 365.4 Pace Analytical Services - Kansas City								
Phosphorus	**0.30**	mg/L	0.10	0.071	1	09/25/25 11:45	09/26/25 16:46	7723-14-0	B
5310C TOC	Analytical Method: SM 5310C Pace Analytical Services - Kansas City								
Total Organic Carbon	**1.5**	mg/L	1.0	0.54	1		09/29/25 13:14	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C Pace Analytical Services - Kansas City								
Dissolved Organic Carbon	**3.7**	mg/L	1.0	0.54	1		09/16/25 04:24		

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ANALYTICAL RESULTS

Project: TEC BASA Perimeter Shallow
Pace Project No.: 60482368

Sample: MW-19-091125 **Lab ID: 60482368004** Collected: 09/11/25 11:45 Received: 09/12/25 16:55 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								
Boron, Total Recoverable	**0.46**	mg/L	0.10	0.033	1	09/17/25 08:17	10/02/25 11:07	7440-42-8	
Calcium, Total Recoverable	**472**	mg/L	0.20	0.045	1	09/17/25 08:17	10/02/25 11:07	7440-70-2	
Magnesium, Total Recoverable	**77.5**	mg/L	0.050	0.021	1	09/17/25 08:17	10/02/25 11:07	7439-95-4	
Potassium, Total Recoverable	**14.9**	mg/L	0.50	0.045	1	09/17/25 08:17	10/02/25 11:07	7440-09-7	
Sodium, Total Recoverable	**116**	mg/L	0.50	0.032	1	09/17/25 08:17	10/02/25 11:07	7440-23-5	
Total Hardness by 2340B, Total Recoverable	**1500**	mg/L	0.50	0.20	1	09/17/25 08:17	10/02/25 11:07		
200.7 Metals, Dissolved	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City								
Magnesium, Dissolved	**60.8**	mg/L	0.050	0.021	1	09/17/25 08:17	09/30/25 17:57	7439-95-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Kansas City								
Lithium, Total Recoverable	**0.10**	mg/L	0.010	0.0018	1	09/18/25 09:00	09/30/25 18:52	7439-93-2	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Aluminum, Total Recoverable	**40.3**	mg/L	0.050	0.0082	1	09/17/25 08:17	09/19/25 14:52	7429-90-5	
Arsenic, Total Recoverable	**0.038**	mg/L	0.0010	0.00013	1	09/17/25 08:17	09/19/25 14:52	7440-38-2	
Barium, Total Recoverable	**0.53**	mg/L	0.0010	0.00021	1	09/17/25 08:17	09/19/25 14:52	7440-39-3	
Chromium, Total Recoverable	**0.053**	mg/L	0.0010	0.00034	1	09/17/25 08:17	09/19/25 14:52	7440-47-3	
Cobalt, Total Recoverable	**0.087**	mg/L	0.0010	0.00010	1	09/17/25 08:17	09/19/25 14:52	7440-48-4	
Iron, Total Recoverable	**87.9**	mg/L	0.050	0.0044	1	09/17/25 08:17	09/19/25 14:52	7439-89-6	
Lead, Total Recoverable	**0.055**	mg/L	0.0010	0.00023	1	09/17/25 08:17	09/19/25 14:52	7439-92-1	
Manganese, Total Recoverable	**7.1**	mg/L	0.0010	0.00052	1	09/17/25 08:17	09/19/25 14:52	7439-96-5	
Molybdenum, Total Recoverable	**0.0025**	mg/L	0.0010	0.00016	1	09/17/25 08:17	09/19/25 14:52	7439-98-7	
Selenium, Total Recoverable	**0.025**	mg/L	0.0010	0.00019	1	09/17/25 08:17	09/19/25 14:52	7782-49-2	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Aluminum, Dissolved	**<0.0082**	mg/L	0.050	0.0082	1	09/17/25 08:17	09/19/25 15:59	7429-90-5	
Arsenic, Dissolved	**0.010**	mg/L	0.0010	0.00013	1	09/17/25 08:17	09/19/25 15:59	7440-38-2	
Cobalt, Dissolved	**0.012**	mg/L	0.0010	0.00010	1	09/17/25 08:17	09/19/25 15:59	7440-48-4	
Iron, Dissolved	**6.4**	mg/L	0.050	0.0044	1	09/17/25 08:17	09/19/25 15:59	7439-89-6	
Manganese, Dissolved	**4.2**	mg/L	0.0010	0.00052	1	09/17/25 08:17	09/19/25 15:59	7439-96-5	
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Kansas City								
Alkalinity,Bicarbonate (CaCO3)	**308**	mg/L	20.0	10.5	1		09/16/25 16:28		
Alkalinity,Carbonate (CaCO3)	**<10.5**	mg/L	20.0	10.5	1		09/16/25 16:28		
Alkalinity, Total as CaCO3	**308**	mg/L	20.0	10.5	1		09/16/25 16:28		

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ANALYTICAL RESULTS

Project: TEC BASA Perimeter Shallow
Pace Project No.: 60482368

Sample: MW-19-091125 **Lab ID: 60482368004** Collected: 09/11/25 11:45 Received: 09/12/25 16:55 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	**2330**	mg/L	66.7	66.7	1		09/18/25 15:50		
Iron, Ferrous	Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City								
Iron, Ferrous	**36.5**	mg/L	2.5	0.51	1		09/15/25 12:05	15438-31-0	H6
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Kansas City								
pH at 25 Degrees C	**6.7**	Std. Units	0.10	0.10	1		09/15/25 14:21		H3
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D Pace Analytical Services - Kansas City								
Sulfide, Total	**3.2**	mg/L	0.25	0.078	1		09/15/25 14:31	18496-25-8	
300.0 IC Anions	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City								
Nitrate as N	**0.94**	mg/L	0.10	0.055	1		09/13/25 05:21	14797-55-8	
Nitrite as N	**0.86**	mg/L	0.10	0.035	1		09/13/25 05:21	14797-65-0	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City								
Chloride	**40.6**	mg/L	20.0	15.3	20		09/26/25 20:54	16887-00-6	
Fluoride	**<0.16**	mg/L	0.20	0.16	1		09/26/25 20:41	16984-48-8	
Sulfate	**1020**	mg/L	200	110	200		09/27/25 16:28	14808-79-8	
365.4 Total Phosphorus	Analytical Method: EPA 365.4 Preparation Method: EPA 365.4 Pace Analytical Services - Kansas City								
Phosphorus	**4.7**	mg/L	0.10	0.071	1	09/25/25 11:45	09/26/25 16:49	7723-14-0	
5310C TOC	Analytical Method: SM 5310C Pace Analytical Services - Kansas City								
Total Organic Carbon	**1.7**	mg/L	1.0	0.54	1		09/29/25 14:11	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C Pace Analytical Services - Kansas City								
Dissolved Organic Carbon	**2.9**	mg/L	1.0	0.54	1		09/16/25 04:38		

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QUALITY CONTROL DATA

Project: TEC BASA Perimeter Shallow
Pace Project No.: 60482368

QC Batch: 948295
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: 60482368001, 60482368002, 60482368003, 60482368004

METHOD BLANK: 3758580 Matrix: Water
Associated Lab Samples: 60482368001, 60482368002, 60482368003, 60482368004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Boron	mg/L	<0.033	0.10	0.033	10/02/25 10:55	
Calcium	mg/L	<0.045	0.20	0.045	10/02/25 10:55	
Hardness, Total(SM 2340B)	mg/L	<0.20	0.50	0.20	10/02/25 10:55	
Magnesium	mg/L	<0.021	0.050	0.021	10/02/25 10:55	
Potassium	mg/L	<0.045	0.50	0.045	10/02/25 10:55	
Sodium	mg/L	<0.032	0.50	0.032	10/02/25 10:55	

LABORATORY CONTROL SAMPLE: 3758581

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	mg/L	1	0.94	94	85-115	
Calcium	mg/L	10	10.1	101	85-115	
Hardness, Total(SM 2340B)	mg/L	66.2	66.6	101	85-115	
Magnesium	mg/L	10	10.0	100	85-115	
Potassium	mg/L	10	9.9	99	85-115	
Sodium	mg/L	10	9.9	99	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3758582 3758583

Parameter	Units	60482368001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Boron	mg/L	0.14	1	1	1.1	1.1	94	91	70-130	3	20	
Calcium	mg/L	245	10	10	249	242	48	-22	70-130	3	20	M1
Hardness, Total(SM 2340B)	mg/L	759	66.2	66.2	808	786	74	42	70-130	3	20	
Magnesium	mg/L	35.9	10	10	44.9	43.9	90	80	70-130	2	20	
Potassium	mg/L	5.7	10	10	15.7	15.1	100	94	70-130	4	20	
Sodium	mg/L	69.0	10	10	78.0	75.6	90	66	70-130	3	20	M1

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QUALITY CONTROL DATA

Project: TEC BASA Perimeter Shallow
Pace Project No.: 60482368

QC Batch: 948227
QC Batch Method: EPA 200.7
Analysis Method: EPA 200.7
Analysis Description: 200.7 Metals, Dissolved
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60482368001, 60482368002, 60482368003, 60482368004

METHOD BLANK: 3758303 Matrix: Water
Associated Lab Samples: 60482368001, 60482368002, 60482368003, 60482368004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Magnesium, Dissolved	mg/L	<0.021	0.050	0.021	09/30/25 18:04	

LABORATORY CONTROL SAMPLE: 3758304

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Magnesium, Dissolved	mg/L	10	9.7	97	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3758305 3758306

Parameter	Units	60482367002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Magnesium, Dissolved	mg/L	77.7	10	10	91.9	88.0	142	104	70-130	4	20	M1,P6

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QUALITY CONTROL DATA

Project: TEC BASA Perimeter Shallow
Pace Project No.: 60482368

QC Batch: 948298
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: 60482368001, 60482368002, 60482368003, 60482368004

METHOD BLANK: 3758585 Matrix: Water
Associated Lab Samples: 60482368001, 60482368002, 60482368003, 60482368004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Aluminum	mg/L	<0.0082	0.050	0.0082	09/19/25 13:45	
Arsenic	mg/L	<0.00013	0.0010	0.00013	09/19/25 13:45	
Barium	mg/L	<0.00021	0.0010	0.00021	09/19/25 13:45	
Chromium	mg/L	<0.00034	0.0010	0.00034	09/19/25 13:45	
Cobalt	mg/L	<0.00010	0.0010	0.00010	09/19/25 13:45	
Iron	mg/L	<0.0044	0.050	0.0044	09/19/25 13:45	
Lead	mg/L	<0.00023	0.0010	0.00023	09/19/25 13:45	
Manganese	mg/L	<0.00052	0.0010	0.00052	09/19/25 13:45	
Molybdenum	mg/L	<0.00016	0.0010	0.00016	09/19/25 13:45	
Selenium	mg/L	<0.00019	0.0010	0.00019	09/19/25 13:45	

LABORATORY CONTROL SAMPLE: 3758586

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	mg/L	1	1.0	100	85-115	
Arsenic	mg/L	0.04	0.036	89	85-115	
Barium	mg/L	0.04	0.041	102	85-115	
Chromium	mg/L	0.04	0.037	93	85-115	
Cobalt	mg/L	0.04	0.039	98	85-115	
Iron	mg/L	1	0.96	96	85-115	
Lead	mg/L	0.04	0.040	101	85-115	
Manganese	mg/L	0.04	0.042	104	85-115	
Molybdenum	mg/L	0.04	0.041	101	85-115	
Selenium	mg/L	0.04	0.040	100	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3758587 3758588

Parameter	Units	60482368002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum	mg/L	1.2	1	1	2.2	2.1	106	94	70-130	5	20	
Arsenic	mg/L	0.016	0.04	0.04	0.050	0.050	86	86	70-130	0	20	
Barium	mg/L	0.074	0.04	0.04	0.11	0.11	102	93	70-130	3	20	
Chromium	mg/L	0.0021	0.04	0.04	0.038	0.038	89	89	70-130	0	20	
Cobalt	mg/L	0.0044	0.04	0.04	0.046	0.046	105	103	70-130	1	20	
Iron	mg/L	6.9	1	1	7.8	7.6	87	69	70-130	2	20	M1
Lead	mg/L	0.00096J	0.04	0.04	0.035	0.035	84	84	70-130	0	20	
Manganese	mg/L	2.8	0.04	0.04	2.8	2.7	16	-243	70-130	4	20	M1

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QUALITY CONTROL DATA

Project: TEC BASA Perimeter Shallow
Pace Project No.: 60482368

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3758587 3758588

Parameter	Units	60482368002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Molybdenum	mg/L	0.0049	0.04	0.04	0.051	0.051	115	114	70-130	0	20	
Selenium	mg/L	0.00052J	0.04	0.04	0.038	0.038	92	94	70-130	1	20	

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QUALITY CONTROL DATA

Project: TEC BASA Perimeter Shallow
Pace Project No.: 60482368

QC Batch: 948232
QC Batch Method: EPA 200.8
Analysis Method: EPA 200.8
Analysis Description: 200.8 MET Dissolved
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60482368001, 60482368002, 60482368003, 60482368004

METHOD BLANK: 3758342 Matrix: Water
Associated Lab Samples: 60482368001, 60482368002, 60482368003, 60482368004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Aluminum, Dissolved	mg/L	<0.0082	0.050	0.0082	09/19/25 15:15	
Arsenic, Dissolved	mg/L	<0.00013	0.0010	0.00013	09/19/25 15:15	
Cobalt, Dissolved	mg/L	<0.00010	0.0010	0.00010	09/19/25 15:15	
Iron, Dissolved	mg/L	<0.0044	0.050	0.0044	09/19/25 15:15	
Manganese, Dissolved	mg/L	<0.00052	0.0010	0.00052	09/19/25 15:15	

LABORATORY CONTROL SAMPLE: 3758343

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	mg/L	1	0.96	96	85-115	
Arsenic, Dissolved	mg/L	0.04	0.035	87	85-115	
Cobalt, Dissolved	mg/L	0.04	0.038	94	85-115	
Iron, Dissolved	mg/L	1	0.95	95	85-115	
Manganese, Dissolved	mg/L	0.04	0.040	100	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3758344 3758345

Parameter	Units	60482367001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum, Dissolved	mg/L	<0.082	1	1	1.3	1.3	128	130	70-130	1	20	
Arsenic, Dissolved	mg/L	<0.0013	0.04	0.04	0.037	0.036	90	89	70-130	1	20	
Cobalt, Dissolved	mg/L	0.0020J	0.04	0.04	0.044	0.044	104	104	70-130	0	20	
Iron, Dissolved	mg/L	<0.044	1	1	1.2	1.2	112	112	70-130	1	20	
Manganese, Dissolved	mg/L	0.14	0.04	0.04	0.18	0.19	107	110	70-130	1	20	

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QUALITY CONTROL DATA

Project: TEC BASA Perimeter Shallow
Pace Project No.: 60482368

QC Batch: 948482
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60482368001, 60482368002, 60482368003, 60482368004

METHOD BLANK: 3759399 Matrix: Water
Associated Lab Samples: 60482368001, 60482368002, 60482368003, 60482368004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Lithium	mg/L	0.0030J	0.010	0.0018	09/30/25 18:26	

LABORATORY CONTROL SAMPLE: 3759400

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lithium	mg/L	1	1.0	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3759401 3759402

Parameter	Units	60482367001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lithium	mg/L	0.21	2	2	1.3	1.3	53	52	75-125	0	20	M1

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QUALITY CONTROL DATA

Project: TEC BASA Perimeter Shallow
Pace Project No.: 60482368

QC Batch: 948216
QC Batch Method: SM 2320B
Analysis Method: SM 2320B
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60482368001, 60482368002, 60482368003, 60482368004

METHOD BLANK: 3758272 Matrix: Water
Associated Lab Samples: 60482368001, 60482368002, 60482368003, 60482368004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<10.5	20.0	10.5	09/16/25 15:34	
Alkalinity,Bicarbonate (CaCO3)	mg/L	<10.5	20.0	10.5	09/16/25 15:34	
Alkalinity,Carbonate (CaCO3)	mg/L	<10.5	20.0	10.5	09/16/25 15:34	

LABORATORY CONTROL SAMPLE: 3758273

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	500	482	96	90-110	

SAMPLE DUPLICATE: 3758274

Parameter	Units	60482368001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	568	563	1	10	
Alkalinity,Bicarbonate (CaCO3)	mg/L	568	563	1	10	
Alkalinity,Carbonate (CaCO3)	mg/L	<10.5	<10.5		10	

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QUALITY CONTROL DATA

Project: TEC BASA Perimeter Shallow
Pace Project No.: 60482368

QC Batch: 948546
QC Batch Method: SM 2540C
Analysis Method: SM 2540C
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60482368001, 60482368002, 60482368003, 60482368004

METHOD BLANK: 3759546 Matrix: Water
Associated Lab Samples: 60482368001, 60482368002, 60482368003, 60482368004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<5.0	5.0	5.0	09/18/25 15:50	

LABORATORY CONTROL SAMPLE: 3759547

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	1000	1020	102	80-120	

SAMPLE DUPLICATE: 3759548

Parameter	Units	60482368001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1010	1020	1	10	

SAMPLE DUPLICATE: 3759549

Parameter	Units	60482405001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	3250	3290	1	10	

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QUALITY CONTROL DATA

Project: TEC BASA Perimeter Shallow
Pace Project No.: 60482368

QC Batch: 948089
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: 60482368001, 60482368002, 60482368003, 60482368004

METHOD BLANK: 3757941 Matrix: Water
Associated Lab Samples: 60482368001, 60482368002, 60482368003, 60482368004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Iron, Ferrous	mg/L	<0.041	0.20	0.041	09/15/25 12:05	H6

LABORATORY CONTROL SAMPLE: 3757942

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Ferrous	mg/L	2	2.0	100	90-110	H6

SAMPLE DUPLICATE: 3757943

Parameter	Units	60482368002 Result	Dup Result	RPD	Max RPD	Qualifiers
Iron, Ferrous	mg/L	6.4	6.5	1	20	H6

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QUALITY CONTROL DATA

Project: TEC BASA Perimeter Shallow
Pace Project No.: 60482368

QC Batch: 948063
QC Batch Method: SM 4500-H+B
Analysis Method: SM 4500-H+B
Analysis Description: 4500H+B pH
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60482368001, 60482368002, 60482368003, 60482368004

SAMPLE DUPLICATE: 3757897

Parameter	Units	60482385002 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	6.8	6.8	0	5	H1

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QUALITY CONTROL DATA

Project: TEC BASA Perimeter Shallow
Pace Project No.: 60482368

QC Batch: 948125
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: 60482368001, 60482368002, 60482368003, 60482368004

METHOD BLANK: 3758071 Matrix: Water
Associated Lab Samples: 60482368001, 60482368002, 60482368003, 60482368004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide, Total	mg/L	<0.016	0.050	0.016	09/15/25 14:31	

LABORATORY CONTROL SAMPLE: 3758072

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	0.5	0.50	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3758074 3758075

Parameter	Units	60482368001 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	0.48	0.48	94	95	75-125	1	20	

SAMPLE DUPLICATE: 3758073

Parameter	Units	60482368001 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	<0.016	<0.016		20	

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QUALITY CONTROL DATA

Project: TEC BASA Perimeter Shallow
Pace Project No.: 60482368

QC Batch: 947985
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: 60482368001, 60482368002, 60482368003, 60482368004

METHOD BLANK: 3757579 Matrix: Water
Associated Lab Samples: 60482368001, 60482368002, 60482368003, 60482368004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrate as N	mg/L	<0.055	0.10	0.055	09/13/25 03:16	
Nitrite as N	mg/L	<0.035	0.10	0.035	09/13/25 03:16	

LABORATORY CONTROL SAMPLE: 3757580

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrate as N	mg/L	2	1.9	95	90-110	
Nitrite as N	mg/L	2	1.9	93	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3757581 3757582

Parameter	Units	60482368002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrate as N	mg/L	0.056J	2	2	1.7	1.7	84	84	80-120	1	15	
Nitrite as N	mg/L	<0.035	2	2	1.4	1.4	68	68	80-120	0	15	M1

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REPORT OF LABORATORY ANALYSIS

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9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: TEC BASA Perimeter Shallow
Pace Project No.: 60482368

QC Batch: 949616
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: 60482368001, 60482368002, 60482368003, 60482368004

METHOD BLANK: 3763570 Matrix: Water
Associated Lab Samples: 60482368001, 60482368002, 60482368003, 60482368004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	<0.77	1.0	0.77	09/26/25 08:54	
Fluoride	mg/L	<0.16	0.20	0.16	09/26/25 08:54	
Sulfate	mg/L	<0.43	1.0	0.43	09/26/25 08:54	

LABORATORY CONTROL SAMPLE: 3763571

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.6	92	90-110	
Fluoride	mg/L	2.5	2.4	97	90-110	
Sulfate	mg/L	5	4.8	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3763572 3763573

Parameter	Units	60482367001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	7900	5000	5000	12500	12600	92	95	80-120	1	15	
Fluoride	mg/L	<0.16	2.5	2.5	<0.16	<0.16	0	0	80-120		15	M1
Sulfate	mg/L	1230	2000	2000	3110	3120	94	95	80-120	0	15	

MATRIX SPIKE SAMPLE: 3763574

Parameter	Units	60482395001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	61.5	100	149	87	80-120	
Fluoride	mg/L	33.5	50	69.6	72	80-120	M1
Sulfate	mg/L	7550	1000	9610	323	80-120	E,M1

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QUALITY CONTROL DATA

Project: TEC BASA Perimeter Shallow
Pace Project No.: 60482368

QC Batch: 949729
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: 60482368003, 60482368004

METHOD BLANK: 3764042 Matrix: Water
Associated Lab Samples: 60482368003, 60482368004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfate	mg/L	<0.55	1.0	0.55	09/27/25 15:01	

LABORATORY CONTROL SAMPLE: 3764043

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	5	4.9	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3764044 3764045

Parameter	Units	60482367002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	1220	5000	5000	4410	6030	64	96	80-120	31	15	M1,R1

MATRIX SPIKE SAMPLE: 3764046

Parameter	Units	60482480002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	614	500	1150	108	80-120	

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QUALITY CONTROL DATA

Project: TEC BASA Perimeter Shallow
Pace Project No.: 60482368

QC Batch: 949246
QC Batch Method: EPA 365.4
Analysis Method: EPA 365.4
Analysis Description: 365.4 Phosphorus
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60482368001, 60482368002, 60482368003, 60482368004

METHOD BLANK: 3762057 Matrix: Water
Associated Lab Samples: 60482368001, 60482368002, 60482368003, 60482368004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Phosphorus	mg/L	0.077J	0.10	0.071	09/26/25 16:04	

LABORATORY CONTROL SAMPLE: 3762058

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphorus	mg/L	5	5.2	104	80-120	

MATRIX SPIKE SAMPLE: 3762059

Parameter	Units	60482561001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phosphorus	mg/L	0.12	5	4.9	96	80-120	

MATRIX SPIKE SAMPLE: 3762061

Parameter	Units	60482368004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phosphorus	mg/L	4.7	5	9.5	95	80-120	

SAMPLE DUPLICATE: 3762301

Parameter	Units	60482367001 Result	Dup Result	RPD	Max RPD	Qualifiers
Phosphorus	mg/L	0.082J	<0.071		10	

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QUALITY CONTROL DATA

Project: TEC BASA Perimeter Shallow
Pace Project No.: 60482368

QC Batch: 948213
QC Batch Method: SM 5310C
Analysis Method: SM 5310C
Analysis Description: 5310C Total Organic Carbon
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60482368001, 60482368002, 60482368003, 60482368004

METHOD BLANK: 3758268 Matrix: Water
Associated Lab Samples: 60482368001, 60482368002, 60482368003, 60482368004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Organic Carbon	mg/L	<0.54	1.0	0.54	09/29/25 12:04	

LABORATORY CONTROL SAMPLE: 3758269

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	5	5.1	103	80-120	

MATRIX SPIKE SAMPLE: 3758270

Parameter	Units	60482368002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	1.0	5	6.7	114	80-120	

SAMPLE DUPLICATE: 3758271

Parameter	Units	60482368002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Organic Carbon	mg/L	1.0	1.5	41	25	D6

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QUALITY CONTROL DATA

Project: TEC BASA Perimeter Shallow
Pace Project No.: 60482368

QC Batch: 948069
QC Batch Method: SM 5310C
Analysis Method: SM 5310C
Analysis Description: 5310C Dissolved Organic Carbon
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60482368001, 60482368002, 60482368003, 60482368004

METHOD BLANK: 3757915 Matrix: Water
Associated Lab Samples: 60482368001, 60482368002, 60482368003, 60482368004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Dissolved Organic Carbon	mg/L	<0.54	1.0	0.54	09/16/25 01:06	

LABORATORY CONTROL SAMPLE: 3757916

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	5	5.1	103	80-120	

MATRIX SPIKE SAMPLE: 3757917

Parameter	Units	60482281004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	ND	5	5.2	85	80-120	

SAMPLE DUPLICATE: 3757918

Parameter	Units	60482281004 Result	Dup Result	RPD	Max RPD	Qualifiers
Dissolved Organic Carbon	mg/L	ND	0.76J		25	

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QUALIFIERS

Project: TEC BASA Perimeter Shallow
Pace Project No.: 60482368

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

B	Analyte was detected in the associated method blank.
D6	The precision between the sample and sample duplicate exceeded laboratory control limits.
E	Analyte concentration exceeded the calibration range. The reported result is estimated.
H1	Analysis conducted outside the EPA method holding time.
H3	Sample was received or analysis requested beyond the recognized 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.
P6	Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.
R1	RPD value was outside control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: TEC BASA Perimeter Shallow
Pace Project No.: 60482368

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60482368001	**MW-15-091125**	EPA 200.7	948295	EPA 200.7	950145
60482368002	**MW-16-091125**	EPA 200.7	948295	EPA 200.7	950145
60482368003	**MW-17-091125**	EPA 200.7	948295	EPA 200.7	950145
60482368004	**MW-19-091125**	EPA 200.7	948295	EPA 200.7	950145
60482368001	**MW-15-091125**	EPA 200.7	948227	EPA 200.7	948431
60482368002	**MW-16-091125**	EPA 200.7	948227	EPA 200.7	948431
60482368003	**MW-17-091125**	EPA 200.7	948227	EPA 200.7	948431
60482368004	**MW-19-091125**	EPA 200.7	948227	EPA 200.7	948431
60482368001	**MW-15-091125**	EPA 3010	948482	EPA 6010	948612
60482368002	**MW-16-091125**	EPA 3010	948482	EPA 6010	948612
60482368003	**MW-17-091125**	EPA 3010	948482	EPA 6010	948612
60482368004	**MW-19-091125**	EPA 3010	948482	EPA 6010	948612
60482368001	**MW-15-091125**	EPA 200.8	948298	EPA 200.8	948434
60482368002	**MW-16-091125**	EPA 200.8	948298	EPA 200.8	948434
60482368003	**MW-17-091125**	EPA 200.8	948298	EPA 200.8	948434
60482368004	**MW-19-091125**	EPA 200.8	948298	EPA 200.8	948434
60482368001	**MW-15-091125**	EPA 200.8	948232	EPA 200.8	948436
60482368002	**MW-16-091125**	EPA 200.8	948232	EPA 200.8	948436
60482368003	**MW-17-091125**	EPA 200.8	948232	EPA 200.8	948436
60482368004	**MW-19-091125**	EPA 200.8	948232	EPA 200.8	948436
60482368001	**MW-15-091125**	SM 2320B	948216		
60482368002	**MW-16-091125**	SM 2320B	948216		
60482368003	**MW-17-091125**	SM 2320B	948216		
60482368004	**MW-19-091125**	SM 2320B	948216		
60482368001	**MW-15-091125**	SM 2540C	948546		
60482368002	**MW-16-091125**	SM 2540C	948546		
60482368003	**MW-17-091125**	SM 2540C	948546		
60482368004	**MW-19-091125**	SM 2540C	948546		
60482368001	**MW-15-091125**	SM 3500-Fe B#4	948089		
60482368002	**MW-16-091125**	SM 3500-Fe B#4	948089		
60482368003	**MW-17-091125**	SM 3500-Fe B#4	948089		
60482368004	**MW-19-091125**	SM 3500-Fe B#4	948089		
60482368001	**MW-15-091125**	SM 4500-H+B	948063		
60482368002	**MW-16-091125**	SM 4500-H+B	948063		
60482368003	**MW-17-091125**	SM 4500-H+B	948063		
60482368004	**MW-19-091125**	SM 4500-H+B	948063		
60482368001	**MW-15-091125**	SM 4500-S-2 D	948125		
60482368002	**MW-16-091125**	SM 4500-S-2 D	948125		
60482368003	**MW-17-091125**	SM 4500-S-2 D	948125		
60482368004	**MW-19-091125**	SM 4500-S-2 D	948125		
60482368001	**MW-15-091125**	EPA 300.0	947985		
60482368002	**MW-16-091125**	EPA 300.0	947985		
60482368003	**MW-17-091125**	EPA 300.0	947985		
60482368004	**MW-19-091125**	EPA 300.0	947985		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: TEC BASA Perimeter Shallow
Pace Project No.: 60482368

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60482368001	**MW-15-091125**	EPA 300.0	949616		
60482368002	**MW-16-091125**	EPA 300.0	949616		
60482368003	**MW-17-091125**	EPA 300.0	949616		
60482368003	**MW-17-091125**	EPA 300.0	949729		
60482368004	**MW-19-091125**	EPA 300.0	949616		
60482368004	**MW-19-091125**	EPA 300.0	949729		
60482368001	**MW-15-091125**	EPA 365.4	949246	EPA 365.4	949854
60482368002	**MW-16-091125**	EPA 365.4	949246	EPA 365.4	949854
60482368003	**MW-17-091125**	EPA 365.4	949246	EPA 365.4	949854
60482368004	**MW-19-091125**	EPA 365.4	949246	EPA 365.4	949854
60482368001	**MW-15-091125**	SM 5310C	948213		
60482368002	**MW-16-091125**	SM 5310C	948213		
60482368003	**MW-17-091125**	SM 5310C	948213		
60482368004	**MW-19-091125**	SM 5310C	948213		
60482368001	**MW-15-091125**	SM 5310C	948069		
60482368002	**MW-16-091125**	SM 5310C	948069		
60482368003	**MW-17-091125**	SM 5310C	948069		
60482368004	**MW-19-091125**	SM 5310C	948069		

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Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-LENE-0009_Sa	WO# : 60482368
	Revision: 2	Effective Date: 01/12/

Client Name: Evergy Kansas Central, Inc.

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 ☐ ZPLC

Thermometer Used: T301 **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: 9/12/25 SA

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	NOX
Rush Turn Around Time requested:	☐Yes ☑No ☐N/A	
Sufficient volume:	☑Yes ☑No ☐N/A	Limited volume for 5310C dissolved organic
Correct containers used:	☑Yes ☐No ☐N/A	~~NO~~ JA 9/12 Sample 1
Pace containers used:	☑Yes ☐No ☐N/A	no volume for 2540C sample 1
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#: 88727, 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

60482368

Scan QR Code for instructions

Company Name:	Evergy Kansas Central, Inc.	Contact/Report To:	Jake Humphrey
Street Address:	818 S Kansas Avenue, Topeka, KS 66612	Phone #:	(913)634-0605
		E-Mail:	jake.humphrey@evergy.com
		Cc E-Mail:	skaney@haleyaldrich.com
Customer Project #:			
Project Name:	TEC BASA PERIMETER - SHALLOW	Invoice To:	Tecumseh Center
		Invoice E-Mail:	evergyap@onlinecapturecenter.com
Site Collection Info/Facility ID (as applicable):	Tecumseh Energy Center	Purchase Order # (if applicable):	WSTR-2000094802
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [X] CT [ ] ET

County / State origin of sample(s): Kansas

Data Deliverables:
[ ] Level II [ ] Level III [ ] Level IV
[ ] EQUIS
[ ] Other _____

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [ ] Yes [X] 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): [X] Yes [ ] No
Analysis: Metals, Dissolved; DOC

* 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	200.7/200.8 Diss Metals (FF)	200.7/200.8/6010 Total Metals	2320B Alkalinity	2540C Total Dissolved Solids	300.0 Cl,F,SO4,pH, NO2/NO3 (48 Hr Hold)	4500S2D Sulfide, Total	5310C Dissolved Organic Carbon (FF)	5310C TOC, Total Phosphorus	Iron, Ferrous		Sample Comment
Specify Container Size **										2	3	3	2	3	3	3	3	6		
Identify Container Preservative Type***										2	2	1	1	1	5,6	3	3	4		
MW-15-091125	GW	Grab	-	-	9/11/2025	1230	10	-	-	X	X	X	X	X	X	X	X	X		
MW-16-091125	GW	Grab	-	-	9/11/2025	1100	10	-	-	X	X	X	X	X	X	X	X	X		
MW-17-091125	GW	Grab	-	-	9/11/2025	1450	10	-	-	X	X	X	X	X	X	X	X	X		
MW-19-091125	GW	Grab	-	-	9/11/2025	1145	10	-	-	X	X	X	X	X	X	X	X	X		

**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: Alice Spiller
AcctNum / Client ID:
Table #:
Profile / Template: 16502
Prelog / Bottle Ord. ID: EZ 3295307

Preservation non-conformance identified for sample.

Additional Instructions from Pace®:
Sulfide reported to 0.025 mg/L
Total Metals; B, Ca, As, Ba, Co, Cr, Pb, Li, Mo, Se , Mg, Na , K, Al, Fe, Mn, Hardness
Dissolved Metals: As, Co, Fe, Al, Mg, Mn

Collected By: (Printed Name) Jason R. Franks
Signature: Jason R. Franks

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)	On Ice:
	T361	0.0	0.8	0.8	

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Jason R. Franks / SCS	09/12/2025 / 16:00	JA Pace	9/12/25 1655

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

October 08, 2025

Jake Humphrey
Evergy, Inc.
818 S Kansas Avenue
Topeka, KS 66612

RE: Project: TEC BASA Perimeter Deep RAD
Pace Project No.: 60482369

Dear Jake Humphrey:

Enclosed are the analytical results for sample(s) received by the laboratory on September 12, 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 - Greensburg

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

Sincerely,

Alice Spiller

Alice Spiller
alice.spiller@pacelabs.com
(913)599-5665
PM Lab Management

Enclosures

cc: Jordan Eichman, Haley & Aldrich, Inc.
Samantha Kaney, Haley & Aldrich
Melanie Satanek, Haley & Aldrich, Inc.
Adriana Sosa, Haley & Aldrich, Inc.
Nick Williams, Haley Aldrich

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CERTIFICATIONS

Project: TEC BASA Perimeter Deep RAD
Pace Project No.: 60482369

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

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SAMPLE SUMMARY

Project: TEC BASA Perimeter Deep RAD
Pace Project No.: 60482369

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60482369001	**MW-12D-091225**	Water	09/12/25 12:35	09/12/25 16:55
60482369002	**MW-20-091125**	Water	09/11/25 14:10	09/12/25 16:55
60482369003	**MW-21-091125**	Water	09/11/25 09:50	09/12/25 16:55
60482369004	**MW-22-091125**	Water	09/11/25 13:35	09/12/25 16:55

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: TEC BASA Perimeter Deep RAD
Pace Project No.: 60482369

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60482369001	**MW-12D-091225**	EPA 903.1	DSO	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
60482369002	**MW-20-091125**	EPA 903.1	DSO	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
60482369003	**MW-21-091125**	EPA 903.1	DSO	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
60482369004	**MW-22-091125**	EPA 903.1	DSO	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

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PROJECT NARRATIVE

Project: TEC BASA Perimeter Deep RAD
Pace Project No.: 60482369

Method: **EPA 903.1**
Description: 903.1 Radium 226
Client: Evergy_Haley & Aldrich
Date: October 08, 2025

General Information:
4 samples were analyzed for EPA 903.1 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA Perimeter Deep RAD
Pace Project No.: 60482369

Method: **EPA 904.0**
Description: 904.0 Radium 228
Client: Evergy_Haley & Aldrich
Date: October 08, 2025

General Information:
4 samples were analyzed for EPA 904.0 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA Perimeter Deep RAD
Pace Project No.: 60482369

Method: **Total Radium Calculation**
Description: Total Radium 228+226
Client: Evergy_Haley & Aldrich
Date: October 08, 2025

General Information:
4 samples were analyzed for Total Radium Calculation by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: TEC BASA Perimeter Deep RAD
Pace Project No.: 60482369

Sample: MW-12D-091225 **Lab ID: 60482369001** Collected: 09/12/25 12:35 Received: 09/12/25 16:55 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	**3.67 ± 1.05 (0.785) C:NA T:91%**	pCi/L	10/02/25 16:04	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**9.17 ± 1.86 (0.788) C:82% T:85%**	pCi/L	10/01/25 14:37	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**12.8 ± 2.14 (0.788)**	pCi/L	10/03/25 10:32	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: TEC BASA Perimeter Deep RAD
Pace Project No.: 60482369

Sample: MW-20-091125 **Lab ID: 60482369002** Collected: 09/11/25 14:10 Received: 09/12/25 16:55 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	**4.94 ± 1.22 (0.611) C:NA T:93%**	pCi/L	10/02/25 16:04	13982-63-3	
		Pace Analytical Services - Greensburg				
Radium-228	EPA 904.0	**7.89 ± 1.62 (0.773) C:79% T:91%**	pCi/L	10/01/25 14:37	15262-20-1	
		Pace Analytical Services - Greensburg				
Total Radium	Total Radium Calculation	**12.8 ± 2.03 (0.773)**	pCi/L	10/03/25 10:32	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: TEC BASA Perimeter Deep RAD
Pace Project No.: 60482369

Sample: MW-21-091125 **Lab ID: 60482369003** Collected: 09/11/25 09:50 Received: 09/12/25 16:55 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	**5.04 ± 1.17 (0.144) C:NA T:91%**	pCi/L	10/02/25 16:04	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**10.0 ± 1.98 (0.705) C:81% T:92%**	pCi/L	10/01/25 14:37	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**15.0 ± 2.30 (0.705)**	pCi/L	10/03/25 10:32	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: TEC BASA Perimeter Deep RAD
Pace Project No.: 60482369

Sample: MW-22-091125 **Lab ID: 60482369004** Collected: 09/11/25 13:35 Received: 09/12/25 16:55 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	**5.81 ± 1.36 (0.740) C:NA T:95%**	pCi/L	10/02/25 16:04	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**8.24 ± 1.70 (0.870) C:85% T:86%**	pCi/L	10/01/25 14:38	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**14.1 ± 2.18 (0.870)**	pCi/L	10/03/25 10:32	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: TEC BASA Perimeter Deep RAD
Pace Project No.: 60482369

QC Batch: 771835
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: 60482369001, 60482369002, 60482369003, 60482369004

METHOD BLANK: 3762825 Matrix: Water
Associated Lab Samples: 60482369001, 60482369002, 60482369003, 60482369004

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.759 ± 0.383 (0.656) C:88% T:85%	pCi/L	10/01/25 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.

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QUALITY CONTROL - RADIOCHEMISTRY

Project: TEC BASA Perimeter Deep RAD
Pace Project No.: 60482369

QC Batch: 771834
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: 60482369001, 60482369002, 60482369003, 60482369004

METHOD BLANK: 3762824 Matrix: Water
Associated Lab Samples: 60482369001, 60482369002, 60482369003, 60482369004

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0388 ± 0.177 (0.361) C:NA T:99%	pCi/L	10/02/25 15:40	

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.

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QUALIFIERS

Project: TEC BASA Perimeter Deep RAD
Pace Project No.: 60482369

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.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: TEC BASA Perimeter Deep RAD
Pace Project No.: 60482369

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60482369001	**MW-12D-091225**	EPA 903.1	771834		
60482369002	**MW-20-091125**	EPA 903.1	771834		
60482369003	**MW-21-091125**	EPA 903.1	771834		
60482369004	**MW-22-091125**	EPA 903.1	771834		
60482369001	**MW-12D-091225**	EPA 904.0	771835		
60482369002	**MW-20-091125**	EPA 904.0	771835		
60482369003	**MW-21-091125**	EPA 904.0	771835		
60482369004	**MW-22-091125**	EPA 904.0	771835		
60482369001	**MW-12D-091225**	Total Radium Calculation	774945		
60482369002	**MW-20-091125**	Total Radium Calculation	774945		
60482369003	**MW-21-091125**	Total Radium Calculation	774945		
60482369004	**MW-22-091125**	Total Radium Calculation	774945		

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WO# : 60482369

60482369

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

Client Name: Evergy

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** 23.4 **Corr. Factor** — **Corrected** 23.4

Date and initials of person examining contents: DF 9/13

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#:** 916888	☒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

L604823 69

Scan QR Code for instructions

Company Name:	Evergy Kansas Central, Inc.	Contact/Report To:	Jake Humphrey
Street Address:	818 S Kansas Avenue, Topeka, KS 66612	Phone #:	(913)634-0605
		E-Mail:	jake.humphrey@evergy.com
		Cc E-Mail:	skaney@haleyaldrich.com
Customer Project #:			
Project Name:	TEC BASA PERIMETER - DEEP RADCHEM	Invoice To:	Tecumseh Center
		Invoice E-Mail:	evergyap@onlinecapturecenter.com
Site Collection Info/Facility ID (as applicable):	Tecumseh Energy Center	Purchase Order # (if applicable):	WSTR-2000094802
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [X] CT [ ] ET

County / State origin of sample(s): Kansas

Data Deliverables:
[ ] Level II [ ] Level III [ ] Level IV
[ ] EQUIS
[ ] Other _____

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [ ] Yes [X] 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 [X] 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

Identify Container Preservative Type***: 2 2

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	Radium 226, Radium 228, Radium 226/228 Combined Calc., QC Sheets	Sample Comment
MW-12D-091225	GW	Grab	-	-	9/12/2025	1235	2	-	-	X	
MW-20-091125	GW	Grab	-	-	9/11/2025	1410	2	-	-	X	
MW-21-091125	GW	Grab	-	-	9/11/2025	950	2	-	-	X	
MW-22-091125	GW	Grab	-	-	9/11/2025	1335	2	-	-	X	

**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: Alice Spiller
AcctNum / Client ID:
Table #:
Profile / Template: 16502
Prelog / Bottle Ord. ID: EZ 3295535

Preservation non-conformance identified for sample.

Additional Instructions from Pace®:

Collected By: (Printed Name) Jason R. Franks

Signature: Jason R. Franks

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)	On Ice:
				23.9	

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
Jason R. Franks / SCS	09/12/2025 / 16:00	pace	9/12 1655	
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 1

Page 17 of 22

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: Evergy

Profile/EZ # EZ 3295535

Site: TEC BASA Perimeter - Deep Radchem

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																						2										
3																						2										
4																						2										
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#: 60482369**

PM: AS **Due Date: 10/13/25**

CLIENT: Evergy_Haley

Internal Transfer Chain of Custody

☐ Rush Multiplier____X
☐ Samples Pre-Logged into eCOC

State Of Origin: KS
Cert. Needed: ☒ Yes ☐ No
Owner Received Date: 9/12/2025 **Results Requested By:** 10/13/2025

Workorder: 60482369 **Workorder Name:** TEC BASA Perimeter Deep RAD

Report To	Subcontract To
Alice Spiller Pace Analytical Kansas 9608 Loiret Blvd. Lenexa, KS 66219 Phone (913)599-5665	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						QC Sheets	Radium 226	Radium 228, and combined										LAB USE ONLY
1	MW-12D-091225	PS	9/12/2025 12:35	60482369001	Water	2						X	X	X										001
2	MW-20-091125	PS	9/11/2025 14:10	60482369002	Water	2						X	X	X										002
3	MW-21-091125	PS	9/11/2025 09:50	60482369003	Water	2						X	X	X										003
4	MW-22-091125	PS	9/11/2025 13:35	60482369004	Water	2						X	X	X										004
5																								

Transfers	Released By	Date/Time	Received By	Date/Time
1	DF Pace	9/16 1700	[signature]	9/17/25 9:30
2				
3				

Comments

Location: 60-R01-S1A

Cooler Temperature on Receipt 3.6 °C PS 9/18/25 | **Custody Seal** Y or (N) | **Received on Ice** (Y) or (N) PS 9/18/25 | **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# : 30811126

30811126

DC#_Title: ENV-FRM-GBUR-0088 v09_Sample C
Greensburg

Effective Date: 06/24/2025

WO# : 30811126

PM: CMC Due Date: 10/08/25
CLIENT: PACE_GO_LEKS

Client Name: Pace - ICS Project ...

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other

Tracking Number: 4453 8936 8964

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

Therm. Used: 25 Type of Ice: (Wet) Blue None

Cooler Temp: Observed Temp 3.7 °C Correction Factor: -0.1 °C Final Temp: 3.6 °C

Temp should be above freezing to 6°C

Initial / Date	
Examined By:	PS 9/18/25
Labeled By:	PS 9/18/25
Temped By:	PS 9/17/25

Comments:	Yes	No	NA
Chain of Custody Present	✓		
Chain of Custody Filled Out:	✓		
-Were client corrections present on COC		✓	
Chain of Custody Relinquished	✓		
Sampler Name & Signature on COC:		✓	
Sample Labels match COC:	✓		
-Includes date/time/ID Matrix: WT			
Samples Arrived within Hold Time:	✓		
Short Hold Time Analysis (<72hr remaining):		✓	
Rush Turn Around Time Requested:		✓	
Sufficient Volume:	✓		
Correct Containers Used:	✓		
-Pace Containers Used	✓		
Containers Intact:	✓		
Orthophosphate field filtered:			✓
Hex Cr Aqueous samples field filtered:			✓
Organic Samples checked for dechlorination			✓
Filtered volume received for dissolved tests: **Cr6+, Orthophosphate, DOC, Metals**			✓
All containers checked for preservation: exceptions: VOA, coliform, TOC, O&G, TOX, LL Hg, Radon, non-aqueous matrix	✓		
All containers meet method preservation requirements:	✓		
8260C/D: Headspace in VOA Vials (> 6mm)			✓
624.1: Headspace in VOA Vials (0mm)			✓
Radon: Headspace in RAD Vials (0mm)			✓
Trip Blank Present:			✓
Rad Samples Screened <.05 mrem/hr.	✓		

pH paper Lot# 10043241 D.P.D. Residual Chlorine Lot #: —

1.
2.
3.
4.
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6.
7.
8.
9.
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11.
12.
13.
14:
15:
16. PH<2

Initial when completed PS Date/Time of Preservation
Lot# of added Preservative

17.
18.
19.

Trip blank custody seal present? YES or NO

Initial when completed PS Date: 9/17/25 Survey Meter SN: 2501380

Comments: ~~Received without COC 9/17/25 9:30~~ PS 9/18/25

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.

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Test: Ra-226
Analyst: DSO
Date: 9/24/2025
Batch ID: 87149
Matrix: WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3762824
MB concentration:	0.039
MB 2 Sigma CSU:	0.177
MB MDC:	0.361
MB Numerical Performance Indicator:	0.43
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	N/A

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS87149	LCSD87149
Count Date:	10/2/2025	10/2/2025
Spike I.D.:	25-038	25-038
Spike Concentration (pCi/mL):	31.876	31.876
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.656	0.655
Target Conc. (pCi/L, g, F):	4.857	4.868
Uncertainty (Calculated):	0.228	0.229
Result (pCi/L, g, F):	4.500	4.277
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	1.004	0.964
Numerical Performance Indicator:	-0.68	-1.17
Percent Recovery:	92.65%	87.86%
Status vs Numerical Indicator:	Pass	Pass
Status vs Recovery:	N/A	N/A
Upper % Recovery Limits:	133%	133%
Lower % Recovery Limits:	73%	73%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS87149	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD87149	
Sample Result (pCi/L, g, F):	4.500	
Sample Result 2 Sigma CSU (pCi/L, g, F):	1.004	
Sample Duplicate Result (pCi/L, g, F):	4.277	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.964	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	0.314	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	5.31%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	N/A	
% RPD Limit:	32%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the RL.

Comments:

DD 10/2/25

TH 10.3.25

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Test:	Ra-228
Analyst:	JJS1
Date:	9/25/2025
Worklist:	87150
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3762825
MB concentration:	0.759
M/B 2 Sigma CSU:	0.383
MB MDC:	0.656
MB Numerical Performance Indicator:	3.89
MB Status vs Numerical Indicator:	Fail*
MB Status vs. MDC:	See Comment*

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS87150	LCSD87150
Count Date:	10/1/2025	10/1/2025
Spike I.D.:	23-043	23-043
Decay Corrected Spike Concentration (pCi/mL):	31.114	31.114
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.815	0.817
Target Conc. (pCi/L, g, F):	3.817	3.809
Uncertainty (Calculated):	0.187	0.187
Result (pCi/L, g, F):	3.394	2.474
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.857	0.704
Numerical Performance Indicator:	-0.94	-3.59
Percent Recovery:	88.93%	64.96%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS87150	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD87150	
Sample Result (pCi/L, g, F):	3.394	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.857	
Sample Duplicate Result (pCi/L, g, F):	2.474	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.704	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	1.625	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	31.15%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	36%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:
*The method blank result is below the reporting limit for this analysis and is acceptable.

VAL
10/2/25

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

October 08, 2025

Jake Humphrey
Evergy, Inc.
818 S Kansas Avenue
Topeka, KS 66612

RE: Project: TEC BASA Perimeter Shallow RAD
Pace Project No.: 60482370

Dear Jake Humphrey:

Enclosed are the analytical results for sample(s) received by the laboratory on September 12, 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 - Greensburg

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

Sincerely,

Alice Spiller

Alice Spiller
alice.spiller@pacelabs.com
(913)599-5665
PM Lab Management

Enclosures

cc: Jordan Eichman, Haley & Aldrich, Inc.
Samantha Kaney, Haley & Aldrich
Melanie Satanek, Haley & Aldrich, Inc.
Adriana Sosa, Haley & Aldrich, Inc.
Nick Williams, Haley Aldrich

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

CERTIFICATIONS

Project: TEC BASA Perimeter Shallow RAD
Pace Project No.: 60482370

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

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Lenexa, KS 66219
(913)599-5665

SAMPLE SUMMARY

Project: TEC BASA Perimeter Shallow RAD
Pace Project No.: 60482370

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60482370001	**MW-15-091125**	Water	09/11/25 12:30	09/12/25 16:55
60482370002	**MW-16-091125**	Water	09/11/25 11:00	09/12/25 16:55
60482370003	**MW-17-091125**	Water	09/11/25 14:50	09/12/25 16:55
60482370004	**MW-19-091125**	Water	09/11/25 11:45	09/12/25 16:55
60482370005	**MW-18-091125**	Water	09/11/25 10:30	09/12/25 16:55

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Lenexa, KS 66219
(913)599-5665

SAMPLE ANALYTE COUNT

Project: TEC BASA Perimeter Shallow RAD
Pace Project No.: 60482370

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60482370001	**MW-15-091125**	EPA 903.1	TMY	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
60482370002	**MW-16-091125**	EPA 903.1	TMY	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
60482370003	**MW-17-091125**	EPA 903.1	TMY	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
60482370004	**MW-19-091125**	EPA 903.1	TMY	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
60482370005	**MW-18-091125**	EPA 903.1	TMY	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

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9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

PROJECT NARRATIVE

Project: TEC BASA Perimeter Shallow RAD
Pace Project No.: 60482370

Method: **EPA 903.1**
Description: 903.1 Radium 226
Client: Evergy_Haley & Aldrich
Date: October 08, 2025

General Information:
5 samples were analyzed for EPA 903.1 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA Perimeter Shallow RAD
Pace Project No.: 60482370

Method: **EPA 904.0**
Description: 904.0 Radium 228
Client: Evergy_Haley & Aldrich
Date: October 08, 2025

General Information:
5 samples were analyzed for EPA 904.0 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA Perimeter Shallow RAD
Pace Project No.: 60482370

Method: **Total Radium Calculation**
Description: Total Radium 228+226
Client: Evergy_Haley & Aldrich
Date: October 08, 2025

General Information:
5 samples were analyzed for Total Radium Calculation by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: TEC BASA Perimeter Shallow RAD
Pace Project No.: 60482370

Sample: MW-15-091125 **Lab ID: 60482370001** Collected: 09/11/25 12:30 Received: 09/12/25 16:55 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	**0.287 ± 0.460 (0.796) C:NA T:98%**	pCi/L	10/03/25 15:04	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**1.47 ± 0.469 (0.569) C:82% T:90%**	pCi/L	10/01/25 15:48	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.76 ± 0.657 (0.796)**	pCi/L	10/06/25 12:59	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: TEC BASA Perimeter Shallow RAD
Pace Project No.: 60482370

Sample: MW-16-091125 **Lab ID: 60482370002** Collected: 09/11/25 11:00 Received: 09/12/25 16:55 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	**0.487 ± 0.471 (0.731) C:NA T:99%**	pCi/L	10/03/25 15:04	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.843 ± 0.384 (0.626) C:85% T:89%**	pCi/L	10/01/25 15:49	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.33 ± 0.608 (0.731)**	pCi/L	10/06/25 12:59	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: TEC BASA Perimeter Shallow RAD
Pace Project No.: 60482370

Sample: MW-17-091125 **Lab ID: 60482370003** Collected: 09/11/25 14:50 Received: 09/12/25 16:55 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	**0.439 ± 0.551 (0.915) C:NA T:87%**	pCi/L	10/03/25 15:04	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**1.39 ± 0.498 (0.705) C:82% T:84%**	pCi/L	10/01/25 15:49	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.83 ± 0.743 (0.915)**	pCi/L	10/06/25 12:59	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: TEC BASA Perimeter Shallow RAD
Pace Project No.: 60482370

Sample: MW-19-091125 **Lab ID: 60482370004** Collected: 09/11/25 11:45 Received: 09/12/25 16:55 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	**0.142 ± 0.465 (0.860) C:NA T:98%**	pCi/L	10/03/25 15:04	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**1.57 ± 0.662 (1.12) C:82% T:75%**	pCi/L	10/01/25 15:49	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.71 ± 0.809 (1.12)**	pCi/L	10/06/25 12:59	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: TEC BASA Perimeter Shallow RAD
Pace Project No.: 60482370

Sample: MW-18-091125 **Lab ID: 60482370005** Collected: 09/11/25 10:30 Received: 09/12/25 16:55 Matrix: Water
PWS: Site ID: Sample Type:

Comments: • Upon receipt at the laboratory, 2.5 mls of nitric acid were added to sample 005 BP1N 2/2, to meet the sample preservation requirement of pH <2 for radiochemistry analysis, where the method requires preservation, in wastewater. The samples were not preserved pH < 2 within 15 minutes of collection (40CFR136). Client has been notified via SAF.

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.521 ± 0.430 (0.621) C:NA T:96%**	pCi/L	10/03/25 15:04	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**2.16 ± 0.683 (0.934) C:78% T:85%**	pCi/L	10/01/25 15:49	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**2.68 ± 0.807 (0.934)**	pCi/L	10/06/25 12:59	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: TEC BASA Perimeter Shallow RAD
Pace Project No.: 60482370

QC Batch: 771953
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: 60482370001, 60482370002, 60482370003, 60482370004, 60482370005

METHOD BLANK: 3763681 Matrix: Water
Associated Lab Samples: 60482370001, 60482370002, 60482370003, 60482370004, 60482370005

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.633 ± 0.374 (0.681) C:80% T:90%	pCi/L	10/01/25 15:49	

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.

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QUALITY CONTROL - RADIOCHEMISTRY

Project: TEC BASA Perimeter Shallow RAD
Pace Project No.: 60482370

QC Batch: 771952
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: 60482370001, 60482370002, 60482370003, 60482370004, 60482370005

METHOD BLANK: 3763680 Matrix: Water
Associated Lab Samples: 60482370001, 60482370002, 60482370003, 60482370004, 60482370005

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0782 ± 0.188 (0.363) C:NA T:100%	pCi/L	10/03/25 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.

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QUALIFIERS

Project: TEC BASA Perimeter Shallow RAD
Pace Project No.: 60482370

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.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: TEC BASA Perimeter Shallow RAD
Pace Project No.: 60482370

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60482370001	**MW-15-091125**	EPA 903.1	771952		
60482370002	**MW-16-091125**	EPA 903.1	771952		
60482370003	**MW-17-091125**	EPA 903.1	771952		
60482370004	**MW-19-091125**	EPA 903.1	771952		
60482370005	**MW-18-091125**	EPA 903.1	771952		
60482370001	**MW-15-091125**	EPA 904.0	771953		
60482370002	**MW-16-091125**	EPA 904.0	771953		
60482370003	**MW-17-091125**	EPA 904.0	771953		
60482370004	**MW-19-091125**	EPA 904.0	771953		
60482370005	**MW-18-091125**	EPA 904.0	771953		
60482370001	**MW-15-091125**	Total Radium Calculation	775278		
60482370002	**MW-16-091125**	Total Radium Calculation	775278		
60482370003	**MW-17-091125**	Total Radium Calculation	775278		
60482370004	**MW-19-091125**	Total Radium Calculation	775278		
60482370005	**MW-18-091125**	Total Radium Calculation	775278		

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WO# : 60482370

60482370

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

Client Name: Evergy

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** 23.0 **Corr. Factor** — **Corrected** 23.0

Date and initials of person examining contents: DF 9/13

Temperature should be above freezing to 6°C

Chain of Custody present:	☒Yes ☐No ☐N/A	Please Add Sample:
Chain of Custody relinquished:	☒Yes ☐No ☐N/A	MW-18-091125 9/10
Samples arrived within holding time:	☒Yes ☐No ☐N/A	@ 1030. Same tests.
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® 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

L0482370

Scan QR Code for instructions

Company Name:	Evergy Kansas Central, Inc.	Contact/Report To:	Jake Humphrey
Street Address:	818 S Kansas Avenue, Topeka, KS 66612	Phone #:	(913)634-0605
		E-Mail:	jake.humphrey@evergy.com
		Cc E-Mail:	skaney@haleyaldrich.com
Customer Project #:			
Project Name:	TEC BASA PERIMETER - SHALLOW RADCHEM	Invoice To:	Tecumseh Center
		Invoice E-Mail:	evergyap@onlinecapturecenter.com
Site Collection Info/Facility ID (as applicable):	Tecumseh Energy Center	Purchase Order # (if applicable):	WSTR-2000094802
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [X] CT [ ] ET

County / State origin of sample(s): Kansas

Data Deliverables:
[ ] Level II [ ] Level III [ ] Level IV
[ ] EQUIS
[ ] Other _____

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [ ] Yes [X] 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 [X] 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	Radium 226, Radium 228, Radium 226/228 Combined Calc., QC Sheets										Sample Comment
MW-15-091125	GW	Grab	-	-	9/11/2025	1230	2	-	-	X										
MW-16-091125	GW	Grab	-	-	9/11/2025	1100	2	-	-	X										
MW-17-091125	GW	Grab	-	-	9/11/2025	1450	2	-	-	X										
MW-19-091125	GW	Grab	-	-	9/11/2025	1145	2	-	-	X										

Specify Container Size **
1
Identify Container Preservative Type***
2
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: Alice Spiller
AcctNum / Client ID:
Table #:
Profile / Template: 16502
Prelog / Bottle Ord. ID: EZ 3295309

Preservation non-conformance identified for sample.

Additional Instructions from Pace®:

Collected By: (Printed Name) Jason R. Franks
Signature: Jason R. Franks

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)	On Ice:
				2.2	

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
Jason R. Franks / SCS	09/12/2025 / 16:00	pace	9/12 1655	
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 1

Page 18 of 23

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: Evergy

Profile/EZ # EZ3295309

Site: TEC BASA Perimeter - Shallow Radchem

Notes Please add sample MW-18-091125

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																						2										
4																						2										
5																						2										
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#: 60482370**

PM: AS **Due Date: 10/13/25**

CLIENT: Evergy_Haley

Internal Transfer Chain of Custody

☐ Rush Multiplier____X
☐ Samples Pre-Logged into eCOC

State Of Origin: KS
Cert. Needed: ☒ Yes ☐ No
Owner Received Date: 9/12/2025 **Results Requested By:** 10/13/2025

Workorder: 60482370 **Workorder Name:** TEC BASA Perimeter Shallow RAD

Report To	Subcontract To
Alice Spiller Pace Analytical Kansas 9608 Loiret Blvd. Lenexa, KS 66219 Phone (913)599-5665	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: QC Sheets	Radium 226	Radium 228, and combined										LAB USE ONLY
1	MW-15-091125	PS	9/11/2025 12:30	60482370001	Water	2						X	X	X										001
2	MW-16-091125	PS	9/11/2025 11:00	60482370002	Water	2						X	X	X										002
3	MW-17-091125	PS	9/11/2025 14:50	60482370003	Water	2						X	X	X										003
4	MW-19-091125	PS	9/11/2025 11:45	60482370004	Water	2						X	X	X										004
5	MW-18-091125	PS	9/11/2025 10:30	60482370005	Water	2						X	X	X										005

Transfers	Released By	Date/Time	Received By	Date/Time
1	DF PACE	9/12 1700		9/17/25 9:30
2				
3				

Comments

Location: 60-R01-S1A

Cooler Temperature on Receipt 3.4 / 4.8 °C (IS 9/18/25) **Custody Seal** Y or (N) **Received on Ice** (Y) or N (IS 9/18/25) **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# : 30811129

30811129

DC#_Title: ENV-FRM-GBUR-0088 v09_Sample Condition Upon Receipt

Greensburg

Effective Date: 06/24/2025

WO#: 30811129

PM: CMC Due Date: 10/08/25

CLIENT: PACE_GO_LEKS

Client Name: Pace - ICS Project

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other

Tracking Number: 4453 8936 8964 / 4453 8936 8942

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

Therm. Used: 25 Type of Ice: (Wet) Blue None

Cooler Temp: Observed Temp 3.5 °C Correction Factor: -0.1 °C Final Temp: 3.4 / 4.8 °C

Temp should be above freezing to 6°C 4.9

Initial / Date	
Examined By:	PS 9/18/25
Labeled By:	PS 9/18/25
Temped By:	PS 9/17/25

pH paper Lot#	D.P.D. Residual Chlorine Lot #
10043241	

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 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. added 2.5 ml HNO3 to Sample 005 - BPIN 2/2
All containers meet method preservation requirements:		✓		Initial when completed: PS Date/Time of Preservation: 9/18/25 1330
				Lot# of added Preservative: ~~30223270~~ 30223270 PS 9/18/25
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: 9/17/25 Survey Meter SN: 2501438O

Comments: * ~~Received intact COC 9/17/25 9:30. PS 9/18/25~~

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.

Quality Control Sample Performance Assessment

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test:	Ra-226
Analyst:	TMY
Date:	9/24/2025
Batch ID:	87156
Matrix:	WT

Method Blank Assessment	
MB Sample ID	3763680
MB concentration:	0.078
M/B 2 Sigma CSU:	0.188
MB MDC:	0.363
MB Numerical Performance Indicator:	0.82
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	N/A

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS87156	**LCSD87156**
Count Date:	10/3/2025	10/3/2025
Spike I.D.:	25-038	25-038
Spike Concentration (pCi/mL):	31.876	31.876
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.654	0.652
Target Conc. (pCi/L, g, F):	4.870	4.887
Uncertainty (Calculated):	0.229	0.230
Result (pCi/L, g, F):	5.617	5.301
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	1.122	1.061
Numerical Performance Indicator:	1.28	0.75
Percent Recovery:	115.34%	108.47%
Status vs Numerical Indicator:	Pass	Pass
Status vs Recovery:	N/A	N/A
Upper % Recovery Limits:	133%	133%
Lower % Recovery Limits:	73%	73%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS87156	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD87156	
Sample Result (pCi/L, g, F):	5.617	
Sample Result 2 Sigma CSU (pCi/L, g, F):	1.122	
Sample Duplicate Result (pCi/L, g, F):	5.301	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.061	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	0.402	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	6.14%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	N/A	
% RPD Limit:	32%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the RL.

Comments:

DO 10/3/25

TM 10.6.25

Quality Control Sample Performance Assessment

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test:	Ra-228
Analyst:	VAL
Date:	9/25/2025
Worklist:	87157
Matrix:	WT

Method Blank Assessment	
MB Sample ID	3763681
MB concentration:	0.633
M/B 2 Sigma CSU:	0.374
MB MDC:	0.681
MB Numerical Performance Indicator:	3.32
MB Status vs Numerical Indicator:	Fail*
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS87157	LCSD87157
Count Date:	10/1/2025	10/1/2025
Spike I.D.:	23-043	23-043
Decay Corrected Spike Concentration (pCi/mL):	31.113	31.113
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.818	0.817
Target Conc. (pCi/L, g, F):	3.804	3.809
Uncertainty (Calculated):	0.186	0.187
Result (pCi/L, g, F):	4.230	3.683
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.970	0.929
Numerical Performance Indicator:	0.85	-0.26
Percent Recovery:	111.20%	96.70%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS87157	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD87157	
Sample Result (pCi/L, g, F):	4.230	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.970	
Sample Duplicate Result (pCi/L, g, F):	3.683	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.929	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	0.798	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	13.95%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	36%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

*If the lowest activity sample in this batch is ~~greater than ten times the blank value, the blank is acceptable, otherwise this batch must be re-prepped.~~

MA activity < MDC < 1

pass

VAL

10/3/25

SLL 10/3/25

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

October 03, 2025

Jake Humphrey
Evergy, Inc.
818 S Kansas Avenue
Topeka, KS 66612

RE: Project: TEC BASA Perimeter Shallow
Pace Project No.: 60482476

Dear Jake Humphrey:

Enclosed are the analytical results for sample(s) received by the laboratory on September 16, 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,

Alice Spiller

Alice Spiller
alice.spiller@pacelabs.com
(913)599-5665
PM Lab Management

Enclosures

cc: Jordan Eichman, Haley & Aldrich, Inc.
Samantha Kaney, Haley & Aldrich
Melanie Satanek, Haley & Aldrich, Inc.
Adriana Sosa, Haley & Aldrich, Inc.
Nick Williams, Haley Aldrich

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Lenexa, KS 66219
(913)599-5665

CERTIFICATIONS

Project: TEC BASA Perimeter Shallow
Pace Project No.: 60482476

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

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SAMPLE SUMMARY

Project: TEC BASA Perimeter Shallow
Pace Project No.: 60482476

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60482476001	**MW-18-091525**	Water	09/15/25 11:05	09/16/25 14:36
60482476002	**TEC-BASA-PERIMETER-DUP-091525**	Water	09/15/25 11:05	09/16/25 14:36

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SAMPLE ANALYTE COUNT

Project: TEC BASA Perimeter Shallow
Pace Project No.: 60482476

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60482476001	**MW-18-091525**	EPA 200.7	ARMN	6	PASI-K
		EPA 200.7	ARMN	1	PASI-K
		EPA 6010	ARMN	1	PASI-K
		EPA 200.8	CJM	10	PASI-K
		EPA 200.8	CJM	5	PASI-K
		SM 2320B	EMB	3	PASI-K
		SM 2540C	CAR	1	PASI-K
		SM 3500-Fe B#4	IED	1	PASI-K
		SM 4500-H+B	EMB	1	PASI-K
		SM 4500-S-2 D	IED	1	PASI-K
		EPA 300.0	GTS	2	PASI-K
		EPA 300.0	PL	3	PASI-K
		EPA 365.4	AKK	1	PASI-K
		SM 5310C	EMB	1	PASI-K
		SM 5310C	EMB	1	PASI-K
60482476002	**TEC-BASA-PERIMETER-DUP-091525**	EPA 200.7	ARMN	6	PASI-K
		EPA 200.7	ARMN	1	PASI-K
		EPA 6010	ARMN	1	PASI-K
		EPA 200.8	CJM	10	PASI-K
		EPA 200.8	CJM	5	PASI-K
		SM 2320B	EMB	3	PASI-K
		SM 2540C	CAR	1	PASI-K
		SM 3500-Fe B#4	IED	1	PASI-K
		SM 4500-H+B	EMB	1	PASI-K
		SM 4500-S-2 D	IED	1	PASI-K
		EPA 300.0	GTS	2	PASI-K
		EPA 300.0	PL	3	PASI-K
		EPA 365.4	AKK	1	PASI-K
		SM 5310C	EMB	1	PASI-K
		SM 5310C	EMB	1	PASI-K

PASI-K = Pace Analytical Services - Kansas City

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PROJECT NARRATIVE

Project: TEC BASA Perimeter Shallow
Pace Project No.: 60482476

Method: **EPA 200.7**
Description: 200.7 Metals, Total
Client: Evergy_Haley & Aldrich
Date: October 03, 2025

General Information:
2 samples were analyzed for EPA 200.7 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 200.7 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 948432

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60482476002,60482480008

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 3759094)
  - Calcium
- MSD (Lab ID: 3759095)
  - Calcium

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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Lenexa, KS 66219
(913)599-5665

PROJECT NARRATIVE

Project: TEC BASA Perimeter Shallow
Pace Project No.: 60482476

Method: **EPA 200.7**
Description: 200.7 Metals, Dissolved
Client: Evergy_Haley & Aldrich
Date: October 03, 2025

General Information:
2 samples were analyzed for EPA 200.7 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 200.7 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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Lenexa, KS 66219
(913)599-5665

PROJECT NARRATIVE

Project: TEC BASA Perimeter Shallow
Pace Project No.: 60482476

Method: **EPA 6010**
Description: 6010 MET ICP
Client: Evergy_Haley & Aldrich
Date: October 03, 2025

General Information:
2 samples were analyzed for EPA 6010 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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Lenexa, KS 66219
(913)599-5665

PROJECT NARRATIVE

Project: TEC BASA Perimeter Shallow
Pace Project No.: 60482476

Method: **EPA 200.8**
Description: 200.8 MET ICPMS
Client: Evergy_Haley & Aldrich
Date: October 03, 2025

General Information:
2 samples were analyzed for EPA 200.8 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 200.8 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 948427

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60482476001,60482480007

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 3759083)
  - Aluminum
  - Iron
  - Manganese
- MSD (Lab ID: 3759084)
  - Aluminum
  - Iron
  - Manganese

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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Lenexa, KS 66219
(913)599-5665

PROJECT NARRATIVE

Project: TEC BASA Perimeter Shallow
Pace Project No.: 60482476

Method: **EPA 200.8**
Description: 200.8 MET ICPMS, Dissolved
Client: Evergy_Haley & Aldrich
Date: October 03, 2025

General Information:
2 samples were analyzed for EPA 200.8 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 200.8 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 948539

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60482476002

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 3759521)
  - Manganese, Dissolved
- MSD (Lab ID: 3759522)
  - Manganese, Dissolved

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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Lenexa, KS 66219
(913)599-5665

PROJECT NARRATIVE

Project: TEC BASA Perimeter Shallow
Pace Project No.: 60482476

Method: **SM 2320B**
Description: 2320B Alkalinity
Client: Evergy_Haley & Aldrich
Date: October 03, 2025

General Information:
2 samples were analyzed for SM 2320B by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA Perimeter Shallow
Pace Project No.: 60482476

Method: **SM 2540C**
Description: 2540C Total Dissolved Solids
Client: Evergy_Haley & Aldrich
Date: October 03, 2025

General Information:
2 samples were analyzed for SM 2540C by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA Perimeter Shallow
Pace Project No.: 60482476

Method: **SM 3500-Fe B#4**
Description: Iron, Ferrous
Client: Evergy_Haley & Aldrich
Date: October 03, 2025

General Information:
2 samples were analyzed for SM 3500-Fe B#4 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

H6: Analysis initiated outside of the 15 minute EPA required holding time.
- MW-18-091525 (Lab ID: 60482476001)
- TEC-BASA-PERIMETER-DUP-091525 (Lab ID: 60482476002)

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA Perimeter Shallow
Pace Project No.: 60482476

Method: **SM 4500-H+B**
Description: 4500H+ pH, Electrometric
Client: Evergy_Haley & Aldrich
Date: October 03, 2025

General Information:
2 samples were analyzed for SM 4500-H+B by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

H3: Sample was received or analysis requested beyond the recognized method holding time.
- MW-18-091525 (Lab ID: 60482476001)
- TEC-BASA-PERIMETER-DUP-091525 (Lab ID: 60482476002)

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA Perimeter Shallow
Pace Project No.: 60482476

Method: **SM 4500-S-2 D**
Description: 4500S2D Sulfide, Total
Client: Evergy_Haley & Aldrich
Date: October 03, 2025

General Information:
2 samples were analyzed for SM 4500-S-2 D by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA Perimeter Shallow
Pace Project No.: 60482476

Method: **EPA 300.0**
Description: 300.0 IC Anions
Client: Evergy_Haley & Aldrich
Date: October 03, 2025

General Information:
2 samples were analyzed for EPA 300.0 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 948331

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60481584001,60482480001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 3758691)
  - Nitrite as N

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA Perimeter Shallow
Pace Project No.: 60482476

Method: **EPA 300.0**
Description: 300.0 IC Anions 28 Days
Client: Evergy_Haley & Aldrich
Date: October 03, 2025

General Information:
2 samples were analyzed for EPA 300.0 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 949729

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60482367002,60482480002

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 3764044)
  - Chloride
  - Fluoride
  - Sulfate

R1: RPD value was outside control limits.

- MSD (Lab ID: 3764045)
  - Chloride
  - Fluoride
  - Sulfate

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA Perimeter Shallow
Pace Project No.: 60482476

Method: **EPA 365.4**
Description: 365.4 Total Phosphorus
Client: Evergy_Haley & Aldrich
Date: October 03, 2025

General Information:
2 samples were analyzed for EPA 365.4 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 365.4 with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

QC Batch: 949523

D6: The precision between the sample and sample duplicate exceeded laboratory control limits.

- DUP (Lab ID: 3763168)
  - Phosphorus

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA Perimeter Shallow
Pace Project No.: 60482476

Method: **SM 5310C**
Description: 5310C TOC
Client: Evergy_Haley & Aldrich
Date: October 03, 2025

General Information:
2 samples were analyzed for SM 5310C by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA Perimeter Shallow
Pace Project No.: 60482476

Method: **SM 5310C**
Description: 5310C Dissolved Organic Carbon
Client: Evergy_Haley & Aldrich
Date: October 03, 2025

General Information:
2 samples were analyzed for SM 5310C by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: TEC BASA Perimeter Shallow
Pace Project No.: 60482476

Sample: MW-18-091525 **Lab ID: 60482476001** Collected: 09/15/25 11:05 Received: 09/16/25 14:36 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								
Boron, Total Recoverable	**0.52**	mg/L	0.10	0.033	1	09/17/25 13:02	10/01/25 14:24	7440-42-8	
Calcium, Total Recoverable	**254**	mg/L	0.20	0.045	1	09/17/25 13:02	10/01/25 14:24	7440-70-2	
Magnesium, Total Recoverable	**29.0**	mg/L	0.050	0.021	1	09/17/25 13:02	10/01/25 14:24	7439-95-4	
Potassium, Total Recoverable	**21.0**	mg/L	0.50	0.045	1	09/17/25 13:02	10/01/25 14:24	7440-09-7	
Sodium, Total Recoverable	**102**	mg/L	0.50	0.032	1	09/17/25 13:02	10/01/25 14:24	7440-23-5	
Total Hardness by 2340B, Total Recoverable	**753**	mg/L	0.50	0.20	1	09/17/25 13:02	10/01/25 14:24		
200.7 Metals, Dissolved	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City								
Magnesium, Dissolved	**25.4**	mg/L	0.050	0.021	1	09/18/25 09:00	10/02/25 11:19	7439-95-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Kansas City								
Lithium, Total Recoverable	**0.053**	mg/L	0.010	0.0018	1	09/18/25 14:18	10/02/25 15:53	7439-93-2	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Aluminum, Total Recoverable	**12.7**	mg/L	0.050	0.0082	1	09/17/25 13:02	09/22/25 10:52	7429-90-5	M1
Arsenic, Total Recoverable	**0.013**	mg/L	0.0010	0.00013	1	09/17/25 13:02	09/22/25 10:52	7440-38-2	
Barium, Total Recoverable	**0.21**	mg/L	0.0010	0.00021	1	09/17/25 13:02	09/22/25 10:52	7440-39-3	
Chromium, Total Recoverable	**0.022**	mg/L	0.0010	0.00034	1	09/17/25 13:02	09/22/25 10:52	7440-47-3	
Cobalt, Total Recoverable	**0.016**	mg/L	0.0010	0.00010	1	09/17/25 13:02	09/22/25 10:52	7440-48-4	
Iron, Total Recoverable	**18.5**	mg/L	0.050	0.0044	1	09/17/25 13:02	09/22/25 10:52	7439-89-6	M1
Lead, Total Recoverable	**0.014**	mg/L	0.0010	0.00023	1	09/17/25 13:02	09/22/25 10:52	7439-92-1	
Manganese, Total Recoverable	**2.8**	mg/L	0.0010	0.00052	1	09/17/25 13:02	09/22/25 10:52	7439-96-5	M1
Molybdenum, Total Recoverable	**0.0076**	mg/L	0.0010	0.00016	1	09/17/25 13:02	09/22/25 10:52	7439-98-7	
Selenium, Total Recoverable	**0.0038**	mg/L	0.0010	0.00019	1	09/17/25 13:02	09/22/25 10:52	7782-49-2	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Aluminum, Dissolved	**<0.0082**	mg/L	0.050	0.0082	1	09/18/25 09:00	09/22/25 15:38	7429-90-5	
Arsenic, Dissolved	**0.0013**	mg/L	0.0010	0.00013	1	09/18/25 09:00	09/22/25 15:38	7440-38-2	
Cobalt, Dissolved	**0.0013**	mg/L	0.0010	0.00010	1	09/18/25 09:00	09/22/25 15:38	7440-48-4	
Iron, Dissolved	**0.11**	mg/L	0.050	0.0044	1	09/18/25 09:00	09/22/25 15:38	7439-89-6	
Manganese, Dissolved	**2.3**	mg/L	0.0010	0.00052	1	09/18/25 09:00	09/22/25 15:38	7439-96-5	
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Kansas City								
Alkalinity,Bicarbonate (CaCO3)	**499**	mg/L	20.0	10.5	1		09/19/25 15:04		
Alkalinity,Carbonate (CaCO3)	**<10.5**	mg/L	20.0	10.5	1		09/19/25 15:04		
Alkalinity, Total as CaCO3	**499**	mg/L	20.0	10.5	1		09/19/25 15:04		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TEC BASA Perimeter Shallow
Pace Project No.: 60482476

Sample: MW-18-091525 **Lab ID: 60482476001** Collected: 09/15/25 11:05 Received: 09/16/25 14:36 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	**1220**	mg/L	20.0	20.0	1		09/18/25 15:51		
Iron, Ferrous	Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City								
Iron, Ferrous	**4.5**	mg/L	0.20	0.041	1		09/16/25 16:49	15438-31-0	H6
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Kansas City								
pH at 25 Degrees C	**6.9**	Std. Units	0.10	0.10	1		09/17/25 16:44		H3
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D Pace Analytical Services - Kansas City								
Sulfide, Total	**0.26**	mg/L	0.050	0.016	1		09/17/25 00:00	18496-25-8	
300.0 IC Anions	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City								
Nitrate as N	**<0.066**	mg/L	0.10	0.066	1		09/16/25 23:30	14797-55-8	
Nitrite as N	**<0.070**	mg/L	0.10	0.070	1		09/16/25 23:30	14797-65-0	CL
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City								
Chloride	**89.3**	mg/L	20.0	10.5	20		09/27/25 18:08	16887-00-6	
Fluoride	**<0.12**	mg/L	0.20	0.12	1		09/27/25 17:56	16984-48-8	
Sulfate	**327**	mg/L	20.0	11.0	20		09/27/25 18:08	14808-79-8	
365.4 Total Phosphorus	Analytical Method: EPA 365.4 Preparation Method: EPA 365.4 Pace Analytical Services - Kansas City								
Phosphorus	**0.87**	mg/L	0.10	0.071	1	09/26/25 11:31	09/26/25 19:25	7723-14-0	
5310C TOC	Analytical Method: SM 5310C Pace Analytical Services - Kansas City								
Total Organic Carbon	**1.1**	mg/L	1.0	0.54	1		09/24/25 22:39	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C Pace Analytical Services - Kansas City								
Dissolved Organic Carbon	**1.1**	mg/L	1.0	0.54	1		10/01/25 16:34		

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ANALYTICAL RESULTS

Project: TEC BASA Perimeter Shallow
Pace Project No.: 60482476

Sample: TEC-BASA-PERIMETER-DUP-091525 **Lab ID: 60482476002** Collected: 09/15/25 11:05 Received: 09/16/25 14:36 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								
Boron, Total Recoverable	**0.52**	mg/L	0.10	0.033	1	09/17/25 13:02	10/01/25 14:19	7440-42-8	
Calcium, Total Recoverable	**248**	mg/L	0.20	0.045	1	09/17/25 13:02	10/01/25 14:19	7440-70-2	M1,P6
Magnesium, Total Recoverable	**28.7**	mg/L	0.050	0.021	1	09/17/25 13:02	10/01/25 14:19	7439-95-4	
Potassium, Total Recoverable	**20.6**	mg/L	0.50	0.045	1	09/17/25 13:02	10/01/25 14:19	7440-09-7	
Sodium, Total Recoverable	**103**	mg/L	0.50	0.032	1	09/17/25 13:02	10/01/25 14:19	7440-23-5	
Total Hardness by 2340B, Total Recoverable	**738**	mg/L	0.50	0.20	1	09/17/25 13:02	10/01/25 14:19		
200.7 Metals, Dissolved	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City								
Magnesium, Dissolved	**25.6**	mg/L	0.050	0.021	1	09/18/25 09:00	10/02/25 11:24	7439-95-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Kansas City								
Lithium, Total Recoverable	**0.057**	mg/L	0.010	0.0018	1	09/18/25 14:18	10/02/25 15:59	7439-93-2	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Aluminum, Total Recoverable	**11.4**	mg/L	0.050	0.0082	1	09/17/25 13:02	09/22/25 11:06	7429-90-5	
Arsenic, Total Recoverable	**0.012**	mg/L	0.0010	0.00013	1	09/17/25 13:02	09/22/25 11:06	7440-38-2	
Barium, Total Recoverable	**0.20**	mg/L	0.0010	0.00021	1	09/17/25 13:02	09/22/25 11:06	7440-39-3	
Chromium, Total Recoverable	**0.020**	mg/L	0.0010	0.00034	1	09/17/25 13:02	09/22/25 11:06	7440-47-3	
Cobalt, Total Recoverable	**0.015**	mg/L	0.0010	0.00010	1	09/17/25 13:02	09/22/25 11:06	7440-48-4	
Iron, Total Recoverable	**17.3**	mg/L	0.050	0.0044	1	09/17/25 13:02	09/22/25 11:06	7439-89-6	
Lead, Total Recoverable	**0.013**	mg/L	0.0010	0.00023	1	09/17/25 13:02	09/22/25 11:06	7439-92-1	
Manganese, Total Recoverable	**2.6**	mg/L	0.0010	0.00052	1	09/17/25 13:02	09/22/25 11:06	7439-96-5	
Molybdenum, Total Recoverable	**0.0075**	mg/L	0.0010	0.00016	1	09/17/25 13:02	09/22/25 11:06	7439-98-7	
Selenium, Total Recoverable	**0.0033**	mg/L	0.0010	0.00019	1	09/17/25 13:02	09/22/25 11:06	7782-49-2	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Aluminum, Dissolved	**<0.0082**	mg/L	0.050	0.0082	1	09/18/25 09:00	09/22/25 15:29	7429-90-5	
Arsenic, Dissolved	**0.0013**	mg/L	0.0010	0.00013	1	09/18/25 09:00	09/22/25 15:29	7440-38-2	
Cobalt, Dissolved	**0.0012**	mg/L	0.0010	0.00010	1	09/18/25 09:00	09/22/25 15:29	7440-48-4	
Iron, Dissolved	**0.12**	mg/L	0.050	0.0044	1	09/18/25 09:00	09/22/25 15:29	7439-89-6	
Manganese, Dissolved	**2.2**	mg/L	0.0010	0.00052	1	09/18/25 09:00	09/22/25 15:29	7439-96-5	M1
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Kansas City								
Alkalinity,Bicarbonate (CaCO3)	**493**	mg/L	20.0	10.5	1		09/19/25 15:23		
Alkalinity,Carbonate (CaCO3)	**<10.5**	mg/L	20.0	10.5	1		09/19/25 15:23		
Alkalinity, Total as CaCO3	**493**	mg/L	20.0	10.5	1		09/19/25 15:23		

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ANALYTICAL RESULTS

Project: TEC BASA Perimeter Shallow
Pace Project No.: 60482476

Sample: TEC-BASA-PERIMETER-DUP-091525 **Lab ID: 60482476002** Collected: 09/15/25 11:05 Received: 09/16/25 14:36 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	**1220**	mg/L	20.0	20.0	1		09/18/25 15:51		
Iron, Ferrous	Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City								
Iron, Ferrous	**4.4**	mg/L	0.20	0.041	1		09/16/25 16:49	15438-31-0	H6
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Kansas City								
pH at 25 Degrees C	**7.0**	Std. Units	0.10	0.10	1		09/17/25 16:44		H3
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D Pace Analytical Services - Kansas City								
Sulfide, Total	**0.27**	mg/L	0.050	0.016	1		09/17/25 00:00	18496-25-8	
300.0 IC Anions	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City								
Nitrate as N	**<0.066**	mg/L	0.10	0.066	1		09/17/25 00:22	14797-55-8	
Nitrite as N	**<0.070**	mg/L	0.10	0.070	1		09/17/25 00:22	14797-65-0	CL
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City								
Chloride	**90.7**	mg/L	20.0	10.5	20		09/27/25 18:34	16887-00-6	
Fluoride	**<0.12**	mg/L	0.20	0.12	1		09/27/25 18:21	16984-48-8	
Sulfate	**327**	mg/L	20.0	11.0	20		09/27/25 18:34	14808-79-8	
365.4 Total Phosphorus	Analytical Method: EPA 365.4 Preparation Method: EPA 365.4 Pace Analytical Services - Kansas City								
Phosphorus	**0.76**	mg/L	0.10	0.071	1	09/26/25 11:31	09/26/25 19:30	7723-14-0	
5310C TOC	Analytical Method: SM 5310C Pace Analytical Services - Kansas City								
Total Organic Carbon	**0.89J**	mg/L	1.0	0.54	1		09/24/25 22:53	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C Pace Analytical Services - Kansas City								
Dissolved Organic Carbon	**2.0**	mg/L	1.0	0.54	1		10/01/25 17:02		

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QUALITY CONTROL DATA

Project: TEC BASA Perimeter Shallow
Pace Project No.: 60482476

QC Batch: 948432
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: 60482476001, 60482476002

METHOD BLANK: 3759092 Matrix: Water
Associated Lab Samples: 60482476001, 60482476002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Boron	mg/L	<0.033	0.10	0.033	10/01/25 14:15	
Calcium	mg/L	<0.045	0.20	0.045	10/01/25 14:15	
Hardness, Total(SM 2340B)	mg/L	<0.20	0.50	0.20	10/01/25 14:15	
Magnesium	mg/L	<0.021	0.050	0.021	10/01/25 14:15	
Potassium	mg/L	0.053J	0.50	0.045	10/01/25 14:15	
Sodium	mg/L	<0.032	0.50	0.032	10/01/25 14:15	

LABORATORY CONTROL SAMPLE: 3759093

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	mg/L	1	0.95	95	85-115	
Calcium	mg/L	10	10.1	101	85-115	
Hardness, Total(SM 2340B)	mg/L	66.2	66.2	100	85-115	
Magnesium	mg/L	10	10	100	85-115	
Potassium	mg/L	10	9.8	98	85-115	
Sodium	mg/L	10	9.7	97	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3759094 3759095

Parameter	Units	60482476002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Boron	mg/L	0.52	1	1	1.5	1.5	99	96	70-130	2	20	
Calcium	mg/L	248	10	10	264	254	155	60	70-130	4	20	M1
Hardness, Total(SM 2340B)	mg/L	738	66.2	66.2	821	792	126	82	70-130	4	20	
Magnesium	mg/L	28.7	10	10	39.5	38.2	109	96	70-130	3	20	
Potassium	mg/L	20.6	10	10	33.1	32.6	124	120	70-130	1	20	
Sodium	mg/L	103	10	10	116	112	125	92	70-130	3	20	

MATRIX SPIKE SAMPLE: 3759096

Parameter	Units	60482480008 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Boron	mg/L	0.55	1	1.5	99	70-130	
Calcium	mg/L	141	10	152	115	70-130	
Hardness, Total(SM 2340B)	mg/L	454	66.2	526	109	70-130	
Magnesium	mg/L	24.9	10	35.4	105	70-130	
Potassium	mg/L	3.5	10	13.8	103	70-130	

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QUALITY CONTROL DATA

Project: TEC BASA Perimeter Shallow
Pace Project No.: 60482476

MATRIX SPIKE SAMPLE: 3759096

Parameter	Units	60482480008 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sodium	mg/L	178	10	190	126	70-130	

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QUALITY CONTROL DATA

Project: TEC BASA Perimeter Shallow
Pace Project No.: 60482476

QC Batch: 948538
QC Batch Method: EPA 200.7
Analysis Method: EPA 200.7
Analysis Description: 200.7 Metals, Dissolved
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60482476001, 60482476002

METHOD BLANK: 3759514 Matrix: Water
Associated Lab Samples: 60482476001, 60482476002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Magnesium, Dissolved	mg/L	<0.021	0.050	0.021	10/02/25 11:15	

LABORATORY CONTROL SAMPLE: 3759515

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Magnesium, Dissolved	mg/L	10	9.9	99	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3759516 3759517

Parameter	Units	60482476001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Magnesium, Dissolved	mg/L	25.4	10	10	34.9	34.4	96	91	70-130	1	20	

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QUALITY CONTROL DATA

Project: TEC BASA Perimeter Shallow
Pace Project No.: 60482476

QC Batch: 948427
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: 60482476001, 60482476002

METHOD BLANK: 3759081 Matrix: Water
Associated Lab Samples: 60482476001, 60482476002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Aluminum	mg/L	<0.0082	0.050	0.0082	09/22/25 10:46	
Arsenic	mg/L	<0.00013	0.0010	0.00013	09/22/25 10:46	
Barium	mg/L	<0.00021	0.0010	0.00021	09/22/25 10:46	
Chromium	mg/L	<0.00034	0.0010	0.00034	09/22/25 10:46	
Cobalt	mg/L	<0.00010	0.0010	0.00010	09/22/25 10:46	
Iron	mg/L	<0.0044	0.050	0.0044	09/22/25 10:46	
Lead	mg/L	<0.00023	0.0010	0.00023	09/22/25 10:46	
Manganese	mg/L	<0.00052	0.0010	0.00052	09/22/25 10:46	
Molybdenum	mg/L	<0.00016	0.0010	0.00016	09/22/25 10:46	
Selenium	mg/L	<0.00019	0.0010	0.00019	09/22/25 10:46	

LABORATORY CONTROL SAMPLE: 3759082

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	mg/L	1	1.0	104	85-115	
Arsenic	mg/L	0.04	0.040	101	85-115	
Barium	mg/L	0.04	0.041	102	85-115	
Chromium	mg/L	0.04	0.041	102	85-115	
Cobalt	mg/L	0.04	0.041	104	85-115	
Iron	mg/L	1	1.0	105	85-115	
Lead	mg/L	0.04	0.041	102	85-115	
Manganese	mg/L	0.04	0.041	102	85-115	
Molybdenum	mg/L	0.04	0.041	102	85-115	
Selenium	mg/L	0.04	0.041	101	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3759083 3759084

Parameter	Units	60482476001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum	mg/L	12.7	1	1	14.5	14.1	184	146	70-130	3	20	M1
Arsenic	mg/L	0.013	0.04	0.04	0.052	0.050	98	92	70-130	5	20	
Barium	mg/L	0.21	0.04	0.04	0.25	0.24	101	95	70-130	1	20	
Chromium	mg/L	0.022	0.04	0.04	0.066	0.064	110	106	70-130	3	20	
Cobalt	mg/L	0.016	0.04	0.04	0.054	0.053	94	91	70-130	2	20	
Iron	mg/L	18.5	1	1	19.2	19.2	68	65	70-130	0	20	M1
Lead	mg/L	0.014	0.04	0.04	0.054	0.052	99	94	70-130	4	20	
Manganese	mg/L	2.8	0.04	0.04	2.8	2.8	-8	164	70-130	2	20	M1

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QUALITY CONTROL DATA

Project: TEC BASA Perimeter Shallow
Pace Project No.: 60482476

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3759083 3759084

Parameter	Units	60482476001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Molybdenum	mg/L	0.0076	0.04	0.04	0.051	0.049	108	103	70-130	4	20	
Selenium	mg/L	0.0038	0.04	0.04	0.041	0.039	94	88	70-130	5	20	

MATRIX SPIKE SAMPLE: 3759097

Parameter	Units	60482480007 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum	mg/L	0.66	1	1.9	121	70-130	
Arsenic	mg/L	0.0018	0.04	0.043	102	70-130	
Barium	mg/L	0.030	0.04	0.072	104	70-130	
Chromium	mg/L	0.0016	0.04	0.039	93	70-130	
Cobalt	mg/L	0.0010	0.04	0.043	106	70-130	
Iron	mg/L	1.1	1	2.2	109	70-130	
Lead	mg/L	<0.0010	0.04	0.039	95	70-130	
Manganese	mg/L	0.19	0.04	0.23	100	70-130	
Molybdenum	mg/L	0.023	0.04	0.068	113	70-130	
Selenium	mg/L	0.0020	0.04	0.040	95	70-130	

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QUALITY CONTROL DATA

Project: TEC BASA Perimeter Shallow
Pace Project No.: 60482476

QC Batch: 948539
QC Batch Method: EPA 200.8
Analysis Method: EPA 200.8
Analysis Description: 200.8 MET Dissolved
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60482476001, 60482476002

METHOD BLANK: 3759519 Matrix: Water
Associated Lab Samples: 60482476001, 60482476002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Aluminum, Dissolved	mg/L	<0.0082	0.050	0.0082	09/22/25 15:22	
Arsenic, Dissolved	mg/L	<0.00013	0.0010	0.00013	09/22/25 15:22	
Cobalt, Dissolved	mg/L	<0.00010	0.0010	0.00010	09/22/25 15:22	
Iron, Dissolved	mg/L	0.0057J	0.050	0.0044	09/22/25 15:22	
Manganese, Dissolved	mg/L	<0.00052	0.0010	0.00052	09/22/25 15:22	

LABORATORY CONTROL SAMPLE: 3759520

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	mg/L	1	1.0	104	85-115	
Arsenic, Dissolved	mg/L	0.04	0.043	106	85-115	
Cobalt, Dissolved	mg/L	0.04	0.045	114	85-115	
Iron, Dissolved	mg/L	1	1.1	111	85-115	
Manganese, Dissolved	mg/L	0.04	0.044	109	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3759521 3759522

Parameter	Units	60482476002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum, Dissolved	mg/L	<0.0082	1	1	1.2	1.2	120	121	70-130	1	20	
Arsenic, Dissolved	mg/L	0.0013	0.04	0.04	0.045	0.046	109	111	70-130	2	20	
Cobalt, Dissolved	mg/L	0.0012	0.04	0.04	0.048	0.048	116	118	70-130	2	20	
Iron, Dissolved	mg/L	0.12	1	1	1.3	1.3	121	123	70-130	1	20	
Manganese, Dissolved	mg/L	2.2	0.04	0.04	2.3	2.4	277	310	70-130	1	20	M1

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QUALITY CONTROL DATA

Project: TEC BASA Perimeter Shallow
Pace Project No.: 60482476

QC Batch: 948541
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60482476001, 60482476002

METHOD BLANK: 3759527 Matrix: Water
Associated Lab Samples: 60482476001, 60482476002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Lithium	mg/L	0.0029J	0.010	0.0018	10/02/25 15:50	

LABORATORY CONTROL SAMPLE: 3759528

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lithium	mg/L	1	1.0	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3759529 3759530

Parameter	Units	60482476001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lithium	mg/L	0.053	1	1	1.1	1.1	102	102	75-125	0	20	

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QUALITY CONTROL DATA

Project: TEC BASA Perimeter Shallow
Pace Project No.: 60482476

QC Batch: 948749
QC Batch Method: SM 2320B
Analysis Method: SM 2320B
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60482476001, 60482476002

METHOD BLANK: 3760281 Matrix: Water
Associated Lab Samples: 60482476001, 60482476002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<10.5	20.0	10.5	09/19/25 12:44	
Alkalinity,Bicarbonate (CaCO3)	mg/L	<10.5	20.0	10.5	09/19/25 12:44	
Alkalinity,Carbonate (CaCO3)	mg/L	<10.5	20.0	10.5	09/19/25 12:44	

LABORATORY CONTROL SAMPLE: 3760282

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	500	481	96	90-110	

SAMPLE DUPLICATE: 3760283

Parameter	Units	60482434001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	387	387	0	10	
Alkalinity,Bicarbonate (CaCO3)	mg/L	387	387	0	10	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	<10.5		10	

SAMPLE DUPLICATE: 3760284

Parameter	Units	60482640002 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	251	245	2	10	
Alkalinity,Bicarbonate (CaCO3)	mg/L	251	245	2	10	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	<10.5		10	

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QUALITY CONTROL DATA

Project: TEC BASA Perimeter Shallow
Pace Project No.: 60482476

QC Batch: 948546
QC Batch Method: SM 2540C
Analysis Method: SM 2540C
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60482476001, 60482476002

METHOD BLANK: 3759546 Matrix: Water
Associated Lab Samples: 60482476001, 60482476002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<5.0	5.0	5.0	09/18/25 15:50	

LABORATORY CONTROL SAMPLE: 3759547

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	1000	1020	102	80-120	

SAMPLE DUPLICATE: 3759548

Parameter	Units	60482368001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1010	1020	1	10	

SAMPLE DUPLICATE: 3759549

Parameter	Units	60482405001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	3250	3290	1	10	

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QUALITY CONTROL DATA

Project: TEC BASA Perimeter Shallow
Pace Project No.: 60482476

QC Batch: 948322
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: 60482476001, 60482476002

METHOD BLANK: 3758648 Matrix: Water
Associated Lab Samples: 60482476001, 60482476002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Iron, Ferrous	mg/L	<0.041	0.20	0.041	09/16/25 16:49	H6

LABORATORY CONTROL SAMPLE: 3758649

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Ferrous	mg/L	2	2.0	100	90-110	H6

SAMPLE DUPLICATE: 3758650

Parameter	Units	60482476001 Result	Dup Result	RPD	Max RPD	Qualifiers
Iron, Ferrous	mg/L	4.5	4.6	1	20	H6

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REPORT OF LABORATORY ANALYSIS

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Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: TEC BASA Perimeter Shallow
Pace Project No.: 60482476

QC Batch: 948419
QC Batch Method: SM 4500-H+B
Analysis Method: SM 4500-H+B
Analysis Description: 4500H+B pH
Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60482476001, 60482476002

SAMPLE DUPLICATE: 3759071

Parameter	Units	60482447002 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.6	7.6	1	5	H3

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QUALITY CONTROL DATA

Project: TEC BASA Perimeter Shallow
Pace Project No.: 60482476

QC Batch: 948478
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: 60482476001, 60482476002

METHOD BLANK: 3759373 Matrix: Water
Associated Lab Samples: 60482476001, 60482476002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide, Total	mg/L	<0.016	0.050	0.016	09/17/25 00:00	

LABORATORY CONTROL SAMPLE: 3759374

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: 3759376 3759377

Parameter	Units	60482434001 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	ND	0.5	0.5	0.53	0.53	105	106	75-125	0	20	

SAMPLE DUPLICATE: 3759375

Parameter	Units	60482434001 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	ND	<0.016		20	

SAMPLE DUPLICATE: 3759378

Parameter	Units	60482434002 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	ND	<0.016		20	

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QUALITY CONTROL DATA

Project: TEC BASA Perimeter Shallow
Pace Project No.: 60482476

QC Batch: 948331
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: 60482476001, 60482476002

METHOD BLANK: 3758687 Matrix: Water
Associated Lab Samples: 60482476001, 60482476002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrate as N	mg/L	<0.066	0.10	0.066	09/16/25 20:01	
Nitrite as N	mg/L	<0.070	0.10	0.070	09/16/25 20:01	

LABORATORY CONTROL SAMPLE: 3758688

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrate as N	mg/L	2	1.9	96	90-110	
Nitrite as N	mg/L	2	2.0	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3758689 3758690

Parameter	Units	60481584001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrate as N	mg/L	0.41	2	2	2.4	2.5	100	103	80-120	2	15	H3
Nitrite as N	mg/L	ND	2	2	2.1	2.2	101	104	80-120	4	15	CL,H3

MATRIX SPIKE SAMPLE: 3758691

Parameter	Units	60482480001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrate as N	mg/L	0.27	2	2.2	98	80-120	
Nitrite as N	mg/L	<0.10	2	1.4	69	80-120	CL,M1

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QUALITY CONTROL DATA

Project: TEC BASA Perimeter Shallow
Pace Project No.: 60482476

QC Batch: 949729
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: 60482476001, 60482476002

METHOD BLANK: 3764042 Matrix: Water
Associated Lab Samples: 60482476001, 60482476002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	<0.53	1.0	0.53	09/27/25 15:01	
Fluoride	mg/L	<0.12	0.20	0.12	09/27/25 15:01	
Sulfate	mg/L	<0.55	1.0	0.55	09/27/25 15:01	

LABORATORY CONTROL SAMPLE: 3764043

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.6	92	90-110	
Fluoride	mg/L	2.5	2.6	103	90-110	
Sulfate	mg/L	5	4.9	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3764044 3764045

Parameter	Units	60482367002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	7260	5000	5000	9940	11600	53	87	80-120	16	15	M1,R1
Fluoride	mg/L	<124	2500	2500	1790	2550	72	102	80-120	35	15	M1,R1
Sulfate	mg/L	1220	5000	5000	4410	6030	64	96	80-120	31	15	M1,R1

MATRIX SPIKE SAMPLE: 3764046

Parameter	Units	60482480002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	197	100	293	95	80-120	
Fluoride	mg/L	<0.20	2.5	2.5	98	80-120	
Sulfate	mg/L	614	500	1150	108	80-120	

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QUALITY CONTROL DATA

Project: TEC BASA Perimeter Shallow
Pace Project No.: 60482476

QC Batch: 949523
QC Batch Method: EPA 365.4
Analysis Method: EPA 365.4
Analysis Description: 365.4 Phosphorus
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60482476001, 60482476002

METHOD BLANK: 3763165 Matrix: Water
Associated Lab Samples: 60482476001, 60482476002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Phosphorus	mg/L	<0.071	0.10	0.071	09/26/25 19:20	

LABORATORY CONTROL SAMPLE: 3763166

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphorus	mg/L	5	4.9	98	80-120	

MATRIX SPIKE SAMPLE: 3763167

Parameter	Units	60482476001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phosphorus	mg/L	0.87	5	5.8	98	80-120	

MATRIX SPIKE SAMPLE: 3763169

Parameter	Units	60482503001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phosphorus	mg/L	1.7	5	6.7	102	80-120	

SAMPLE DUPLICATE: 3763168

Parameter	Units	60482481001 Result	Dup Result	RPD	Max RPD	Qualifiers
Phosphorus	mg/L	0.41	0.35	15	10	D6

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QUALITY CONTROL DATA

Project: TEC BASA Perimeter Shallow
Pace Project No.: 60482476

QC Batch: 949388
QC Batch Method: SM 5310C
Analysis Method: SM 5310C
Analysis Description: 5310C Total Organic Carbon
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60482476001, 60482476002

METHOD BLANK: 3762572 Matrix: Water
Associated Lab Samples: 60482476001, 60482476002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Organic Carbon	mg/L	<0.54	1.0	0.54	09/24/25 20:18	

LABORATORY CONTROL SAMPLE: 3762573

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	5	5.0	100	80-120	

MATRIX SPIKE SAMPLE: 3762574

Parameter	Units	60482476001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	1.1	5	5.1	80	80-120	

SAMPLE DUPLICATE: 3762575

Parameter	Units	60482476001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Organic Carbon	mg/L	1.1	0.83J		25	

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QUALITY CONTROL DATA

Project: TEC BASA Perimeter Shallow
Pace Project No.: 60482476

QC Batch: 950064
QC Batch Method: SM 5310C
Analysis Method: SM 5310C
Analysis Description: 5310C Dissolved Organic Carbon
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60482476001, 60482476002

METHOD BLANK: 3765283 Matrix: Water
Associated Lab Samples: 60482476001, 60482476002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Dissolved Organic Carbon	mg/L	<0.54	1.0	0.54	10/01/25 16:06	

LABORATORY CONTROL SAMPLE: 3765284

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	5	4.8	96	80-120	

MATRIX SPIKE SAMPLE: 3765285

Parameter	Units	60482476001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	1.1	5	5.3	83	80-120	

SAMPLE DUPLICATE: 3765286

Parameter	Units	60482476001 Result	Dup Result	RPD	Max RPD	Qualifiers
Dissolved Organic Carbon	mg/L	1.1	1.1	2	25	

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QUALIFIERS

Project: TEC BASA Perimeter Shallow
Pace Project No.: 60482476

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

CL	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.
D6	The precision between the sample and sample duplicate exceeded laboratory control limits.
H3	Sample was received or analysis requested beyond the recognized 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.
P6	Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.
R1	RPD value was outside control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: TEC BASA Perimeter Shallow
Pace Project No.: 60482476

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60482476001	**MW-18-091525**	EPA 200.7	948432	EPA 200.7	948468
60482476002	**TEC-BASA-PERIMETER-DUP-091525**	EPA 200.7	948432	EPA 200.7	948468
60482476001	**MW-18-091525**	EPA 200.7	948538	EPA 200.7	948613
60482476002	**TEC-BASA-PERIMETER-DUP-091525**	EPA 200.7	948538	EPA 200.7	948613
60482476001	**MW-18-091525**	EPA 3010	948541	EPA 6010	948677
60482476002	**TEC-BASA-PERIMETER-DUP-091525**	EPA 3010	948541	EPA 6010	948677
60482476001	**MW-18-091525**	EPA 200.8	948427	EPA 200.8	948469
60482476002	**TEC-BASA-PERIMETER-DUP-091525**	EPA 200.8	948427	EPA 200.8	948469
60482476001	**MW-18-091525**	EPA 200.8	948539	EPA 200.8	948614
60482476002	**TEC-BASA-PERIMETER-DUP-091525**	EPA 200.8	948539	EPA 200.8	948614
60482476001	**MW-18-091525**	SM 2320B	948749		
60482476002	**TEC-BASA-PERIMETER-DUP-091525**	SM 2320B	948749		
60482476001	**MW-18-091525**	SM 2540C	948546		
60482476002	**TEC-BASA-PERIMETER-DUP-091525**	SM 2540C	948546		
60482476001	**MW-18-091525**	SM 3500-Fe B#4	948322		
60482476002	**TEC-BASA-PERIMETER-DUP-091525**	SM 3500-Fe B#4	948322		
60482476001	**MW-18-091525**	SM 4500-H+B	948419		
60482476002	**TEC-BASA-PERIMETER-DUP-091525**	SM 4500-H+B	948419		
60482476001	**MW-18-091525**	SM 4500-S-2 D	948478		
60482476002	**TEC-BASA-PERIMETER-DUP-091525**	SM 4500-S-2 D	948478		
60482476001	**MW-18-091525**	EPA 300.0	948331		
60482476002	**TEC-BASA-PERIMETER-DUP-091525**	EPA 300.0	948331		
60482476001	**MW-18-091525**	EPA 300.0	949729		
60482476002	**TEC-BASA-PERIMETER-DUP-091525**	EPA 300.0	949729		
60482476001	**MW-18-091525**	EPA 365.4	949523	EPA 365.4	949852
60482476002	**TEC-BASA-PERIMETER-DUP-091525**	EPA 365.4	949523	EPA 365.4	949852
60482476001	**MW-18-091525**	SM 5310C	949388		
60482476002	**TEC-BASA-PERIMETER-DUP-091525**	SM 5310C	949388		
60482476001	**MW-18-091525**	SM 5310C	950064		
60482476002	**TEC-BASA-PERIMETER-DUP-091525**	SM 5310C	950064		

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Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-LENE-0009_S	
	Revision: 2	Effective Date: 01/

WO# : 60482476

60482476

Client Name: Evergy Kansas Central, Inc.

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 ☑ ZPLC

Thermometer Used: T301 **Type of Ice:** (Wet) Blue None

Cooler Temperature (°C): **As-read** 4.5 **Corr. Factor** 0.0 **Corrected** 4.5

Date and initials of person examining contents: 9/16/25 SA

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	NOX
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#: 88721, 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

60482476

Scan QR Code for instructions

Company Name:	Evergy Kansas Central, Inc.	Contact/Report To:	Jake Humphrey
Street Address:	818 S Kansas Avenue, Topeka, KS 66612	Phone #:	(913)634-0605
		E-Mail:	jake.humphrey@evergy.com
		Cc E-Mail:	skaney@haleyaldrich.com
Customer Project #:			
Project Name:	TEC BASA PERIMETER - SHALLOW	Invoice To:	Tecumseh Center
		Invoice E-Mail:	evergyap@onlinecapturecenter.com
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	WSTR-2000094802
	Tecumseh Energy Center	Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [X] CT [ ] ET

County / State origin of sample(s): Kansas

Data Deliverables:
[ ] Level II [ ] Level III [ ] Level IV
[ ] EQUIS
[ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [ ] Yes [X] 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): [X] Yes [ ] No
Analysis: Metals, Dissolved; DOC

* 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)

**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	200.7/200.8 Diss Metals (FF)	200.7/200.8/6010 Total Metals	2320B Alkalinity	2540C Total Dissolved Solids	300.0 Cl,F,SO4,pH, NO2/NO3 (48 Hr Hold)	4500S2D Sulfide, Total	5310C Dissolved Organic Carbon (FF)	5310C TOC, Total Phosphorus	Iron, Ferrous		Sample Comment
Specify Container Size **										2	3	3	2	3	3	3	3	6		
Identify Container Preservative Type***										2	2	1	1	1	5,6	3	3	4		
Analysis Requested																				
			-	-				-	-											
			-	-				-	-											
			-	-				-	-											
MW-18-091525	GW	Grab	-	-	9/15/2025	1105	10	-	-	X	X	X	X	X	X	X	X	X		
			-	-				-	-											
TEC-BASA-PERIMETER-DUP-091525	GW	Grab	-	-	9/15/2025	1105	10	-	-	X	X	X	X	X	X	X	X	X		

Lab Use Only
Proj. Mgr: Alice Spiller
AcctNum / Client ID:
Table #:
Profile / Template: 16502
Prelog / Bottle Ord. ID: EZ 3295307

Preservation non-conformance identified for sample:

Additional Instructions from Pace®:
Sulfide reported to 0.025 mg/L
Total Metals; B, Ca, As, Ba, Co, Cr, Pb, Li, Mo, Se , Mg, Na , K, Al, Fe, Mn, Hardness
Dissolved Metals: As, Co, Fe, Al, Mg, Mn

Collected By: (Printed Name) Jason R. Franks
Signature: Jason R. Franks

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)	On Ice:
				4.5	

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Jason R. Franks / SCS	09/16/2025 / 16:00	Carmen June Pace	9/16 14:36

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 ©

Pace Analytical Services, LLC
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Lenexa, KS 66219
(913)599-5665

October 08, 2025

Jake Humphrey
Evergy, Inc.
818 S Kansas Avenue
Topeka, KS 66612

RE: Project: TEC BASA Perimeter Shallow RAD
Pace Project No.: 60482477

Dear Jake Humphrey:

Enclosed are the analytical results for sample(s) received by the laboratory on September 16, 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 - Greensburg

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

Sincerely,

Alice Spiller

Alice Spiller
alice.spiller@pacelabs.com
(913)599-5665
PM Lab Management

Enclosures

cc: Jordan Eichman, Haley & Aldrich, Inc.
Samantha Kaney, Haley & Aldrich
Melanie Satanek, Haley & Aldrich, Inc.
Adriana Sosa, Haley & Aldrich, Inc.
Nick Williams, Haley Aldrich

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CERTIFICATIONS

Project: TEC BASA Perimeter Shallow RAD
Pace Project No.: 60482477

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

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SAMPLE SUMMARY

Project: TEC BASA Perimeter Shallow RAD
Pace Project No.: 60482477

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60482477001	**MW-18-091525**	Water	09/15/25 11:05	09/16/25 14:36
60482477002	**TEC-BASA-PERIMETER-DUP-091525**	Water	09/15/25 11:05	09/16/25 14:36

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SAMPLE ANALYTE COUNT

Project: TEC BASA Perimeter Shallow RAD
Pace Project No.: 60482477

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60482477001	**MW-18-091525**	EPA 903.1	DSO	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
60482477002	**TEC-BASA-PERIMETER-DUP-091525**	EPA 903.1	DSO	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

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PROJECT NARRATIVE

Project: TEC BASA Perimeter Shallow RAD
Pace Project No.: 60482477

Method: **EPA 903.1**
Description: 903.1 Radium 226
Client: Evergy_Haley & Aldrich
Date: October 08, 2025

General Information:
2 samples were analyzed for EPA 903.1 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA Perimeter Shallow RAD
Pace Project No.: 60482477

Method: **EPA 904.0**
Description: 904.0 Radium 228
Client: Evergy_Haley & Aldrich
Date: October 08, 2025

General Information:
2 samples were analyzed for EPA 904.0 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA Perimeter Shallow RAD
Pace Project No.: 60482477

Method: **Total Radium Calculation**
Description: Total Radium 228+226
Client: Evergy_Haley & Aldrich
Date: October 08, 2025

General Information:
2 samples were analyzed for Total Radium Calculation by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: TEC BASA Perimeter Shallow RAD
Pace Project No.: 60482477

Sample: MW-18-091525 **Lab ID: 60482477001** Collected: 09/15/25 11:05 Received: 09/16/25 14:36 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	**0.0504 ± 0.297 (0.606) C:NA T:95%**	pCi/L	10/02/25 16:04	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**1.18 ± 0.468 (0.709) C:83% T:82%**	pCi/L	10/01/25 14:38	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.23 ± 0.554 (0.709)**	pCi/L	10/03/25 10:32	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: TEC BASA Perimeter Shallow RAD
Pace Project No.: 60482477

Sample: TEC-BASA-PERIMETER-DUP-091525 **Lab ID: 60482477002** Collected: 09/15/25 11:05 Received: 09/16/25 14:36 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	**-0.0507 ± 0.298 (0.664) C:NA T:98%**	pCi/L	10/02/25 16:04	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.857 ± 0.393 (0.659) C:95% T:86%**	pCi/L	10/01/25 14:38	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.857 ± 0.493 (0.664)**	pCi/L	10/03/25 10:32	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: TEC BASA Perimeter Shallow RAD
Pace Project No.: 60482477

QC Batch: 771835
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: 60482477001, 60482477002

METHOD BLANK: 3762825 Matrix: Water
Associated Lab Samples: 60482477001, 60482477002

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.759 ± 0.383 (0.656) C:88% T:85%	pCi/L	10/01/25 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

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QUALITY CONTROL - RADIOCHEMISTRY

Project: TEC BASA Perimeter Shallow RAD
Pace Project No.: 60482477

QC Batch: 771834
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: 60482477001, 60482477002

METHOD BLANK: 3762824 Matrix: Water
Associated Lab Samples: 60482477001, 60482477002

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0388 ± 0.177 (0.361) C:NA T:99%	pCi/L	10/02/25 15:40	

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

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QUALIFIERS

Project: TEC BASA Perimeter Shallow RAD
Pace Project No.: 60482477

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.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: TEC BASA Perimeter Shallow RAD
Pace Project No.: 60482477

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60482477001	**MW-18-091525**	EPA 903.1	771834		
60482477002	**TEC-BASA-PERIMETER-DUP-091525**	EPA 903.1	771834		
60482477001	**MW-18-091525**	EPA 904.0	771835		
60482477002	**TEC-BASA-PERIMETER-DUP-091525**	EPA 904.0	771835		
60482477001	**MW-18-091525**	Total Radium Calculation	774945		
60482477002	**TEC-BASA-PERIMETER-DUP-091525**	Total Radium Calculation	774945		

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Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-LENE-0009_Sam	WO# : 60482477
	Revision: 2	Effective Date: 01/12/2

60482477

Client Name: Evergy

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** 17.9 **Corr. Factor** +0.0 **Corrected** 17.9

Date and initials of person examining contents: CJ 9/16

Temperature should be above freezing to 6°C

Chain of Custody present:	☑Yes ☐No ☐N/A	*ice melted during Shipment
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#: 960888	☑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

60482477

Scan QR Code for instructions

Company Name:	Evergy Kansas Central, Inc.	Contact/Report To:	Jake Humphrey
Street Address:	818 S Kansas Avenue, Topeka, KS 66612	Phone #:	(913)634-0605
		E-Mail:	jake.humphrey@evergy.com
		Cc E-Mail:	skaney@haleyaldrich.com
Customer Project #:			
Project Name:	TEC BASA PERIMETER - SHALLOW RADCHEM	Invoice To:	Tecumseh Center
		Invoice E-Mail:	evergyap@onlinecapturecenter.com
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	WSTR-2000094802
	Tecumseh Energy Center	Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [X] CT [ ] ET

County / State origin of sample(s): Kansas

Data Deliverables:
[ ] Level II [ ] Level III [ ] Level IV
[ ] EQUIS
[ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [ ] Yes [X] 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 [X] 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	Radium 226, Radium 228, Radium 226/228 Combined Calc., QC Sheets
			-	-				-	-	
			-	-				-	-	
			-	-				-	-	
MW-18-091525	GW	Grab	-	-	9/15/2025	1105	2	-	-	X
			-	-				-	-	
TEC-BASA-PERIMETER-DUP-091525	GW	Grab	-	-	9/15/2025	1105	2	-	-	X

Specify Container Size **
1
Identify Container Preservative Type***
2
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: Alice Spiller
AcctNum / Client ID:
Table #:
Profile / Template: 16502
Prelog / Bottle Ord. ID: EZ 3295309

Sample Comment

Preservation non-conformance identified for sample.

Additional Instructions from Pace®:

Collected By:
(Printed Name) Jason R. Franks
Signature: Jason R. Franks

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)	On Ice:
				17.9	

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
Jason R. Franks / SCS	09/15/2025 / 16:00	Carmen June Pace	9/16 14:36	
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 1

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ENV-FRM-CORQ-0019_v02_110123 ©

DC#_Title: ENV-FRM-LENE-0001 v07_Sample Container Count
Effective Date: 7/12/2024

Client: Evergy Kansas Central Inc Profile/EZ # EZ3295309

Site: TEC BASA - Perimeter- Shallow Rockhem 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~~ CJ 9/16										
2																																
3																																
4	WT																					2										
5																																
6	WT																					2										
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#:60482477**

PM: AS Due Date: 10/15/25

CLIENT: Evergy_Haley

Internal Transfer Chain of Custody

☐ Rush Multiplier____X
☒ Samples Pre-Logged into eCOC

State Of Origin: KS
Cert. Needed: ☒ Yes ☐ No
Owner Received Date: 9/16/2025 **Results Requested By:** 10/15/2025

Workorder: 60482477 **Workorder Name:** TEC BASA Perimeter Shallow RAD

Report To	Subcontract To
Alice Spiller Pace Analytical Kansas 9608 Loiret Blvd. Lenexa, KS 66219 Phone (913)599-5665	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	QC Sheets	Radium 226	Radium 228 and combined	LAB USE ONLY
1	MW-18-091525	PS	9/15/2025 11:05	60482477001	Water	2	X	X	X	001
2	TEC-BASA-PERIMETER-DUP-091525	PS	9/15/2025 11:05	60482477002	Water	2	X	X	X	002
3										
4										
5										

Transfers	Released By	Date/Time	Received By	Date/Time
1	DF Pace	9/16 1700	[signature]	9/16/25 940
2				
3				

Comments
LOCATION: 60-R01-S2B

Cooler Temperature on Receipt 1.7 °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# : 30811590
30811590

DC#_Title: ENV-FRM-GBUR-0088 v09_Sample Condition Upon Receipt
Greensburg

Effective Date: 06/24/2025

WO# : 30811590

PM: CMC Due Date: 09/30/25

CLIENT: PACE_60_LEKS

Client Name: Pace-KS **Project**

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ Commercial ☐ Pace ☐ Other

Tracking Number: 4453 8937 0151

Initial / Date

Examined By: PS 9/18/25

Labeled By: PS 9/18/25

Temped By: MB 9.18.25

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

Therm. Used: 25 **Type of Ice:** (Wet) Blue None

Cooler Temp: Observed Temp 1.8 °C Correction Factor: -0.1 °C Final Temp: 1.7 °C

Temp should be above freezing to 6°C

Comments:	Yes	No	NA	pH paper Lot# 10143241 / 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.
-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:	✓			16.
exceptions: VOA, coliform, TOC, O&G, TOX, LL Hg, 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 MB / Date: 9-18-25 / 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.

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Test:	Ra-226
Analyst:	DSO
Date:	9/24/2025
Batch ID:	87149
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3762824
MB concentration:	0.039
MB 2 Sigma CSU:	0.177
MB MDC:	0.361
MB Numerical Performance Indicator:	0.43
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	N/A

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS87149	LCSD87149
Count Date:	10/2/2025	10/2/2025
Spike I.D.:	25-038	25-038
Spike Concentration (pCi/mL):	31.876	31.876
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.656	0.655
Target Conc. (pCi/L, g, F):	4.857	4.868
Uncertainty (Calculated):	0.228	0.229
Result (pCi/L, g, F):	4.500	4.277
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	1.004	0.964
Numerical Performance Indicator:	-0.68	-1.17
Percent Recovery:	92.65%	87.86%
Status vs Numerical Indicator:	Pass	Pass
Status vs Recovery:	N/A	N/A
Upper % Recovery Limits:	133%	133%
Lower % Recovery Limits:	73%	73%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS87149	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD87149	
Sample Result (pCi/L, g, F):	4.500	
Sample Result 2 Sigma CSU (pCi/L, g, F):	1.004	
Sample Duplicate Result (pCi/L, g, F):	4.277	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.964	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	0.314	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	5.31%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	N/A	
% RPD Limit:	32%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the RL.

Comments:

DD 10/2/25

TH 10.3.25

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Test:	Ra-228
Analyst:	JJS1
Date:	9/25/2025
Worklist:	87150
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3762825
MB concentration:	0.759
M/B 2 Sigma CSU:	0.383
MB MDC:	0.656
MB Numerical Performance Indicator:	3.89
MB Status vs Numerical Indicator:	Fail*
MB Status vs. MDC:	See Comment*

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS87150	LCSD87150
Count Date:	10/1/2025	10/1/2025
Spike I.D.:	23-043	23-043
Decay Corrected Spike Concentration (pCi/mL):	31.114	31.114
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.815	0.817
Target Conc. (pCi/L, g, F):	3.817	3.809
Uncertainty (Calculated):	0.187	0.187
Result (pCi/L, g, F):	3.394	2.474
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.857	0.704
Numerical Performance Indicator:	-0.94	-3.59
Percent Recovery:	88.93%	64.96%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS87150	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD87150	
Sample Result (pCi/L, g, F):	3.394	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.857	
Sample Duplicate Result (pCi/L, g, F):	2.474	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.704	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	1.625	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	31.15%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	36%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:
*The method blank result is below the reporting limit for this analysis and is acceptable.

VAL
10/2/25

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

October 08, 2025

Jake Humphrey
Evergy, Inc.
818 S Kansas Avenue
Topeka, KS 66612

RE: Project: TEC BASA RADCHEM
Pace Project No.: 60482478

Dear Jake Humphrey:

Enclosed are the analytical results for sample(s) received by the laboratory on September 16, 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 - Greensburg

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

Sincerely,

Alice Spiller

Alice Spiller
alice.spiller@pacelabs.com
(913)599-5665
PM Lab Management

Enclosures

cc: Jordan Eichman, Haley & Aldrich, Inc.
Samantha Kaney, Haley & Aldrich
Melanie Satanek, Haley & Aldrich, Inc.
Adriana Sosa, Haley & Aldrich, Inc.
Nick Williams, Haley Aldrich

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CERTIFICATIONS

Project: TEC BASA RADCHEM
Pace Project No.: 60482478

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

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SAMPLE SUMMARY

Project: TEC BASA RADCHEM
Pace Project No.: 60482478

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60482478001	**MW-7-091525**	Water	09/15/25 12:10	09/16/25 14:36
60482478002	**MW-10-091525**	Water	09/15/25 11:35	09/16/25 14:36
60482478003	**MW-11A-091525**	Water	09/15/25 12:55	09/16/25 14:36
60482478004	**MW-12-091525**	Water	09/15/25 13:30	09/16/25 14:36
60482478005	**MW-13-091525**	Water	09/15/25 15:45	09/16/25 14:36
60482478006	**MW-14-091625**	Water	09/15/25 09:30	09/16/25 14:36
60482478007	**TEC-BASA-DUP-091525**	Water	09/15/25 12:10	09/16/25 14:36

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SAMPLE ANALYTE COUNT

Project: TEC BASA RADCHEM
Pace Project No.: 60482478

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60482478001	**MW-7-091525**	EPA 903.1	TMY	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
60482478002	**MW-10-091525**	EPA 903.1	TMY	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
60482478003	**MW-11A-091525**	EPA 903.1	TMY	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
60482478004	**MW-12-091525**	EPA 903.1	TMY	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
60482478005	**MW-13-091525**	EPA 903.1	TMY	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
60482478006	**MW-14-091625**	EPA 903.1	TMY	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
60482478007	**TEC-BASA-DUP-091525**	EPA 903.1	TMY	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

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PROJECT NARRATIVE

Project: TEC BASA RADCHEM
Pace Project No.: 60482478

Method: **EPA 903.1**
Description: 903.1 Radium 226
Client: Evergy_Haley & Aldrich
Date: October 08, 2025

General Information:
7 samples were analyzed for EPA 903.1 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA RADCHEM
Pace Project No.: 60482478

Method: **EPA 904.0**
Description: 904.0 Radium 228
Client: Evergy_Haley & Aldrich
Date: October 08, 2025

General Information:
7 samples were analyzed for EPA 904.0 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA RADCHEM
Pace Project No.: 60482478

Method: **Total Radium Calculation**
Description: Total Radium 228+226
Client: Evergy_Haley & Aldrich
Date: October 08, 2025

General Information:
7 samples were analyzed for Total Radium Calculation by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: TEC BASA RADCHEM
Pace Project No.: 60482478

Sample: MW-7-091525 **Lab ID: 60482478001** Collected: 09/15/25 12:10 Received: 09/16/25 14:36 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	**0.109 ± 0.480 (0.911) C:NA T:88%**	pCi/L	10/03/25 15:04	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**-0.110 ± 0.381 (0.893) C:85% T:91%**	pCi/L	10/01/25 15:50	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.109 ± 0.613 (0.911)**	pCi/L	10/06/25 12:59	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: TEC BASA RADCHEM
Pace Project No.: 60482478

Sample: MW-10-091525 **Lab ID: 60482478002** Collected: 09/15/25 11:35 Received: 09/16/25 14:36 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	**0.412 ± 0.406 (0.618) C:NA T:97%**	pCi/L	10/03/25 15:17	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**1.50 ± 0.441 (0.531) C:113% T:91%**	pCi/L	10/01/25 15:50	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.91 ± 0.599 (0.618)**	pCi/L	10/06/25 12:59	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: TEC BASA RADCHEM
Pace Project No.: 60482478

Sample: MW-11A-091525 **Lab ID: 60482478003** Collected: 09/15/25 12:55 Received: 09/16/25 14:36 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	**0.192 ± 0.461 (0.836) C:NA T:97%**	pCi/L	10/03/25 15:17	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.730 ± 0.539 (1.04) C:53% T:87%**	pCi/L	10/01/25 15:50	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.922 ± 0.709 (1.04)**	pCi/L	10/06/25 12:59	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: TEC BASA RADCHEM
Pace Project No.: 60482478

Sample: MW-12-091525 **Lab ID: 60482478004** Collected: 09/15/25 13:30 Received: 09/16/25 14:36 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	**0.0961 ± 0.298 (0.577) C:NA T:99%**	pCi/L	10/03/25 15:17	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**1.60 ± 0.646 (0.985) C:56% T:85%**	pCi/L	10/01/25 15:50	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.70 ± 0.711 (0.985)**	pCi/L	10/06/25 12:59	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: TEC BASA RADCHEM
Pace Project No.: 60482478

Sample: MW-13-091525 **Lab ID: 60482478005** Collected: 09/15/25 15:45 Received: 09/16/25 14:36 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	**0.338 ± 0.369 (0.580) C:NA T:98%**	pCi/L	10/03/25 15:17	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.0927 ± 0.498 (1.14) C:52% T:88%**	pCi/L	10/01/25 15:50	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.431 ± 0.620 (1.14)**	pCi/L	10/06/25 12:59	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: TEC BASA RADCHEM
Pace Project No.: 60482478

Sample: MW-14-091625 **Lab ID: 60482478006** Collected: 09/15/25 09:30 Received: 09/16/25 14:36 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	**0.103 ± 0.474 (0.897) C:NA T:95%**	pCi/L	10/03/25 15:17	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.859 ± 0.451 (0.798) C:75% T:87%**	pCi/L	10/01/25 15:50	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.962 ± 0.654 (0.897)**	pCi/L	10/06/25 12:59	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: TEC BASA RADCHEM
Pace Project No.: 60482478

Sample: TEC-BASA-DUP-091525 **Lab ID: 60482478007** Collected: 09/15/25 12:10 Received: 09/16/25 14:36 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	**0.141 ± 0.496 (0.915) C:NA T:94%**	pCi/L	10/03/25 15:17	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.109 ± 0.327 (0.740) C:68% T:90%**	pCi/L	10/01/25 15:50	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.250 ± 0.594 (0.915)**	pCi/L	10/06/25 12:59	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: TEC BASA RADCHEM
Pace Project No.: 60482478

QC Batch: 771953
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: 60482478001, 60482478002, 60482478003, 60482478004, 60482478005, 60482478006, 60482478007

METHOD BLANK: 3763681 Matrix: Water
Associated Lab Samples: 60482478001, 60482478002, 60482478003, 60482478004, 60482478005, 60482478006, 60482478007

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.633 ± 0.374 (0.681) C:80% T:90%	pCi/L	10/01/25 15:49	

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.

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QUALITY CONTROL - RADIOCHEMISTRY

Project: TEC BASA RADCHEM
Pace Project No.: 60482478

QC Batch: 771952
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: 60482478001, 60482478002, 60482478003, 60482478004, 60482478005, 60482478006, 60482478007

METHOD BLANK: 3763680 Matrix: Water
Associated Lab Samples: 60482478001, 60482478002, 60482478003, 60482478004, 60482478005, 60482478006, 60482478007

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0782 ± 0.188 (0.363) C:NA T:100%	pCi/L	10/03/25 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.

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QUALIFIERS

Project: TEC BASA RADCHEM
Pace Project No.: 60482478

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.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: TEC BASA RADCHEM
Pace Project No.: 60482478

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60482478001	**MW-7-091525**	EPA 903.1	771952		
60482478002	**MW-10-091525**	EPA 903.1	771952		
60482478003	**MW-11A-091525**	EPA 903.1	771952		
60482478004	**MW-12-091525**	EPA 903.1	771952		
60482478005	**MW-13-091525**	EPA 903.1	771952		
60482478006	**MW-14-091625**	EPA 903.1	771952		
60482478007	**TEC-BASA-DUP-091525**	EPA 903.1	771952		
60482478001	**MW-7-091525**	EPA 904.0	771953		
60482478002	**MW-10-091525**	EPA 904.0	771953		
60482478003	**MW-11A-091525**	EPA 904.0	771953		
60482478004	**MW-12-091525**	EPA 904.0	771953		
60482478005	**MW-13-091525**	EPA 904.0	771953		
60482478006	**MW-14-091625**	EPA 904.0	771953		
60482478007	**TEC-BASA-DUP-091525**	EPA 904.0	771953		
60482478001	**MW-7-091525**	Total Radium Calculation	775278		
60482478002	**MW-10-091525**	Total Radium Calculation	775278		
60482478003	**MW-11A-091525**	Total Radium Calculation	775278		
60482478004	**MW-12-091525**	Total Radium Calculation	775278		
60482478005	**MW-13-091525**	Total Radium Calculation	775278		
60482478006	**MW-14-091625**	Total Radium Calculation	775278		
60482478007	**TEC-BASA-DUP-091525**	Total Radium Calculation	775278		

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WO# : 60482478

60482478

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

Client Name: Evergy Kansas Central

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 ☐ Gel Foam ☑ None ☐ Other ☐

Thermometer Used: 7701 **Type of Ice:** ~~Wet~~ Blue None

Cooler Temperature (°C): **As-read** 18.9 **Corr. Factor** 0.0 **Corrected** 18.9

Date and initials of person examining contents:

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® 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

60482478

Scan QR Code for instructions

Company Name:	Evergy Kansas Central, Inc.	Contact/Report To:	Jake Humphrey
Street Address:	818 S Kansas Avenue, Topeka, KS 66612	Phone #:	(913)634-0605
		E-Mail:	jake.humphrey@evergy.com
		Cc E-Mail:	skaney@haleyaldrich.com
Customer Project #:			
Project Name:	TEC BASA RADCHEM	Invoice To:	Tecumseh Center
		Invoice E-Mail:	evergyap@onlinecapturecenter.com
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	WSTR-2000094802
	Tecumseh Energy Center	Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [X] CT [ ] ET

County / State origin of sample(s): Kansas

Data Deliverables:
[ ] Level II [ ] Level III [ ] Level IV
[ ] EQUIS
[ ] Other _____

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [ ] Yes [X] 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 [X] 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	Radium 226, Radium 228, Radium 226/228 Combined Calc., QC Sheets	Sample Comment
MW-7-091525	WT	Grab	-	-	9/15/2025	1210	2	-	-	X	
MW-8-091625	NS	NS	-	-	NS	NS	NS	-	-	X	NS - No Sample; Insufficient Groundwater
MW-9-091525	NS	NS	-	-	NS	NS	NS	-	-	-	NS - No Sample; Insufficient Groundwater
MW-10-091525	WT	Grab	-	-	9/15/2025	1135	2	-	-	X	
MW-11A-091525	GW	Grab	-	-	9/15/2025	1255	2	-	-	X	
MW-12-091525	GW	Grab	-	-	9/15/2025	1330	2	-	-	X	
MW-13-091525	GW	Grab	-	-	9/15/2025	1545	2	-	-	X	
MW-14-091625	GW	Grab	-	-	9/16/2025	930	2	-	-	X	
TEC-BASA-DUP-091525	WT	Grab	-	-	9/15/2025	1210	2	-	-	X	

Specify Container Size **
1
Identify Container Preservative Type***
2
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: Alice Spiller
AcctNum / Client ID:
Table #:
Profile / Template: 16502
Prelog / Bottle Ord. ID: EZ 3295191

Preservation non-conformance identified for sample.

Additional Instructions from Pace®:

Collected By:
(Printed Name) Jason R. Franks
Signature: Jason R. Franks

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp (°C)	On Ice:
				18.4	

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
Jason R. Franks / SCS	09/16/2025 / 14:00	Carmen June Pace	9/16 14:36	
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 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/

Client: Evergy Kansas Central

Profile/EZ # EZ 3295191

Site: TEC BASA Red Chem

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		
3																																
4	WT																					2										
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: 60482478

Internal Transfer Chain of Custody

☐ Rush Multiplier_____X
☒ Samples Pre-Logged into eCOC

State Of Origin: KS
Cert. Needed: ☒ Yes ☐ No
Owner Received Date: 9/16/2025 Results Requested By: 10/15/2025

Workorder: 60482478 **Workorder Name:** TEC BASA RADCHEM

Report To	Subcontract To
Alice Spiller Pace Analytical Kansas 9608 Loiret Blvd. Lenexa, KS 66219 Phone (913)599-5665	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 QC Sheets	Radium 226	Radium 228 and combined									LAB USE ONLY
1	MW-7-091525	PS	9/15/2025 12:10	60482478001	Water	2						X	X	X									001
2	MW-10-091525	PS	9/15/2025 11:35	60482478002	Water	2						X	X	X									002
3	MW-11A-091525	PS	9/15/2025 12:55	60482478003	Water	2						X	X	X									003
4	MW-12-091525	PS	9/15/2025 13:30	60482478004	Water	2						X	X	X									004
5	MW-13-091525	PS	9/15/2025 15:45	60482478005	Water	2						X	X	X									005
6	MW-14-091625	PS	9/15/2025 09:30	60482478006	Water	2						X	X	X									006
7	TEC-BASA-DUP-091525	PS	9/15/2025 12:10	60482478007	Water	2						X	X	X									007

Transfers	Released By	Date/Time	Received By	Date/Time
1	DF Pace	9/17 1700	[signature]	9/18/25 940
2				
3				

Comments: LOCATION: 60-R01-S1A

Cooler Temperature on Receipt 4.4 °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# : 30811596

30811596

DC#_Title: ENV-FRM-GBUR-0088 v09_Sample Condition Upon Receipt-Greensburg

Effective Date: 06/24/2025

WO# : 30811596

PM: CMC Due Date: 09/30/25

CLIENT: PACE_60_LEKS

Client Name: Pace-LCS Pr

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other

Tracking Number: 445384370151

Initial / Date

Examined By: PS 9/18/25

Labeled By: PS 9/18/25

Temped By: MJB 9-18-25

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

Therm. Used: 25 **Type of Ice:** Wet Blue None

Cooler Temp: Observed Temp 4.5 °C Correction Factor: -0.1 °C Final Temp: 4.4 °C

Temp should be above freezing to 6°C

pH paper Lot# 10043241 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 dechlorination			✓	14:
Filtered volume received for dissolved tests: **Cr6+, Orthophosphate, DOC, Metals**			✓	15:
All containers checked for preservation:	✓			16.
exceptions: VOA, coliform, TOC, O&G, TOX, LL Hg, 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 MJB Date: 9-18-25 Survey Meter SN: 2501430

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.

Quality Control Sample Performance Assessment

Pace Analytical
www.pacelabs.com

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test:	Ra-226
Analyst:	TMY
Date:	9/24/2025
Batch ID:	87156
Matrix:	WT

Method Blank Assessment	
MB Sample ID	3763680
MB concentration:	0.078
M/B 2 Sigma CSU:	0.188
MB MDC:	0.363
MB Numerical Performance Indicator:	0.82
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	N/A

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS87156	**LCSD87156**
Count Date:	10/3/2025	10/3/2025
Spike I.D.:	25-038	25-038
Spike Concentration (pCi/mL):	31.876	31.876
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.654	0.652
Target Conc. (pCi/L, g, F):	4.870	4.887
Uncertainty (Calculated):	0.229	0.230
Result (pCi/L, g, F):	5.617	5.301
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	1.122	1.061
Numerical Performance Indicator:	1.28	0.75
Percent Recovery:	115.34%	108.47%
Status vs Numerical Indicator:	Pass	Pass
Status vs Recovery:	N/A	N/A
Upper % Recovery Limits:	133%	133%
Lower % Recovery Limits:	73%	73%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS87156	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD87156	
Sample Result (pCi/L, g, F):	5.617	
Sample Result 2 Sigma CSU (pCi/L, g, F):	1.122	
Sample Duplicate Result (pCi/L, g, F):	5.301	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.061	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	0.402	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	6.14%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	N/A	
% RPD Limit:	32%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the RL.

Comments:

DO 10/3/25

TM 10.6.25

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test:	Ra-228
Analyst:	VAL
Date:	9/25/2025
Worklist:	87157
Matrix:	WT

Method Blank Assessment	
MB Sample ID	3763681
MB concentration:	0.633
M/B 2 Sigma CSU:	0.374
MB MDC:	0.681
MB Numerical Performance Indicator:	3.32
MB Status vs Numerical Indicator:	Fail*
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS87157	LCSD87157
Count Date:	10/1/2025	10/1/2025
Spike I.D.:	23-043	23-043
Decay Corrected Spike Concentration (pCi/mL):	31.113	31.113
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.818	0.817
Target Conc. (pCi/L, g, F):	3.804	3.809
Uncertainty (Calculated):	0.186	0.187
Result (pCi/L, g, F):	4.230	3.683
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.970	0.929
Numerical Performance Indicator:	0.85	-0.26
Percent Recovery:	111.20%	96.70%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS87157	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD87157	
Sample Result (pCi/L, g, F):	4.230	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.970	
Sample Duplicate Result (pCi/L, g, F):	3.683	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.929	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	0.798	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	13.95%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	36%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

*If the lowest activity sample in this batch is ~~greater than ten times the blank value, the blank is acceptable, otherwise this batch must be re-prepped.~~

MA activity < MDC < 1

pass

VAL

10/3/25

SLL 10/3/25

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

October 10, 2025

Jake Humphrey
Evergy, Inc.
818 S Kansas Avenue
Topeka, KS 66612

RE: Project: TEC BASA-Revised Report
Pace Project No.: 60482480

Dear Jake Humphrey:

Enclosed are the analytical results for sample(s) received by the laboratory on September 16, 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 Client requested rerun of sample -002 for 200.8 As,Ba,Cr,Co,Pb, 6010 Li

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

Sincerely,

Alice Spiller

Alice Spiller
alice.spiller@pacelabs.com
(913)599-5665
PM Lab Management

Enclosures

cc: Jordan Eichman, Haley & Aldrich, Inc.
Samantha Kaney, Haley & Aldrich
Melanie Satanek, Haley & Aldrich, Inc.
Adriana Sosa, Haley & Aldrich, Inc.
Nick Williams, Haley Aldrich

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CERTIFICATIONS

Project: TEC BASA-Revised Report
Pace Project No.: 60482480

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

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SAMPLE SUMMARY

Project: TEC BASA-Revised Report
Pace Project No.: 60482480

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60482480001	**MW-7-091525**	Water	09/15/25 12:10	09/16/25 14:36
60482480002	**MW-8-091625**	Water	09/16/25 10:20	09/16/25 14:36
60482480003	**MW-10-091525**	Water	09/15/25 11:35	09/16/25 14:36
60482480004	**MW-11A-091525**	Water	09/15/25 12:55	09/16/25 14:36
60482480005	**MW-12-091525**	Water	09/15/25 13:30	09/16/25 14:36
60482480006	**MW-13-091525**	Water	09/15/25 15:45	09/16/25 14:36
60482480007	**MW-14-091625**	Water	09/16/25 09:30	09/16/25 14:36
60482480008	**TEC-BASA-DUP-091525**	Water	09/15/25 12:10	09/16/25 14:36

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: TEC BASA-Revised Report
Pace Project No.: 60482480

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60482480001	**MW-7-091525**	EPA 200.7	ARMN	2	PASI-K
		EPA 6010	ARMN	1	PASI-K
		EPA 200.8	CJM	7	PASI-K
		SM 2540C	CAR	1	PASI-K
		SM 4500-H+B	EMB	1	PASI-K
		EPA 300.0	GTS	2	PASI-K
		EPA 300.0	PL	3	PASI-K
60482480002	**MW-8-091625**	EPA 200.7	ARMN	2	PASI-K
		EPA 6010	ARMN	1	PASI-K
		EPA 200.8	CJM	7	PASI-K
		SM 2540C	CAR	1	PASI-K
		SM 4500-H+B	EMB	1	PASI-K
		EPA 300.0	GTS	2	PASI-K
		EPA 300.0	GTS, PL	3	PASI-K
60482480003	**MW-10-091525**	EPA 200.7	ARMN	2	PASI-K
		EPA 6010	ARMN	1	PASI-K
		EPA 200.8	CJM	7	PASI-K
		SM 2540C	CAR	1	PASI-K
		SM 4500-H+B	EMB	1	PASI-K
		EPA 300.0	GTS	2	PASI-K
		EPA 300.0	GTS, PL	3	PASI-K
60482480004	**MW-11A-091525**	EPA 200.7	ARMN	2	PASI-K
		EPA 6010	ARMN	1	PASI-K
		EPA 200.8	CJM	7	PASI-K
		SM 2540C	CAR	1	PASI-K
		SM 4500-H+B	EMB	1	PASI-K
		EPA 300.0	GTS	2	PASI-K
		EPA 300.0	GTS, PL	3	PASI-K
60482480005	**MW-12-091525**	EPA 200.7	ARMN	2	PASI-K
		EPA 6010	ARMN	1	PASI-K
		EPA 200.8	CJM	7	PASI-K
		SM 2540C	CAR	1	PASI-K
		SM 4500-H+B	EMB	1	PASI-K
		EPA 300.0	GTS	2	PASI-K
		EPA 300.0	GTS, PL	3	PASI-K
60482480006	**MW-13-091525**	EPA 200.7	ARMN	2	PASI-K
		EPA 6010	ARMN	1	PASI-K

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SAMPLE ANALYTE COUNT

Project: TEC BASA-Revised Report
Pace Project No.: 60482480

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 200.8	CJM	7	PASI-K
		SM 2540C	CAR	1	PASI-K
		SM 4500-H+B	EMB	1	PASI-K
		EPA 300.0	GTS	2	PASI-K
		EPA 300.0	GTS, PL	3	PASI-K
60482480007	**MW-14-091625**	EPA 200.7	ARMN	2	PASI-K
		EPA 6010	ARMN	1	PASI-K
		EPA 200.8	CJM	7	PASI-K
		SM 2540C	CAR	1	PASI-K
		SM 4500-H+B	EMB	1	PASI-K
		EPA 300.0	GTS	2	PASI-K
		EPA 300.0	GTS, PL	3	PASI-K
60482480008	**TEC-BASA-DUP-091525**	EPA 200.7	ARMN	2	PASI-K
		EPA 6010	ARMN	1	PASI-K
		EPA 200.8	CJM	7	PASI-K
		SM 2540C	CAR	1	PASI-K
		SM 4500-H+B	EMB	1	PASI-K
		EPA 300.0	GTS	2	PASI-K
		EPA 300.0	GTS, PL	3	PASI-K

PASI-K = Pace Analytical Services - Kansas City

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PROJECT NARRATIVE

Project: TEC BASA-Revised Report
Pace Project No.: 60482480

Method: **EPA 200.7**
Description: 200.7 Metals, Total
Client: Evergy_Haley & Aldrich
Date: October 10, 2025

General Information:
8 samples were analyzed for EPA 200.7 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 200.7 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 948432

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60482476002,60482480008

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 3759094)
  - Calcium
- MSD (Lab ID: 3759095)
  - Calcium

QC Batch: 948812

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60482481007,60482560001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 3760695)
  - Calcium
- MSD (Lab ID: 3760689)
  - Calcium

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA-Revised Report
Pace Project No.: 60482480

Method: **EPA 6010**
Description: 6010 MET ICP
Client: Evergy_Haley & Aldrich
Date: October 10, 2025

General Information:
8 samples were analyzed for EPA 6010 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA-Revised Report
Pace Project No.: 60482480

Method: **EPA 200.8**
Description: 200.8 MET ICPMS
Client: Evergy_Haley & Aldrich
Date: October 10, 2025

General Information:
8 samples were analyzed for EPA 200.8 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 200.8 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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Lenexa, KS 66219
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PROJECT NARRATIVE

Project: TEC BASA-Revised Report
Pace Project No.: 60482480

Method: **SM 2540C**
Description: 2540C Total Dissolved Solids
Client: Evergy_Haley & Aldrich
Date: October 10, 2025

General Information:
8 samples were analyzed for SM 2540C by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

QC Batch: 948919

D6: The precision between the sample and sample duplicate exceeded laboratory control limits.

- DUP (Lab ID: 3761135)
  - Total Dissolved Solids

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA-Revised Report
Pace Project No.: 60482480

Method: **SM 4500-H+B**
Description: 4500H+ pH, Electrometric
Client: Evergy_Haley & Aldrich
Date: October 10, 2025

General Information:
8 samples were analyzed for SM 4500-H+B by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

H1: Analysis conducted outside the EPA method holding time.
- MW-13-091525 (Lab ID: 60482480006)
- MW-14-091625 (Lab ID: 60482480007)
- MW-8-091625 (Lab ID: 60482480002)

H3: Sample was received or analysis requested beyond the recognized method holding time.
- MW-10-091525 (Lab ID: 60482480003)
- MW-11A-091525 (Lab ID: 60482480004)
- MW-12-091525 (Lab ID: 60482480005)
- MW-7-091525 (Lab ID: 60482480001)
- TEC-BASA-DUP-091525 (Lab ID: 60482480008)

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA-Revised Report
Pace Project No.: 60482480

Method: **EPA 300.0**
Description: 300.0 IC Anions
Client: Evergy_Haley & Aldrich
Date: October 10, 2025

General Information:
8 samples were analyzed for EPA 300.0 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 948331

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60481584001,60482480001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 3758691)
  - Nitrite as N

QC Batch: 948398

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60482480007

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 3758955)
  - Nitrite as N
- MSD (Lab ID: 3758956)
  - Nitrite as N

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA-Revised Report
Pace Project No.: 60482480

Method: **EPA 300.0**
Description: 300.0 IC Anions 28 Days
Client: Evergy_Haley & Aldrich
Date: October 10, 2025

General Information:
8 samples were analyzed for EPA 300.0 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 949729

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60482367002,60482480002

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 3764044)
  - Chloride
  - Fluoride
  - Sulfate

R1: RPD value was outside control limits.

- MSD (Lab ID: 3764045)
  - Chloride
  - Fluoride
  - Sulfate

Additional Comments:

Analyte Comments:

QC Batch: 949974

E: Analyte concentration exceeded the calibration range. The reported result is estimated.

- MS (Lab ID: 3765005)
  - Sulfate
- MSD (Lab ID: 3765006)
  - Sulfate

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TEC BASA-Revised Report
Pace Project No.: 60482480

Sample: MW-7-091525 **Lab ID: 60482480001** Collected: 09/15/25 12:10 Received: 09/16/25 14:36 Matrix: Water

Parameters	Results	Units	Report Limit	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							
Boron, Total Recoverable	**0.55**	mg/L	0.10	1	09/17/25 13:02	10/01/25 14:26	7440-42-8	
Calcium, Total Recoverable	**139**	mg/L	0.20	1	09/17/25 13:02	10/01/25 14:26	7440-70-2	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Kansas City							
Lithium, Total Recoverable	**0.036**	mg/L	0.010	1	09/18/25 14:18	10/02/25 16:01	7439-93-2	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City							
Arsenic, Total Recoverable	**0.0012**	mg/L	0.0010	1	09/17/25 13:02	09/22/25 11:09	7440-38-2	
Barium, Total Recoverable	**0.075**	mg/L	0.0010	1	09/17/25 13:02	09/22/25 11:09	7440-39-3	
Chromium, Total Recoverable	**0.0010**	mg/L	0.0010	1	09/17/25 13:02	09/22/25 11:09	7440-47-3	
Cobalt, Total Recoverable	**0.0015**	mg/L	0.0010	1	09/17/25 13:02	09/22/25 11:09	7440-48-4	
Lead, Total Recoverable	**0.0015**	mg/L	0.0010	1	09/17/25 13:02	09/22/25 11:09	7439-92-1	
Molybdenum, Total Recoverable	**0.015**	mg/L	0.0010	1	09/17/25 13:02	09/22/25 11:09	7439-98-7	
Selenium, Total Recoverable	**<0.0010**	mg/L	0.0010	1	09/17/25 13:02	09/22/25 11:09	7782-49-2	
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City							
Total Dissolved Solids	**1070**	mg/L	20.0	1		09/18/25 15:51		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Kansas City							
pH at 25 Degrees C	**7.1**	Std. Units	0.10	1		09/17/25 16:44		H3
300.0 IC Anions	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City							
Nitrate as N	**0.27**	mg/L	0.10	1		09/17/25 01:44	14797-55-8	
Nitrite as N	**<0.10**	mg/L	0.10	1		09/17/25 01:44	14797-65-0	CL,M1
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City							
Chloride	**167**	mg/L	20.0	20		09/27/25 18:59	16887-00-6	
Fluoride	**<0.20**	mg/L	0.20	1		09/27/25 18:46	16984-48-8	
Sulfate	**207**	mg/L	20.0	20		09/27/25 18:59	14808-79-8	

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ANALYTICAL RESULTS

Project: TEC BASA-Revised Report
Pace Project No.: 60482480

Sample: MW-8-091625 **Lab ID: 60482480002** Collected: 09/16/25 10:20 Received: 09/16/25 14:36 Matrix: Water

Parameters	Results	Units	Report Limit	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							
Boron, Total Recoverable	**1.0**	mg/L	0.10	1	09/17/25 13:02	10/01/25 14:28	7440-42-8	
Calcium, Total Recoverable	**182**	mg/L	0.20	1	09/17/25 13:02	10/01/25 14:28	7440-70-2	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Kansas City							
Lithium, Total Recoverable	**0.051**	mg/L	0.010	1	10/07/25 07:41	10/09/25 15:18	7439-93-2	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City							
Arsenic, Total Recoverable	**0.020**	mg/L	0.0010	1	10/07/25 07:41	10/07/25 13:29	7440-38-2	
Barium, Total Recoverable	**260**	ug/L	1.0	1	10/07/25 07:41	10/07/25 13:29	7440-39-3	
Chromium, Total Recoverable	**0.046**	mg/L	0.0010	1	10/07/25 07:41	10/07/25 13:29	7440-47-3	
Cobalt, Total Recoverable	**0.015**	mg/L	0.0010	1	10/07/25 07:41	10/07/25 13:29	7440-48-4	
Lead, Total Recoverable	**0.024**	mg/L	0.0010	1	10/07/25 07:41	10/07/25 13:29	7439-92-1	
Molybdenum, Total Recoverable	**0.041**	mg/L	0.0010	1	09/17/25 13:02	09/22/25 11:12	7439-98-7	
Selenium, Total Recoverable	**0.0085**	mg/L	0.0010	1	09/17/25 13:02	09/22/25 11:12	7782-49-2	
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City							
Total Dissolved Solids	**1310**	mg/L	20.0	1		09/22/25 14:21		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Kansas City							
pH at 25 Degrees C	**7.5**	Std. Units	0.10	1		09/17/25 16:44		H1
300.0 IC Anions	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City							
Nitrate as N	**0.13**	mg/L	0.10	1		09/17/25 17:15	14797-55-8	
Nitrite as N	**<0.10**	mg/L	0.10	1		09/17/25 17:15	14797-65-0	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City							
Chloride	**197**	mg/L	20.0	20		09/27/25 20:02	16887-00-6	
Fluoride	**<0.20**	mg/L	0.20	1		10/01/25 00:31	16984-48-8	
Sulfate	**614**	mg/L	100	100		09/27/25 20:27	14808-79-8	

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ANALYTICAL RESULTS

Project: TEC BASA-Revised Report
Pace Project No.: 60482480

Sample: MW-10-091525 **Lab ID: 60482480003** Collected: 09/15/25 11:35 Received: 09/16/25 14:36 Matrix: Water

Parameters	Results	Units	Report Limit	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							
Boron, Total Recoverable	**0.28**	mg/L	0.10	1	09/17/25 13:02	10/01/25 14:30	7440-42-8	
Calcium, Total Recoverable	**157**	mg/L	0.20	1	09/17/25 13:02	10/01/25 14:30	7440-70-2	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Kansas City							
Lithium, Total Recoverable	**0.015**	mg/L	0.010	1	09/18/25 14:18	10/02/25 16:04	7439-93-2	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City							
Arsenic, Total Recoverable	**0.0037**	mg/L	0.0010	1	09/17/25 13:02	09/22/25 11:20	7440-38-2	
Barium, Total Recoverable	**0.16**	mg/L	0.0010	1	09/17/25 13:02	09/22/25 11:20	7440-39-3	
Chromium, Total Recoverable	**<0.0010**	mg/L	0.0010	1	09/17/25 13:02	09/22/25 11:20	7440-47-3	
Cobalt, Total Recoverable	**0.0065**	mg/L	0.0010	1	09/17/25 13:02	09/22/25 11:20	7440-48-4	
Lead, Total Recoverable	**<0.0010**	mg/L	0.0010	1	09/17/25 13:02	09/22/25 11:20	7439-92-1	
Molybdenum, Total Recoverable	**0.0030**	mg/L	0.0010	1	09/17/25 13:02	09/22/25 11:20	7439-98-7	
Selenium, Total Recoverable	**<0.0010**	mg/L	0.0010	1	09/17/25 13:02	09/22/25 11:20	7782-49-2	
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City							
Total Dissolved Solids	**1360**	mg/L	40.0	1		09/18/25 15:51		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Kansas City							
pH at 25 Degrees C	**6.8**	Std. Units	0.10	1		09/17/25 16:44		H3
300.0 IC Anions	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City							
Nitrate as N	**3.6**	mg/L	0.10	1		09/17/25 00:48	14797-55-8	
Nitrite as N	**<0.10**	mg/L	0.10	1		09/17/25 00:48	14797-65-0	CL
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City							
Chloride	**318**	mg/L	20.0	20		09/27/25 21:05	16887-00-6	
Fluoride	**<0.20**	mg/L	0.20	1		10/01/25 00:44	16984-48-8	
Sulfate	**181**	mg/L	20.0	20		09/27/25 21:05	14808-79-8	

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ANALYTICAL RESULTS

Project: TEC BASA-Revised Report
Pace Project No.: 60482480

Sample: MW-11A-091525 **Lab ID: 60482480004** Collected: 09/15/25 12:55 Received: 09/16/25 14:36 Matrix: Water

Parameters	Results	Units	Report Limit	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							
Boron, Total Recoverable	**0.36**	mg/L	0.10	1	09/19/25 14:00	09/30/25 14:02	7440-42-8	
Calcium, Total Recoverable	**235**	mg/L	0.20	1	09/19/25 14:00	09/30/25 14:02	7440-70-2	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Kansas City							
Lithium, Total Recoverable	**0.041**	mg/L	0.010	1	09/18/25 14:18	10/02/25 16:12	7439-93-2	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City							
Arsenic, Total Recoverable	**<0.0010**	mg/L	0.0010	1	09/19/25 14:00	09/23/25 12:34	7440-38-2	
Barium, Total Recoverable	**0.041**	mg/L	0.0010	1	09/19/25 14:00	09/23/25 12:34	7440-39-3	
Chromium, Total Recoverable	**0.0010**	mg/L	0.0010	1	09/19/25 14:00	09/23/25 12:34	7440-47-3	
Cobalt, Total Recoverable	**0.011**	mg/L	0.0010	1	09/19/25 14:00	09/23/25 12:34	7440-48-4	
Lead, Total Recoverable	**0.0014**	mg/L	0.0010	1	09/19/25 14:00	09/23/25 12:34	7439-92-1	
Molybdenum, Total Recoverable	**0.0023**	mg/L	0.0010	1	09/19/25 14:00	09/23/25 12:34	7439-98-7	
Selenium, Total Recoverable	**<0.0010**	mg/L	0.0010	1	09/19/25 14:00	09/23/25 12:34	7782-49-2	
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City							
Total Dissolved Solids	**1810**	mg/L	66.7	1		09/18/25 15:52		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Kansas City							
pH at 25 Degrees C	**6.9**	Std. Units	0.10	1		09/17/25 16:44		H3
300.0 IC Anions	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City							
Nitrate as N	**<0.10**	mg/L	0.10	1		09/17/25 04:30	14797-55-8	
Nitrite as N	**<0.10**	mg/L	0.10	1		09/17/25 04:30	14797-65-0	CL
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City							
Chloride	**524**	mg/L	400	400		09/27/25 22:07	16887-00-6	
Fluoride	**<0.20**	mg/L	0.20	1		10/01/25 00:56	16984-48-8	
Sulfate	**445**	mg/L	400	400		09/27/25 22:07	14808-79-8	

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ANALYTICAL RESULTS

Project: TEC BASA-Revised Report
Pace Project No.: 60482480

Sample: MW-12-091525 **Lab ID: 60482480005** Collected: 09/15/25 13:30 Received: 09/16/25 14:36 Matrix: Water

Parameters	Results	Units	Report Limit	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							
Boron, Total Recoverable	**0.44**	mg/L	0.10	1	09/17/25 13:02	10/01/25 12:32	7440-42-8	
Calcium, Total Recoverable	**203**	mg/L	0.20	1	09/17/25 13:02	10/01/25 12:32	7440-70-2	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Kansas City							
Lithium, Total Recoverable	**0.035**	mg/L	0.010	1	09/18/25 14:18	10/02/25 16:14	7439-93-2	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City							
Arsenic, Total Recoverable	**0.013**	mg/L	0.0010	1	09/17/25 13:02	09/22/25 11:23	7440-38-2	
Barium, Total Recoverable	**0.070**	mg/L	0.0010	1	09/17/25 13:02	09/22/25 11:23	7440-39-3	
Chromium, Total Recoverable	**<0.0010**	mg/L	0.0010	1	09/17/25 13:02	09/22/25 11:23	7440-47-3	
Cobalt, Total Recoverable	**0.030**	mg/L	0.0010	1	09/17/25 13:02	09/22/25 11:23	7440-48-4	
Lead, Total Recoverable	**<0.0010**	mg/L	0.0010	1	09/17/25 13:02	09/22/25 11:23	7439-92-1	
Molybdenum, Total Recoverable	**0.0051**	mg/L	0.0010	1	09/17/25 13:02	09/22/25 11:23	7439-98-7	
Selenium, Total Recoverable	**<0.0010**	mg/L	0.0010	1	09/17/25 13:02	09/22/25 11:23	7782-49-2	
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City							
Total Dissolved Solids	**1500**	mg/L	40.0	1		09/18/25 15:52		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Kansas City							
pH at 25 Degrees C	**6.8**	Std. Units	0.10	1		09/17/25 16:44		H3
300.0 IC Anions	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City							
Nitrate as N	**2.9**	mg/L	0.10	1		09/17/25 05:53	14797-55-8	
Nitrite as N	**<0.10**	mg/L	0.10	1		09/17/25 05:53	14797-65-0	CL
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City							
Chloride	**365**	mg/L	20.0	20		09/27/25 22:33	16887-00-6	
Fluoride	**<0.20**	mg/L	0.20	1		10/01/25 01:10	16984-48-8	
Sulfate	**337**	mg/L	20.0	20		09/27/25 22:33	14808-79-8	

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ANALYTICAL RESULTS

Project: TEC BASA-Revised Report
Pace Project No.: 60482480

Sample: MW-13-091525 **Lab ID: 60482480006** Collected: 09/15/25 15:45 Received: 09/16/25 14:36 Matrix: Water

Parameters	Results	Units	Report Limit	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							
Boron, Total Recoverable	**1.1**	mg/L	0.10	1	09/17/25 13:02	10/01/25 12:34	7440-42-8	
Calcium, Total Recoverable	**197**	mg/L	0.20	1	09/17/25 13:02	10/01/25 12:34	7440-70-2	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Kansas City							
Lithium, Total Recoverable	**0.017**	mg/L	0.010	1	09/18/25 14:18	10/02/25 16:16	7439-93-2	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City							
Arsenic, Total Recoverable	**0.0074**	mg/L	0.0010	1	09/17/25 13:02	09/22/25 11:26	7440-38-2	
Barium, Total Recoverable	**0.066**	mg/L	0.0010	1	09/17/25 13:02	09/22/25 11:26	7440-39-3	
Chromium, Total Recoverable	**0.0015**	mg/L	0.0010	1	09/17/25 13:02	09/22/25 11:26	7440-47-3	
Cobalt, Total Recoverable	**<0.0010**	mg/L	0.0010	1	09/17/25 13:02	09/22/25 11:26	7440-48-4	
Lead, Total Recoverable	**<0.0010**	mg/L	0.0010	1	09/17/25 13:02	09/22/25 11:26	7439-92-1	
Molybdenum, Total Recoverable	**0.044**	mg/L	0.0010	1	09/17/25 13:02	09/22/25 11:26	7439-98-7	
Selenium, Total Recoverable	**0.0012**	mg/L	0.0010	1	09/17/25 13:02	09/22/25 11:26	7782-49-2	
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City							
Total Dissolved Solids	**1400**	mg/L	40.0	1		09/18/25 15:52		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Kansas City							
pH at 25 Degrees C	**7.8**	Std. Units	0.10	1		09/17/25 16:44		H1
300.0 IC Anions	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City							
Nitrate as N	**0.44**	mg/L	0.10	1		09/17/25 07:16	14797-55-8	
Nitrite as N	**<0.10**	mg/L	0.10	1		09/17/25 07:16	14797-65-0	CL
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City							
Chloride	**195**	mg/L	20.0	20		09/27/25 22:58	16887-00-6	
Fluoride	**<0.20**	mg/L	0.20	1		10/01/25 01:23	16984-48-8	
Sulfate	**660**	mg/L	100	100		09/27/25 23:10	14808-79-8	

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ANALYTICAL RESULTS

Project: TEC BASA-Revised Report
Pace Project No.: 60482480

Sample: MW-14-091625 **Lab ID: 60482480007** Collected: 09/16/25 09:30 Received: 09/16/25 14:36 Matrix: Water

Parameters	Results	Units	Report Limit	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							
Boron, Total Recoverable	**0.91**	mg/L	0.10	1	09/17/25 13:02	10/01/25 12:36	7440-42-8	
Calcium, Total Recoverable	**184**	mg/L	0.20	1	09/17/25 13:02	10/01/25 12:36	7440-70-2	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Kansas City							
Lithium, Total Recoverable	**0.042**	mg/L	0.010	1	09/18/25 14:18	10/02/25 16:18	7439-93-2	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City							
Arsenic, Total Recoverable	**0.0018**	mg/L	0.0010	1	09/17/25 13:02	09/22/25 11:34	7440-38-2	
Barium, Total Recoverable	**0.030**	mg/L	0.0010	1	09/17/25 13:02	09/22/25 11:34	7440-39-3	
Chromium, Total Recoverable	**0.0016**	mg/L	0.0010	1	09/17/25 13:02	09/22/25 11:34	7440-47-3	
Cobalt, Total Recoverable	**0.0010**	mg/L	0.0010	1	09/17/25 13:02	09/22/25 11:34	7440-48-4	
Lead, Total Recoverable	**<0.0010**	mg/L	0.0010	1	09/17/25 13:02	09/22/25 11:34	7439-92-1	
Molybdenum, Total Recoverable	**0.023**	mg/L	0.0010	1	09/17/25 13:02	09/22/25 11:34	7439-98-7	
Selenium, Total Recoverable	**0.0020**	mg/L	0.0010	1	09/17/25 13:02	09/22/25 11:34	7782-49-2	
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City							
Total Dissolved Solids	**1460**	mg/L	40.0	1		09/22/25 14:21		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Kansas City							
pH at 25 Degrees C	**7.4**	Std. Units	0.10	1		09/17/25 16:44		H1
300.0 IC Anions	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City							
Nitrate as N	**1.1**	mg/L	0.10	1		09/17/25 14:38	14797-55-8	
Nitrite as N	**<0.10**	mg/L	0.10	1		09/17/25 14:38	14797-65-0	M1
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City							
Chloride	**230**	mg/L	20.0	20		09/27/25 23:35	16887-00-6	
Fluoride	**<0.20**	mg/L	0.20	1		10/01/25 01:36	16984-48-8	
Sulfate	**498**	mg/L	100	100		10/01/25 01:50	14808-79-8	

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ANALYTICAL RESULTS

Project: TEC BASA-Revised Report
Pace Project No.: 60482480

Sample: TEC-BASA-DUP-091525 **Lab ID: 60482480008** Collected: 09/15/25 12:10 Received: 09/16/25 14:36 Matrix: Water

Parameters	Results	Units	Report Limit	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							
Boron, Total Recoverable	**0.55**	mg/L	0.10	1	09/17/25 13:02	10/01/25 12:38	7440-42-8	
Calcium, Total Recoverable	**141**	mg/L	0.20	1	09/17/25 13:02	10/01/25 12:38	7440-70-2	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Kansas City							
Lithium, Total Recoverable	**0.037**	mg/L	0.010	1	09/18/25 14:18	10/02/25 16:19	7439-93-2	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City							
Arsenic, Total Recoverable	**0.0012**	mg/L	0.0010	1	09/17/25 13:02	09/22/25 11:40	7440-38-2	
Barium, Total Recoverable	**0.075**	mg/L	0.0010	1	09/17/25 13:02	09/22/25 11:40	7440-39-3	
Chromium, Total Recoverable	**<0.0010**	mg/L	0.0010	1	09/17/25 13:02	09/22/25 11:40	7440-47-3	
Cobalt, Total Recoverable	**0.0015**	mg/L	0.0010	1	09/17/25 13:02	09/22/25 11:40	7440-48-4	
Lead, Total Recoverable	**<0.0010**	mg/L	0.0010	1	09/17/25 13:02	09/22/25 11:40	7439-92-1	
Molybdenum, Total Recoverable	**0.015**	mg/L	0.0010	1	09/17/25 13:02	09/22/25 11:40	7439-98-7	
Selenium, Total Recoverable	**<0.0010**	mg/L	0.0010	1	09/17/25 13:02	09/22/25 11:40	7782-49-2	
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City							
Total Dissolved Solids	**1050**	mg/L	20.0	1		09/18/25 15:52		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Kansas City							
pH at 25 Degrees C	**7.1**	Std. Units	0.10	1		09/17/25 16:44		H3
300.0 IC Anions	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City							
Nitrate as N	**<0.10**	mg/L	0.10	1		09/17/25 03:07	14797-55-8	
Nitrite as N	**<0.10**	mg/L	0.10	1		09/17/25 03:07	14797-65-0	CL
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City							
Chloride	**171**	mg/L	20.0	20		09/28/25 00:01	16887-00-6	
Fluoride	**<0.20**	mg/L	0.20	1		10/01/25 02:03	16984-48-8	
Sulfate	**211**	mg/L	20.0	20		09/28/25 00:01	14808-79-8	

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QUALITY CONTROL DATA

Project: TEC BASA-Revised Report
Pace Project No.: 60482480

QC Batch: 948432 | Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 | Analysis Description: 200.7 Metals, Total
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60482480001, 60482480002, 60482480003, 60482480005, 60482480006, 60482480007, 60482480008

METHOD BLANK: 3759092 Matrix: Water
Associated Lab Samples: 60482480001, 60482480002, 60482480003, 60482480005, 60482480006, 60482480007, 60482480008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Boron	mg/L	<0.10	0.10	10/01/25 14:15	
Calcium	mg/L	<0.20	0.20	10/01/25 14:15	

LABORATORY CONTROL SAMPLE: 3759093

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	mg/L	1	0.95	95	85-115	
Calcium	mg/L	10	10.1	101	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3759094 3759095

Parameter	Units	60482476002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Boron	mg/L	0.52	1	1	1.5	1.5	99	96	70-130	2	20	
Calcium	mg/L	248	10	10	264	254	155	60	70-130	4	20	M1

MATRIX SPIKE SAMPLE: 3759096

Parameter	Units	60482480008 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Boron	mg/L	0.55	1	1.5	99	70-130	
Calcium	mg/L	141	10	152	115	70-130	

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QUALITY CONTROL DATA

Project: TEC BASA-Revised Report
Pace Project No.: 60482480

QC Batch: 948812
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: 60482480004

METHOD BLANK: 3760686 Matrix: Water
Associated Lab Samples: 60482480004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Boron	mg/L	<0.10	0.10	09/30/25 13:53	
Calcium	mg/L	<0.20	0.20	09/30/25 13:53	

LABORATORY CONTROL SAMPLE: 3760687

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	mg/L	1	0.96	96	85-115	
Calcium	mg/L	10	10.3	103	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3760688 3760689

Parameter	Units	60482560001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Boron	mg/L	393 ug/L	1	1	1.4	1.3	97	94	70-130	2	20	
Calcium	mg/L	144000 ug/L	10	10	154	149	96	50	70-130	3	20	M1

MATRIX SPIKE SAMPLE: 3760695

Parameter	Units	60482481007 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Boron	mg/L	894 ug/L	1	1.8	92	70-130	
Calcium	mg/L	179000 ug/L	10	181	14	70-130	M1

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QUALITY CONTROL DATA

Project: TEC BASA-Revised Report
Pace Project No.: 60482480

QC Batch: 948427
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: 60482480001, 60482480002, 60482480003, 60482480005, 60482480006, 60482480007, 60482480008

METHOD BLANK: 3759081 Matrix: Water
Associated Lab Samples: 60482480001, 60482480002, 60482480003, 60482480005, 60482480006, 60482480007, 60482480008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/L	<0.0010	0.0010	09/22/25 10:46	
Barium	mg/L	<0.0010	0.0010	09/22/25 10:46	
Chromium	mg/L	<0.0010	0.0010	09/22/25 10:46	
Cobalt	mg/L	<0.0010	0.0010	09/22/25 10:46	
Lead	mg/L	<0.0010	0.0010	09/22/25 10:46	
Molybdenum	mg/L	<0.0010	0.0010	09/22/25 10:46	
Selenium	mg/L	<0.0010	0.0010	09/22/25 10:46	

LABORATORY CONTROL SAMPLE: 3759082

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	0.04	0.040	101	85-115	
Barium	mg/L	0.04	0.041	102	85-115	
Chromium	mg/L	0.04	0.041	102	85-115	
Cobalt	mg/L	0.04	0.041	104	85-115	
Lead	mg/L	0.04	0.041	102	85-115	
Molybdenum	mg/L	0.04	0.041	102	85-115	
Selenium	mg/L	0.04	0.041	101	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3759083 3759084

Parameter	Units	60482476001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/L	0.013	0.04	0.04	0.052	0.050	98	92	70-130	5	20	
Barium	mg/L	0.21	0.04	0.04	0.25	0.24	101	95	70-130	1	20	
Chromium	mg/L	0.022	0.04	0.04	0.066	0.064	110	106	70-130	3	20	
Cobalt	mg/L	0.016	0.04	0.04	0.054	0.053	94	91	70-130	2	20	
Lead	mg/L	0.014	0.04	0.04	0.054	0.052	99	94	70-130	4	20	
Molybdenum	mg/L	0.0076	0.04	0.04	0.051	0.049	108	103	70-130	4	20	
Selenium	mg/L	0.0038	0.04	0.04	0.041	0.039	94	88	70-130	5	20	

MATRIX SPIKE SAMPLE: 3759097

Parameter	Units	60482480007 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	0.0018	0.04	0.043	102	70-130	
Barium	mg/L	0.030	0.04	0.072	104	70-130	

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QUALITY CONTROL DATA

Project: TEC BASA-Revised Report
Pace Project No.: 60482480

MATRIX SPIKE SAMPLE: 3759097

Parameter	Units	60482480007 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chromium	mg/L	0.0016	0.04	0.039	93	70-130	
Cobalt	mg/L	0.0010	0.04	0.043	106	70-130	
Lead	mg/L	<0.0010	0.04	0.039	95	70-130	
Molybdenum	mg/L	0.023	0.04	0.068	113	70-130	
Selenium	mg/L	0.0020	0.04	0.040	95	70-130	

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QUALITY CONTROL DATA

Project: TEC BASA-Revised Report
Pace Project No.: 60482480

QC Batch: 948813
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: 60482480004

METHOD BLANK: 3760691 Matrix: Water
Associated Lab Samples: 60482480004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/L	<0.0010	0.0010	09/23/25 12:11	
Barium	mg/L	<0.0010	0.0010	09/23/25 12:11	
Chromium	mg/L	<0.0010	0.0010	09/23/25 12:11	
Cobalt	mg/L	<0.0010	0.0010	09/23/25 12:11	
Lead	mg/L	<0.0010	0.0010	09/23/25 12:11	
Molybdenum	mg/L	<0.0010	0.0010	09/23/25 12:11	
Selenium	mg/L	<0.0010	0.0010	09/23/25 12:11	

LABORATORY CONTROL SAMPLE: 3760692

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	0.04	0.040	100	85-115	
Barium	mg/L	0.04	0.041	102	85-115	
Chromium	mg/L	0.04	0.041	102	85-115	
Cobalt	mg/L	0.04	0.041	103	85-115	
Lead	mg/L	0.04	0.040	100	85-115	
Molybdenum	mg/L	0.04	0.041	102	85-115	
Selenium	mg/L	0.04	0.041	101	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3760693 3760694

Parameter	Units	60482481001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/L	0.0011	0.04	0.04	0.041	0.041	100	100	70-130	0	20	
Barium	mg/L	67.8 ug/L	0.04	0.04	0.11	0.11	108	110	70-130	1	20	
Chromium	mg/L	0.00038J	0.04	0.04	0.038	0.038	93	93	70-130	0	20	
Cobalt	mg/L	0.00079J	0.04	0.04	0.042	0.042	102	102	70-130	0	20	
Lead	mg/L	<0.00023	0.04	0.04	0.042	0.042	105	104	70-130	2	20	
Molybdenum	mg/L	0.015	0.04	0.04	0.058	0.058	108	107	70-130	0	20	
Selenium	mg/L	<0.19 ug/L	0.04	0.04	0.039	0.038	96	96	70-130	1	20	

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QUALITY CONTROL DATA

Project: TEC BASA-Revised Report
Pace Project No.: 60482480

QC Batch: 950659
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: 60482480002

METHOD BLANK: 3767519 Matrix: Water
Associated Lab Samples: 60482480002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/L	<0.0010	0.0010	10/07/25 13:17	
Barium	ug/L	<1.0	1.0	10/07/25 13:17	
Chromium	mg/L	<0.0010	0.0010	10/07/25 13:17	
Cobalt	mg/L	<0.0010	0.0010	10/07/25 13:17	
Lead	mg/L	<0.0010	0.0010	10/07/25 13:17	

LABORATORY CONTROL SAMPLE: 3767520

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	0.04	0.038	95	85-115	
Barium	ug/L	40	39.2	98	85-115	
Chromium	mg/L	0.04	0.040	99	85-115	
Cobalt	mg/L	0.04	0.040	100	85-115	
Lead	mg/L	0.04	0.039	97	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3767521 3767522

Parameter	Units	60482167003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/L	<1.0 ug/L	0.04	0.04	0.040	0.040	98	99	70-130	0	20	
Barium	ug/L	0.016 mg/L	40	40	56.2	56.9	100	102	70-130	1	20	
Chromium	mg/L	<1.0 ug/L	0.04	0.04	0.040	0.040	98	98	70-130	0	20	
Cobalt	mg/L	0.0010	0.04	0.04	0.039	0.039	95	95	70-130	0	20	
Lead	mg/L	<1.0 ug/L	0.04	0.04	0.041	0.041	103	103	70-130	0	20	

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QUALITY CONTROL DATA

Project: TEC BASA-Revised Report
Pace Project No.: 60482480

QC Batch: 948541 | Analysis Method: EPA 6010
QC Batch Method: EPA 3010 | Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60482480001, 60482480003, 60482480004, 60482480005, 60482480006, 60482480007, 60482480008

METHOD BLANK: 3759527 Matrix: Water
Associated Lab Samples: 60482480001, 60482480003, 60482480004, 60482480005, 60482480006, 60482480007, 60482480008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lithium	mg/L	<0.010	0.010	10/02/25 15:50	

LABORATORY CONTROL SAMPLE: 3759528

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lithium	mg/L	1	1.0	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3759529 3759530

Parameter	Units	60482476001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lithium	mg/L	0.053	1	1	1.1	1.1	102	102	75-125	0	20	

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QUALITY CONTROL DATA

Project: TEC BASA-Revised Report
Pace Project No.: 60482480

QC Batch: 950698
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60482480002

METHOD BLANK: 3767620 Matrix: Water
Associated Lab Samples: 60482480002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lithium	mg/L	<0.010	0.010	10/09/25 15:14	

LABORATORY CONTROL SAMPLE: 3767621

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lithium	mg/L	1	0.97	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3767622 3767623

Parameter	Units	60482480002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lithium	mg/L	0.051	1	1	1.0	1.0	96	97	75-125	1	20	

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QUALITY CONTROL DATA

Project: TEC BASA-Revised Report
Pace Project No.: 60482480

QC Batch: 948546 | Analysis Method: SM 2540C
QC Batch Method: SM 2540C | Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60482480001, 60482480003, 60482480004, 60482480005, 60482480006, 60482480008

METHOD BLANK: 3759546 Matrix: Water
Associated Lab Samples: 60482480001, 60482480003, 60482480004, 60482480005, 60482480006, 60482480008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<5.0	5.0	09/18/25 15:50	

LABORATORY CONTROL SAMPLE: 3759547

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	1000	1020	102	80-120	

SAMPLE DUPLICATE: 3759548

Parameter	Units	60482368001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1010	1020	1	10	

SAMPLE DUPLICATE: 3759549

Parameter	Units	60482405001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	3250	3290	1	10	

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QUALITY CONTROL DATA

Project: TEC BASA-Revised Report
Pace Project No.: 60482480

QC Batch: 948919
QC Batch Method: SM 2540C
Analysis Method: SM 2540C
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60482480002, 60482480007

METHOD BLANK: 3761132 Matrix: Water
Associated Lab Samples: 60482480002, 60482480007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<5.0	5.0	09/22/25 14:00	

LABORATORY CONTROL SAMPLE: 3761133

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	1000	1020	102	80-120	

SAMPLE DUPLICATE: 3761134

Parameter	Units	60482612002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	3830	3730	3	10	

SAMPLE DUPLICATE: 3761135

Parameter	Units	60482514001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	2740	1660	49	10	D6

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QUALITY CONTROL DATA

Project: TEC BASA-Revised Report
Pace Project No.: 60482480

QC Batch: 948419
QC Batch Method: SM 4500-H+B
Analysis Method: SM 4500-H+B
Analysis Description: 4500H+B pH
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60482480001, 60482480002, 60482480003, 60482480004, 60482480005, 60482480006, 60482480007, 60482480008

SAMPLE DUPLICATE: 3759071

Parameter	Units	60482447002 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.6	7.6	1	5	H3

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QUALITY CONTROL DATA

Project: TEC BASA-Revised Report
Pace Project No.: 60482480

QC Batch: 948331
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: 60482480001, 60482480003, 60482480004, 60482480005, 60482480006, 60482480008

METHOD BLANK: 3758687 Matrix: Water
Associated Lab Samples: 60482480001, 60482480003, 60482480004, 60482480005, 60482480006, 60482480008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrate as N	mg/L	<0.10	0.10	09/16/25 20:01	
Nitrite as N	mg/L	<0.10	0.10	09/16/25 20:01	

LABORATORY CONTROL SAMPLE: 3758688

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrate as N	mg/L	2	1.9	96	90-110	
Nitrite as N	mg/L	2	2.0	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3758689 3758690

Parameter	Units	60481584001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrate as N	mg/L	0.41	2	2	2.4	2.5	100	103	80-120	2	15	H3
Nitrite as N	mg/L	ND	2	2	2.1	2.2	101	104	80-120	4	15	CL,H3

MATRIX SPIKE SAMPLE: 3758691

Parameter	Units	60482480001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrate as N	mg/L	0.27	2	2.2	98	80-120	
Nitrite as N	mg/L	<0.10	2	1.4	69	80-120	CL,M1

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QUALITY CONTROL DATA

Project: TEC BASA-Revised Report
Pace Project No.: 60482480

QC Batch: 948398
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: 60482480002, 60482480007

METHOD BLANK: 3758953 Matrix: Water
Associated Lab Samples: 60482480002, 60482480007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrate as N	mg/L	<0.10	0.10	09/17/25 13:46	
Nitrite as N	mg/L	<0.10	0.10	09/17/25 13:46	

LABORATORY CONTROL SAMPLE: 3758954

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrate as N	mg/L	2	2.0	99	90-110	
Nitrite as N	mg/L	2	2.0	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3758955 3758956

Parameter	Units	60482480007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrate as N	mg/L	1.1	2	2	3.1	3.1	99	100	80-120	1	15	
Nitrite as N	mg/L	<0.10	2	2	1.3	1.3	63	64	80-120	2	15	M1

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QUALITY CONTROL DATA

Project: TEC BASA-Revised Report
Pace Project No.: 60482480

QC Batch: 949729
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: 60482480001, 60482480002, 60482480003, 60482480004, 60482480005, 60482480006, 60482480007, 60482480008

METHOD BLANK: 3764042 Matrix: Water
Associated Lab Samples: 60482480001, 60482480002, 60482480003, 60482480004, 60482480005, 60482480006, 60482480007, 60482480008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<1.0	1.0	09/27/25 15:01	
Fluoride	mg/L	<0.20	0.20	09/27/25 15:01	
Sulfate	mg/L	<1.0	1.0	09/27/25 15:01	

LABORATORY CONTROL SAMPLE: 3764043

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.6	92	90-110	
Fluoride	mg/L	2.5	2.6	103	90-110	
Sulfate	mg/L	5	4.9	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3764044 3764045

Parameter	Units	60482367002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	7260	5000	5000	9940	11600	53	87	80-120	16	15	M1,R1
Fluoride	mg/L	<124	2500	2500	1790	2550	72	102	80-120	35	15	M1,R1
Sulfate	mg/L	1220	5000	5000	4410	6030	64	96	80-120	31	15	M1,R1

MATRIX SPIKE SAMPLE: 3764046

Parameter	Units	60482480002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	197	100	293	95	80-120	
Fluoride	mg/L	<0.20	2.5	2.5	98	80-120	
Sulfate	mg/L	614	500	1150	108	80-120	

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QUALITY CONTROL DATA

Project: TEC BASA-Revised Report
Pace Project No.: 60482480

QC Batch: 949974
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: 60482480002, 60482480003, 60482480004, 60482480005, 60482480006, 60482480007, 60482480008

METHOD BLANK: 3765003 Matrix: Water
Associated Lab Samples: 60482480002, 60482480003, 60482480004, 60482480005, 60482480006, 60482480007, 60482480008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Fluoride	mg/L	<0.20	0.20	09/30/25 23:03	
Sulfate	mg/L	<1.0	1.0	09/30/25 23:03	

LABORATORY CONTROL SAMPLE: 3765004

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Fluoride	mg/L	2.5	2.4	97	90-110	
Sulfate	mg/L	5	5.0	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3765005 3765006

Parameter	Units	60482403001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Fluoride	mg/L	68.5	250	250	321	320	113	112	80-120	0	15	
Sulfate	mg/L	7560	500	500	8610	8950	47	116	80-120	4	15	E

MATRIX SPIKE SAMPLE: 3765007

Parameter	Units	60483175007 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Fluoride	mg/L	ND	2500	2790	111	80-120	
Sulfate	mg/L	ND	5000	5600	111	80-120	

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QUALIFIERS

Project: TEC BASA-Revised Report
Pace Project No.: 60482480

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

CL	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.
D6	The precision between the sample and sample duplicate exceeded laboratory control limits.
E	Analyte concentration exceeded the calibration range. The reported result is estimated.
H1	Analysis conducted outside the EPA method holding time.
H3	Sample was received or analysis requested beyond the recognized method holding time.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
R1	RPD value was outside control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: TEC BASA-Revised Report
Pace Project No.: 60482480

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60482480001	**MW-7-091525**	EPA 200.7	948432	EPA 200.7	948468
60482480002	**MW-8-091625**	EPA 200.7	948432	EPA 200.7	948468
60482480003	**MW-10-091525**	EPA 200.7	948432	EPA 200.7	948468
60482480004	**MW-11A-091525**	EPA 200.7	948812	EPA 200.7	948836
60482480005	**MW-12-091525**	EPA 200.7	948432	EPA 200.7	948468
60482480006	**MW-13-091525**	EPA 200.7	948432	EPA 200.7	948468
60482480007	**MW-14-091625**	EPA 200.7	948432	EPA 200.7	948468
60482480008	**TEC-BASA-DUP-091525**	EPA 200.7	948432	EPA 200.7	948468
60482480001	**MW-7-091525**	EPA 3010	948541	EPA 6010	948677
60482480002	**MW-8-091625**	EPA 3010	950698	EPA 6010	950720
60482480003	**MW-10-091525**	EPA 3010	948541	EPA 6010	948677
60482480004	**MW-11A-091525**	EPA 3010	948541	EPA 6010	948677
60482480005	**MW-12-091525**	EPA 3010	948541	EPA 6010	948677
60482480006	**MW-13-091525**	EPA 3010	948541	EPA 6010	948677
60482480007	**MW-14-091625**	EPA 3010	948541	EPA 6010	948677
60482480008	**TEC-BASA-DUP-091525**	EPA 3010	948541	EPA 6010	948677
60482480001	**MW-7-091525**	EPA 200.8	948427	EPA 200.8	948469
60482480002	**MW-8-091625**	EPA 200.8	948427	EPA 200.8	948469
60482480002	**MW-8-091625**	EPA 200.8	950659	EPA 200.8	950718
60482480003	**MW-10-091525**	EPA 200.8	948427	EPA 200.8	948469
60482480004	**MW-11A-091525**	EPA 200.8	948813	EPA 200.8	948837
60482480005	**MW-12-091525**	EPA 200.8	948427	EPA 200.8	948469
60482480006	**MW-13-091525**	EPA 200.8	948427	EPA 200.8	948469
60482480007	**MW-14-091625**	EPA 200.8	948427	EPA 200.8	948469
60482480008	**TEC-BASA-DUP-091525**	EPA 200.8	948427	EPA 200.8	948469
60482480001	**MW-7-091525**	SM 2540C	948546		
60482480002	**MW-8-091625**	SM 2540C	948919		
60482480003	**MW-10-091525**	SM 2540C	948546		
60482480004	**MW-11A-091525**	SM 2540C	948546		
60482480005	**MW-12-091525**	SM 2540C	948546		
60482480006	**MW-13-091525**	SM 2540C	948546		
60482480007	**MW-14-091625**	SM 2540C	948919		
60482480008	**TEC-BASA-DUP-091525**	SM 2540C	948546		
60482480001	**MW-7-091525**	SM 4500-H+B	948419		
60482480002	**MW-8-091625**	SM 4500-H+B	948419		
60482480003	**MW-10-091525**	SM 4500-H+B	948419		
60482480004	**MW-11A-091525**	SM 4500-H+B	948419		
60482480005	**MW-12-091525**	SM 4500-H+B	948419		
60482480006	**MW-13-091525**	SM 4500-H+B	948419		
60482480007	**MW-14-091625**	SM 4500-H+B	948419		
60482480008	**TEC-BASA-DUP-091525**	SM 4500-H+B	948419		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: TEC BASA-Revised Report
Pace Project No.: 60482480

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60482480001	**MW-7-091525**	EPA 300.0	948331		
60482480002	**MW-8-091625**	EPA 300.0	948398		
60482480003	**MW-10-091525**	EPA 300.0	948331		
60482480004	**MW-11A-091525**	EPA 300.0	948331		
60482480005	**MW-12-091525**	EPA 300.0	948331		
60482480006	**MW-13-091525**	EPA 300.0	948331		
60482480007	**MW-14-091625**	EPA 300.0	948398		
60482480008	**TEC-BASA-DUP-091525**	EPA 300.0	948331		
60482480001	**MW-7-091525**	EPA 300.0	949729		
60482480002	**MW-8-091625**	EPA 300.0	949729		
60482480002	**MW-8-091625**	EPA 300.0	949974		
60482480003	**MW-10-091525**	EPA 300.0	949729		
60482480003	**MW-10-091525**	EPA 300.0	949974		
60482480004	**MW-11A-091525**	EPA 300.0	949729		
60482480004	**MW-11A-091525**	EPA 300.0	949974		
60482480005	**MW-12-091525**	EPA 300.0	949729		
60482480005	**MW-12-091525**	EPA 300.0	949974		
60482480006	**MW-13-091525**	EPA 300.0	949729		
60482480006	**MW-13-091525**	EPA 300.0	949974		
60482480007	**MW-14-091625**	EPA 300.0	949729		
60482480007	**MW-14-091625**	EPA 300.0	949974		
60482480008	**TEC-BASA-DUP-091525**	EPA 300.0	949729		
60482480008	**TEC-BASA-DUP-091525**	EPA 300.0	949974		

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WO# : 60482480

60482480

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

Client Name: Evergy Kansas Central, Inc.

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** 4.5 **Corr. Factor** 0 **Corrected** 4.5

Date and initials of person examining contents: SMB 9/16/25

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	Sample MWHA-091525 is not labeled and everything else has the wrong labels.
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® 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

60482480

Scan QR Code for instructions

Company Name:	Evergy Kansas Central, Inc.	Contact/Report To:	Jake Humphrey
Street Address:	818 S Kansas Avenue Topeka, KS 66612	Phone #:	(913)634-0605
		E-Mail:	jake.humphrey@evergy.com
		Cc E-Mail:	skaney@haleyaldrich.com
Customer Project #:			
Project Name:	TEC BASA	Invoice To:	Tecumseh Center
		Invoice E-Mail:	evergyap@onlinecapturecenter.com
Site Collection Info/Facility ID (as applicable):	Tecumseh Energy Center	Purchase Order # (if applicable):	WSTR-2000094802
		Quote #:	
Time Zone Collected: [ ] AK [ ] PT [ ] MT [X] CT [ ] ET		County / State origin of sample(s):	Kansas
Data Deliverables: [ ] Level II [ ] Level III [ ] Level IV [ ] EQUIS [ ] Other		Regulatory Program (DW, RCRA, etc.) as applicable:	Reportable [ ] Yes [X] 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 [X] 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	200.7/200.8/245.1/6010	2540C Total Dissolved Solids	300.0 Cl,F,SO4,pH	Sample Comment
							Specify Container Size **			3	2	2	
							Identify Container Preservative Type***			2	1	1	
							Analysis Requested						
MW-7-091525	WT	Grab	-	-	9/15/2025	1210	3	-	-	X	X	X	
MW-8-091625	WT	Grab	-	-	9/16/2025	1020	3	-	-	X	X	X	
MW-9-091525	NS	NS	-	-	NS	NS	NS	-	-	-	-	-	NS - No Sample; Insufficient Groundwater
MW-10-091525	WT	Grab	-	-	9/15/2025	1135	3	-	-	X	X	X	
MW-11A-091525	GW	Grab	-	-	9/15/2025	1255	3	-	-	X	X	X	
MW-12-091525	GW	Grab	-	-	9/15/2025	1330	3	-	-	X	X	X	
MW-13-091525	GW	Grab	-	-	9/15/2025	1545	3	-	-	X	X	X	
MW-14-091625	GW	Grab	-	-	9/16/2025	930	3	-	-	X	X	X	
TEC-BASA-DUP-091525	WT	Grab	-	-	9/15/2025	1210	3	-	-	X	X	X	

**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: Alice Spiller

AcctNum / Client ID:

Table #:

Profile / Template: 16502

Prelog / Bottle Ord. ID: EZ 3295195

Preservation non-conformance identified for sample.

Additional Instructions from Pace®:
Metals: As, Ba, B, Ca, Cr, Co, Pb, Li, Mo, Se

Collected By:
(Printed Name): Jason R. Franks
Signature: Jason R. Franks

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)	On Ice:
				4.5	

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
Jason R. Franks / SCS	09/16/2025 / 14:00	Carmen June Pace	9/16 14:36	
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 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/

Client: Evergy Kansas Central, Inc. Profile/EZ # EZ 3295/95

Site: TEC BASA 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		1									
2	WT																			1	1		1									
3	WT																															
4	WT																			1	1		1									
5	WT																			1	2											
6	WT																				3		1									
7	WT																			1	1		1									
8	WT																				3		1									
9	WT																				3		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: 60482480

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

October 03, 2025

Jake Humphrey
Evergy, Inc.
818 S Kansas Avenue
Topeka, KS 66612

RE: Project: TEC BASA Additional
Pace Project No.: 60482481

Dear Jake Humphrey:

Enclosed are the analytical results for sample(s) received by the laboratory on September 16, 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,

Heather M. Wilson

Heather Wilson for
Alice Spiller
alice.spiller@pacelabs.com
(913)599-5665
PM Lab Management

Enclosures

cc: Jordan Eichman, Haley & Aldrich, Inc.
Samantha Kaney, Haley & Aldrich
Melanie Satanek, Haley & Aldrich, Inc.
Adriana Sosa, Haley & Aldrich, Inc.
Nick Williams, Haley Aldrich

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CERTIFICATIONS

Project: TEC BASA Additional
Pace Project No.: 60482481

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

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SAMPLE SUMMARY

Project: TEC BASA Additional
Pace Project No.: 60482481

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60482481001	**MW-7-091525**	Water	09/15/25 12:10	09/16/25 14:36
60482481002	**MW-8-091625**	Water	09/16/25 10:20	09/16/25 14:36
60482481003	**MW-10-091525**	Water	09/15/25 11:35	09/16/25 14:36
60482481004	**MW-11A-091525**	Water	09/15/25 12:55	09/16/25 14:36
60482481005	**MW-12-091525**	Water	09/15/25 13:30	09/16/25 14:36
60482481006	**MW-13-091525**	Water	09/15/25 15:45	09/16/25 14:36
60482481007	**MW-14-091625**	Water	09/16/25 09:30	09/16/25 14:36
60482481008	**TEC-BASA-DUP-091525**	Water	09/15/25 12:10	09/16/25 14:36

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: TEC BASA Additional
Pace Project No.: 60482481

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60482481001	**MW-7-091525**	EPA 200.7	ARMN	4	PASI-K
		EPA 200.7	ARMN	1	PASI-K
		EPA 200.8	CJM	3	PASI-K
		EPA 200.8	CJM	5	PASI-K
		SM 2320B	EMB	3	PASI-K
		SM 3500-Fe B#4	IED	1	PASI-K
		SM 4500-S-2 D	IED	1	PASI-K
		EPA 300.0	GTS	2	PASI-K
		EPA 365.4	AKK	1	PASI-K
		SM 5310C	EMB	1	PASI-K
		SM 5310C	EMB	1	PASI-K
60482481002	**MW-8-091625**	EPA 200.7	ARMN	4	PASI-K
		EPA 200.7	ARMN	1	PASI-K
		EPA 200.8	CJM	3	PASI-K
		EPA 200.8	CJM	5	PASI-K
		SM 2320B	EMB	3	PASI-K
		SM 3500-Fe B#4	IED	1	PASI-K
		SM 4500-S-2 D	IED	1	PASI-K
		EPA 300.0	GTS	2	PASI-K
		EPA 365.4	AKK	1	PASI-K
		SM 5310C	EMB	1	PASI-K
		SM 5310C	EMB	1	PASI-K
60482481003	**MW-10-091525**	EPA 200.7	ARMN	4	PASI-K
		EPA 200.7	ARMN	1	PASI-K
		EPA 200.8	CJM	3	PASI-K
		EPA 200.8	CJM	5	PASI-K
		SM 2320B	EMB	3	PASI-K
		SM 3500-Fe B#4	IED	1	PASI-K
		SM 4500-S-2 D	IED	1	PASI-K
		EPA 300.0	GTS	2	PASI-K
		EPA 365.4	AKK	1	PASI-K
		SM 5310C	EMB	1	PASI-K
		SM 5310C	EMB	1	PASI-K
60482481004	**MW-11A-091525**	EPA 200.7	ARMN	4	PASI-K
		EPA 200.7	ARMN	1	PASI-K
		EPA 200.8	CJM	3	PASI-K
		EPA 200.8	CJM	5	PASI-K

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: TEC BASA Additional
Pace Project No.: 60482481

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 2320B	EMB	3	PASI-K
		SM 3500-Fe B#4	IED	1	PASI-K
		SM 4500-S-2 D	IED	1	PASI-K
		EPA 300.0	GTS	2	PASI-K
		EPA 365.4	AKK	1	PASI-K
		SM 5310C	EMB	1	PASI-K
		SM 5310C	EMB	1	PASI-K
60482481005	**MW-12-091525**	EPA 200.7	ARMN	4	PASI-K
		EPA 200.7	ARMN	1	PASI-K
		EPA 200.8	CJM	3	PASI-K
		EPA 200.8	CJM	5	PASI-K
		SM 2320B	EMB	3	PASI-K
		SM 3500-Fe B#4	IED	1	PASI-K
		SM 4500-S-2 D	IED	1	PASI-K
		EPA 300.0	GTS	2	PASI-K
		EPA 365.4	AKK	1	PASI-K
		SM 5310C	EMB	1	PASI-K
		SM 5310C	EMB	1	PASI-K
60482481006	**MW-13-091525**	EPA 200.7	ARMN	4	PASI-K
		EPA 200.7	ARMN	1	PASI-K
		EPA 200.8	CJM	3	PASI-K
		EPA 200.8	CJM	5	PASI-K
		SM 2320B	EMB	3	PASI-K
		SM 3500-Fe B#4	IED	1	PASI-K
		SM 4500-S-2 D	IED	1	PASI-K
		EPA 300.0	GTS	2	PASI-K
		EPA 365.4	AKK	1	PASI-K
		SM 5310C	EMB	1	PASI-K
		SM 5310C	EMB	1	PASI-K
60482481007	**MW-14-091625**	EPA 200.7	ARMN	4	PASI-K
		EPA 200.7	ARMN	1	PASI-K
		EPA 200.8	CJM	3	PASI-K
		EPA 200.8	CJM	5	PASI-K
		SM 2320B	EMB	3	PASI-K
		SM 3500-Fe B#4	IED	1	PASI-K
		SM 4500-S-2 D	IED	1	PASI-K
		EPA 300.0	GTS	2	PASI-K

REPORT OF LABORATORY ANALYSIS

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(913)599-5665

SAMPLE ANALYTE COUNT

Project: TEC BASA Additional
Pace Project No.: 60482481

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 365.4	AKK	1	PASI-K
		SM 5310C	EMB	1	PASI-K
		SM 5310C	EMB	1	PASI-K
60482481008	**TEC-BASA-DUP-091525**	EPA 200.7	ARMN	4	PASI-K
		EPA 200.7	ARMN	1	PASI-K
		EPA 200.8	CJM	3	PASI-K
		EPA 200.8	CJM	5	PASI-K
		SM 2320B	EMB	3	PASI-K
		SM 3500-Fe B#4	IED	1	PASI-K
		SM 4500-S-2 D	IED	1	PASI-K
		EPA 300.0	GTS	2	PASI-K
		EPA 365.4	AKK	1	PASI-K
		SM 5310C	EMB	1	PASI-K
		SM 5310C	EMB	1	PASI-K

PASI-K = Pace Analytical Services - Kansas City

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Lenexa, KS 66219
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PROJECT NARRATIVE

Project: TEC BASA Additional
Pace Project No.: 60482481

Method: **EPA 200.7**
Description: 200.7 Metals, Total
Client: Evergy_Haley & Aldrich
Date: October 03, 2025

General Information:
8 samples were analyzed for EPA 200.7 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 200.7 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 948812

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60482481007,60482560001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 3760688)
  - Sodium
- MS (Lab ID: 3760695)
  - Sodium
- MSD (Lab ID: 3760689)
  - Sodium

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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(913)599-5665

PROJECT NARRATIVE

Project: TEC BASA Additional
Pace Project No.: 60482481

Method: **EPA 200.7**
Description: 200.7 Metals, Dissolved
Client: Evergy_Haley & Aldrich
Date: October 03, 2025

General Information:
8 samples were analyzed for EPA 200.7 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 200.7 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA Additional
Pace Project No.: 60482481

Method: **EPA 200.8**
Description: 200.8 MET ICPMS
Client: Evergy_Haley & Aldrich
Date: October 03, 2025

General Information:
8 samples were analyzed for EPA 200.8 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 200.8 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 948813

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60482481001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MSD (Lab ID: 3760694)
  - Manganese

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: TEC BASA Additional
Pace Project No.: 60482481

Method: **EPA 200.8**
Description: 200.8 MET ICPMS, Dissolved
Client: Evergy_Haley & Aldrich
Date: October 03, 2025

General Information:
8 samples were analyzed for EPA 200.8 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 200.8 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

QC Batch: 948539

B: Analyte was detected in the associated method blank.

- BLANK for HBN 948539 [MPRP/888 (Lab ID: 3759519)
  - Iron, Dissolved

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 948539

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60482476002

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 3759521)
  - Manganese, Dissolved
- MSD (Lab ID: 3759522)
  - Manganese, Dissolved

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA Additional
Pace Project No.: 60482481

Method: **SM 2320B**
Description: 2320B Alkalinity
Client: Evergy_Haley & Aldrich
Date: October 03, 2025

General Information:
8 samples were analyzed for SM 2320B by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA Additional
Pace Project No.: 60482481

Method: **SM 3500-Fe B#4**
Description: Iron, Ferrous
Client: Evergy_Haley & Aldrich
Date: October 03, 2025

General Information:
8 samples were analyzed for SM 3500-Fe B#4 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

H6: Analysis initiated outside of the 15 minute EPA required holding time.
- MW-10-091525 (Lab ID: 60482481003)
- MW-11A-091525 (Lab ID: 60482481004)
- MW-12-091525 (Lab ID: 60482481005)
- MW-13-091525 (Lab ID: 60482481006)
- MW-14-091625 (Lab ID: 60482481007)
- MW-7-091525 (Lab ID: 60482481001)
- MW-8-091625 (Lab ID: 60482481002)
- TEC-BASA-DUP-091525 (Lab ID: 60482481008)

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA Additional
Pace Project No.: 60482481

Method: **SM 4500-S-2 D**
Description: 4500S2D Sulfide, Total
Client: Evergy_Haley & Aldrich
Date: October 03, 2025

General Information:
8 samples were analyzed for SM 4500-S-2 D by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA Additional
Pace Project No.: 60482481

Method: **EPA 300.0**
Description: 300.0 IC Anions
Client: Evergy_Haley & Aldrich
Date: October 03, 2025

General Information:
8 samples were analyzed for EPA 300.0 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 948331

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60481584001,60482480001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 3758691)
  - Nitrite as N

QC Batch: 948398

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60482480007

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 3758955)
  - Nitrite as N
- MSD (Lab ID: 3758956)
  - Nitrite as N

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA Additional
Pace Project No.: 60482481

Method: **EPA 365.4**
Description: 365.4 Total Phosphorus
Client: Evergy_Haley & Aldrich
Date: October 03, 2025

General Information:
8 samples were analyzed for EPA 365.4 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 365.4 with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

QC Batch: 949523

D6: The precision between the sample and sample duplicate exceeded laboratory control limits.

- DUP (Lab ID: 3763168)
  - Phosphorus

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA Additional
Pace Project No.: 60482481

Method: **SM 5310C**
Description: 5310C TOC
Client: Evergy_Haley & Aldrich
Date: October 03, 2025

General Information:
8 samples were analyzed for SM 5310C by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA Additional
Pace Project No.: 60482481

Method: **SM 5310C**
Description: 5310C Dissolved Organic Carbon
Client: Evergy_Haley & Aldrich
Date: October 03, 2025

General Information:
8 samples were analyzed for SM 5310C by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: TEC BASA Additional
Pace Project No.: 60482481

Sample: MW-7-091525 **Lab ID: 60482481001** Collected: 09/15/25 12:10 Received: 09/16/25 14:36 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								
Magnesium, Total Recoverable	**23.1**	mg/L	0.050	0.021	1	09/19/25 14:00	09/30/25 14:04	7439-95-4	
Potassium, Total Recoverable	**3.3**	mg/L	0.50	0.045	1	09/19/25 14:00	09/30/25 14:04	7440-09-7	
Sodium, Total Recoverable	**181**	mg/L	0.50	0.032	1	09/19/25 14:00	09/30/25 14:04	7440-23-5	
Total Hardness by 2340B, Total Recoverable	**428**	mg/L	0.50	0.20	1	09/19/25 14:00	09/30/25 14:04		
200.7 Metals, Dissolved	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City								
Magnesium, Dissolved	**24.3**	mg/L	0.050	0.021	1	09/18/25 09:00	10/02/25 11:26	7439-95-4	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Aluminum, Total Recoverable	**0.041J**	mg/L	0.050	0.0082	1	09/19/25 14:00	09/23/25 12:17	7429-90-5	
Iron, Total Recoverable	**0.062**	mg/L	0.050	0.0044	1	09/19/25 14:00	09/23/25 12:17	7439-89-6	
Manganese, Total Recoverable	**0.34**	mg/L	0.0010	0.00052	1	09/19/25 14:00	09/23/25 12:17	7439-96-5	M1
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Aluminum, Dissolved	**<0.0082**	mg/L	0.050	0.0082	1	09/18/25 09:00	09/23/25 13:32	7429-90-5	
Arsenic, Dissolved	**0.0011**	mg/L	0.0010	0.00013	1	09/18/25 09:00	09/23/25 13:32	7440-38-2	
Cobalt, Dissolved	**0.00077J**	mg/L	0.0010	0.00010	1	09/18/25 09:00	09/23/25 13:32	7440-48-4	
Iron, Dissolved	**0.019J**	mg/L	0.050	0.0044	1	09/18/25 09:00	09/23/25 13:32	7439-89-6	B
Manganese, Dissolved	**0.34**	mg/L	0.0010	0.00052	1	09/18/25 09:00	09/23/25 13:32	7439-96-5	
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Kansas City								
Alkalinity,Bicarbonate (CaCO3)	**428**	mg/L	20.0	10.5	1		09/19/25 15:29		
Alkalinity,Carbonate (CaCO3)	**<10.5**	mg/L	20.0	10.5	1		09/19/25 15:29		
Alkalinity, Total as CaCO3	**428**	mg/L	20.0	10.5	1		09/19/25 15:29		
Iron, Ferrous	Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City								
Iron, Ferrous	**0.062J**	mg/L	0.20	0.041	1		09/17/25 13:14	15438-31-0	H6
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		09/17/25 00:00	18496-25-8	
300.0 IC Anions	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City								
Nitrate as N	**<0.066**	mg/L	0.10	0.066	1		09/17/25 03:35	14797-55-8	
Nitrite as N	**<0.070**	mg/L	0.10	0.070	1		09/17/25 03:35	14797-65-0	CL

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TEC BASA Additional
Pace Project No.: 60482481

Sample: MW-7-091525 **Lab ID: 60482481001** Collected: 09/15/25 12:10 Received: 09/16/25 14:36 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
365.4 Total Phosphorus	Analytical Method: EPA 365.4 Preparation Method: EPA 365.4 Pace Analytical Services - Kansas City								
Phosphorus	**0.41**	mg/L	0.10	0.071	1	09/26/25 11:31	09/26/25 19:46	7723-14-0	D6
5310C TOC	Analytical Method: SM 5310C Pace Analytical Services - Kansas City								
Total Organic Carbon	**<0.54**	mg/L	1.0	0.54	1		09/24/25 23:07	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C Pace Analytical Services - Kansas City								
Dissolved Organic Carbon	**0.56J**	mg/L	1.0	0.54	1		10/01/25 17:16		

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ANALYTICAL RESULTS

Project: TEC BASA Additional
Pace Project No.: 60482481

Sample: MW-8-091625 **Lab ID: 60482481002** Collected: 09/16/25 10:20 Received: 09/16/25 14:36 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								
Magnesium, Total Recoverable	**17.6**	mg/L	0.050	0.021	1	09/19/25 14:00	09/30/25 14:06	7439-95-4	
Potassium, Total Recoverable	**12.4**	mg/L	0.50	0.045	1	09/19/25 14:00	09/30/25 14:06	7440-09-7	
Sodium, Total Recoverable	**163**	mg/L	0.50	0.032	1	09/19/25 14:00	09/30/25 14:06	7440-23-5	
Total Hardness by 2340B, Total Recoverable	**523**	mg/L	0.50	0.20	1	09/19/25 14:00	09/30/25 14:06		
200.7 Metals, Dissolved	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City								
Magnesium, Dissolved	**15.3**	mg/L	0.050	0.021	1	09/18/25 09:00	10/02/25 11:28	7439-95-4	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Aluminum, Total Recoverable	**14.2**	mg/L	0.050	0.0082	1	09/19/25 14:00	09/23/25 12:37	7429-90-5	
Iron, Total Recoverable	**19.8**	mg/L	0.050	0.0044	1	09/19/25 14:00	09/23/25 12:37	7439-89-6	
Manganese, Total Recoverable	**1.0**	mg/L	0.0010	0.00052	1	09/19/25 14:00	09/23/25 12:37	7439-96-5	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Aluminum, Dissolved	**0.040J**	mg/L	0.050	0.0082	1	09/18/25 09:00	09/23/25 13:35	7429-90-5	
Arsenic, Dissolved	**0.00095J**	mg/L	0.0010	0.00013	1	09/18/25 09:00	09/23/25 13:35	7440-38-2	
Cobalt, Dissolved	**0.00059J**	mg/L	0.0010	0.00010	1	09/18/25 09:00	09/23/25 13:35	7440-48-4	
Iron, Dissolved	**0.064**	mg/L	0.050	0.0044	1	09/18/25 09:00	09/23/25 13:35	7439-89-6	
Manganese, Dissolved	**0.77**	mg/L	0.0010	0.00052	1	09/18/25 09:00	09/23/25 13:35	7439-96-5	
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Kansas City								
Alkalinity,Bicarbonate (CaCO3)	**62.5**	mg/L	20.0	10.5	1		09/22/25 13:53		
Alkalinity,Carbonate (CaCO3)	**<10.5**	mg/L	20.0	10.5	1		09/22/25 13:53		
Alkalinity, Total as CaCO3	**62.5**	mg/L	20.0	10.5	1		09/22/25 13:53		
Iron, Ferrous	Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City								
Iron, Ferrous	**3.3**	mg/L	0.20	0.041	1		09/17/25 13:14	15438-31-0	H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D Pace Analytical Services - Kansas City								
Sulfide, Total	**0.59**	mg/L	0.050	0.016	1		09/17/25 00:00	18496-25-8	
300.0 IC Anions	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City								
Nitrate as N	**0.077J**	mg/L	0.10	0.066	1		09/17/25 17:41	14797-55-8	
Nitrite as N	**<0.070**	mg/L	0.10	0.070	1		09/17/25 17:41	14797-65-0	

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ANALYTICAL RESULTS

Project: TEC BASA Additional
Pace Project No.: 60482481

Sample: MW-8-091625 **Lab ID: 60482481002** Collected: 09/16/25 10:20 Received: 09/16/25 14:36 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
365.4 Total Phosphorus	Analytical Method: EPA 365.4 Preparation Method: EPA 365.4 Pace Analytical Services - Kansas City								
Phosphorus	**1.0**	mg/L	0.10	0.071	1	09/26/25 11:31	09/26/25 19:51	7723-14-0	
5310C TOC	Analytical Method: SM 5310C Pace Analytical Services - Kansas City								
Total Organic Carbon	**<0.54**	mg/L	1.0	0.54	1		09/24/25 23:21	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C Pace Analytical Services - Kansas City								
Dissolved Organic Carbon	**2.5**	mg/L	2.0	1.1	2		10/01/25 18:13		

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ANALYTICAL RESULTS

Project: TEC BASA Additional
Pace Project No.: 60482481

Sample: MW-10-091525 **Lab ID: 60482481003** Collected: 09/15/25 11:35 Received: 09/16/25 14:36 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								
Magnesium, Total Recoverable	**31.9**	mg/L	0.050	0.021	1	09/19/25 14:00	09/30/25 14:08	7439-95-4	
Potassium, Total Recoverable	**3.7**	mg/L	0.50	0.045	1	09/19/25 14:00	09/30/25 14:08	7440-09-7	
Sodium, Total Recoverable	**264**	mg/L	0.50	0.032	1	09/19/25 14:00	09/30/25 14:08	7440-23-5	
Total Hardness by 2340B, Total Recoverable	**534**	mg/L	0.50	0.20	1	09/19/25 14:00	09/30/25 14:08		
200.7 Metals, Dissolved	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City								
Magnesium, Dissolved	**30.7**	mg/L	0.050	0.021	1	09/18/25 09:00	10/02/25 11:29	7439-95-4	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Aluminum, Total Recoverable	**0.20**	mg/L	0.050	0.0082	1	09/19/25 14:00	09/23/25 12:45	7429-90-5	
Iron, Total Recoverable	**1.2**	mg/L	0.050	0.0044	1	09/19/25 14:00	09/23/25 12:45	7439-89-6	
Manganese, Total Recoverable	**5.3**	mg/L	0.0010	0.00052	1	09/19/25 14:00	09/23/25 12:45	7439-96-5	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Aluminum, Dissolved	**<0.0082**	mg/L	0.050	0.0082	1	09/18/25 09:00	09/23/25 13:39	7429-90-5	
Arsenic, Dissolved	**0.0038**	mg/L	0.0010	0.00013	1	09/18/25 09:00	09/23/25 13:39	7440-38-2	D9
Cobalt, Dissolved	**0.0071**	mg/L	0.0010	0.00010	1	09/18/25 09:00	09/23/25 13:39	7440-48-4	D9
Iron, Dissolved	**0.48**	mg/L	0.050	0.0044	1	09/18/25 09:00	09/23/25 13:39	7439-89-6	
Manganese, Dissolved	**4.3**	mg/L	0.0010	0.00052	1	09/18/25 09:00	09/23/25 13:39	7439-96-5	
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Kansas City								
Alkalinity,Bicarbonate (CaCO3)	**533**	mg/L	20.0	10.5	1		09/19/25 15:37		
Alkalinity,Carbonate (CaCO3)	**<10.5**	mg/L	20.0	10.5	1		09/19/25 15:37		
Alkalinity, Total as CaCO3	**533**	mg/L	20.0	10.5	1		09/19/25 15:37		
Iron, Ferrous	Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City								
Iron, Ferrous	**1.1**	mg/L	0.20	0.041	1		09/17/25 13:14	15438-31-0	H6
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		09/17/25 00:00	18496-25-8	
300.0 IC Anions	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City								
Nitrate as N	**0.13**	mg/L	0.10	0.066	1		09/17/25 01:16	14797-55-8	
Nitrite as N	**<0.070**	mg/L	0.10	0.070	1		09/17/25 01:16	14797-65-0	CL

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ANALYTICAL RESULTS

Project: TEC BASA Additional
Pace Project No.: 60482481

Sample: MW-10-091525 **Lab ID: 60482481003** Collected: 09/15/25 11:35 Received: 09/16/25 14:36 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
365.4 Total Phosphorus	Analytical Method: EPA 365.4 Preparation Method: EPA 365.4 Pace Analytical Services - Kansas City								
Phosphorus	**0.18**	mg/L	0.10	0.071	1	09/26/25 11:31	09/26/25 19:53	7723-14-0	
5310C TOC	Analytical Method: SM 5310C Pace Analytical Services - Kansas City								
Total Organic Carbon	**1.3**	mg/L	1.0	0.54	1		09/24/25 23:35	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C Pace Analytical Services - Kansas City								
Dissolved Organic Carbon	**3.0**	mg/L	2.0	1.1	2		10/01/25 18:27		

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ANALYTICAL RESULTS

Project: TEC BASA Additional
Pace Project No.: 60482481

Sample: MW-11A-091525 **Lab ID: 60482481004** Collected: 09/15/25 12:55 Received: 09/16/25 14:36 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								
Magnesium, Total Recoverable	**43.9**	mg/L	0.050	0.021	1	09/19/25 14:00	09/30/25 14:15	7439-95-4	
Potassium, Total Recoverable	**6.1**	mg/L	0.50	0.045	1	09/19/25 14:00	09/30/25 14:15	7440-09-7	
Sodium, Total Recoverable	**293**	mg/L	0.50	0.032	1	09/19/25 14:00	09/30/25 14:15	7440-23-5	
Total Hardness by 2340B, Total Recoverable	**804**	mg/L	0.50	0.20	1	09/19/25 14:00	09/30/25 14:15		
200.7 Metals, Dissolved	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City								
Magnesium, Dissolved	**42.8**	mg/L	0.050	0.021	1	09/18/25 09:00	10/02/25 11:37	7439-95-4	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Aluminum, Total Recoverable	**2.6**	mg/L	0.050	0.0082	1	09/19/25 14:00	09/23/25 12:48	7429-90-5	
Iron, Total Recoverable	**3.8**	mg/L	0.050	0.0044	1	09/19/25 14:00	09/23/25 12:48	7439-89-6	
Manganese, Total Recoverable	**2.2**	mg/L	0.0010	0.00052	1	09/19/25 14:00	09/23/25 12:48	7439-96-5	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Aluminum, Dissolved	**1.4**	mg/L	0.050	0.0082	1	09/18/25 09:00	09/23/25 14:08	7429-90-5	
Arsenic, Dissolved	**0.0019**	mg/L	0.0010	0.00013	1	09/18/25 09:00	09/23/25 14:08	7440-38-2	
Cobalt, Dissolved	**0.012**	mg/L	0.0010	0.00010	1	09/18/25 09:00	09/23/25 14:08	7440-48-4	
Iron, Dissolved	**2.4**	mg/L	0.050	0.0044	1	09/18/25 09:00	09/23/25 14:08	7439-89-6	
Manganese, Dissolved	**2.0**	mg/L	0.0010	0.00052	1	09/18/25 09:00	09/23/25 14:08	7439-96-5	
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Kansas City								
Alkalinity,Bicarbonate (CaCO3)	**415**	mg/L	20.0	10.5	1		09/22/25 13:31		
Alkalinity,Carbonate (CaCO3)	**<10.5**	mg/L	20.0	10.5	1		09/22/25 13:31		
Alkalinity, Total as CaCO3	**415**	mg/L	20.0	10.5	1		09/22/25 13:31		
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		09/17/25 13:14	15438-31-0	H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D Pace Analytical Services - Kansas City								
Sulfide, Total	**0.11**	mg/L	0.050	0.016	1		09/17/25 00:00	18496-25-8	
300.0 IC Anions	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City								
Nitrate as N	**<0.066**	mg/L	0.10	0.066	1		09/17/25 04:58	14797-55-8	
Nitrite as N	**<0.070**	mg/L	0.10	0.070	1		09/17/25 04:58	14797-65-0	CL

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ANALYTICAL RESULTS

Project: TEC BASA Additional
Pace Project No.: 60482481

Sample: MW-11A-091525 **Lab ID: 60482481004** Collected: 09/15/25 12:55 Received: 09/16/25 14:36 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
365.4 Total Phosphorus	Analytical Method: EPA 365.4 Preparation Method: EPA 365.4 Pace Analytical Services - Kansas City								
Phosphorus	**0.22**	mg/L	0.10	0.071	1	09/26/25 11:31	09/26/25 19:55	7723-14-0	
5310C TOC	Analytical Method: SM 5310C Pace Analytical Services - Kansas City								
Total Organic Carbon	**0.62J**	mg/L	1.0	0.54	1		09/24/25 23:49	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C Pace Analytical Services - Kansas City								
Dissolved Organic Carbon	**0.62J**	mg/L	1.0	0.54	1		10/01/25 18:41		

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ANALYTICAL RESULTS

Project: TEC BASA Additional
Pace Project No.: 60482481

Sample: MW-12-091525 **Lab ID: 60482481005** Collected: 09/15/25 13:30 Received: 09/16/25 14:36 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								
Magnesium, Total Recoverable	**36.2**	mg/L	0.050	0.021	1	09/19/25 14:00	09/30/25 14:17	7439-95-4	
Potassium, Total Recoverable	**4.2**	mg/L	0.50	0.045	1	09/19/25 14:00	09/30/25 14:17	7440-09-7	
Sodium, Total Recoverable	**255**	mg/L	0.50	0.032	1	09/19/25 14:00	09/30/25 14:17	7440-23-5	
Total Hardness by 2340B, Total Recoverable	**665**	mg/L	0.50	0.20	1	09/19/25 14:00	09/30/25 14:17		
200.7 Metals, Dissolved	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City								
Magnesium, Dissolved	**36.1**	mg/L	0.050	0.021	1	09/18/25 09:00	10/02/25 11:39	7439-95-4	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Aluminum, Total Recoverable	**0.049J**	mg/L	0.050	0.0082	1	09/19/25 14:00	09/23/25 12:51	7429-90-5	
Iron, Total Recoverable	**6.3**	mg/L	0.050	0.0044	1	09/19/25 14:00	09/23/25 12:51	7439-89-6	
Manganese, Total Recoverable	**1.7**	mg/L	0.0010	0.00052	1	09/19/25 14:00	09/23/25 12:51	7439-96-5	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Aluminum, Dissolved	**<0.0082**	mg/L	0.050	0.0082	1	09/18/25 09:00	09/23/25 13:46	7429-90-5	
Arsenic, Dissolved	**0.012**	mg/L	0.0010	0.00013	1	09/18/25 09:00	09/23/25 13:46	7440-38-2	
Cobalt, Dissolved	**0.028**	mg/L	0.0010	0.00010	1	09/18/25 09:00	09/23/25 13:46	7440-48-4	
Iron, Dissolved	**5.7**	mg/L	0.050	0.0044	1	09/18/25 09:00	09/23/25 13:46	7439-89-6	
Manganese, Dissolved	**1.7**	mg/L	0.0010	0.00052	1	09/18/25 09:00	09/23/25 13:46	7439-96-5	
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Kansas City								
Alkalinity,Bicarbonate (CaCO3)	**417**	mg/L	20.0	10.5	1		09/22/25 13:38		
Alkalinity,Carbonate (CaCO3)	**<10.5**	mg/L	20.0	10.5	1		09/22/25 13:38		
Alkalinity, Total as CaCO3	**417**	mg/L	20.0	10.5	1		09/22/25 13:38		
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		09/17/25 13:14	15438-31-0	H6
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		09/17/25 00:00	18496-25-8	
300.0 IC Anions	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City								
Nitrate as N	**<0.066**	mg/L	0.10	0.066	1		09/17/25 06:21	14797-55-8	
Nitrite as N	**<0.070**	mg/L	0.10	0.070	1		09/17/25 06:21	14797-65-0	CL

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ANALYTICAL RESULTS

Project: TEC BASA Additional
Pace Project No.: 60482481

Sample: MW-12-091525 **Lab ID: 60482481005** Collected: 09/15/25 13:30 Received: 09/16/25 14:36 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
365.4 Total Phosphorus	Analytical Method: EPA 365.4 Preparation Method: EPA 365.4 Pace Analytical Services - Kansas City								
Phosphorus	**0.27**	mg/L	0.10	0.071	1	09/26/25 11:31	09/26/25 19:58	7723-14-0	
5310C TOC	Analytical Method: SM 5310C Pace Analytical Services - Kansas City								
Total Organic Carbon	**1.5**	mg/L	1.0	0.54	1		09/25/25 00:03	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C Pace Analytical Services - Kansas City								
Dissolved Organic Carbon	**2.8**	mg/L	2.0	1.1	2		10/01/25 18:55		

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ANALYTICAL RESULTS

Project: TEC BASA Additional
Pace Project No.: 60482481

Sample: MW-13-091525 **Lab ID: 60482481006** Collected: 09/15/25 15:45 Received: 09/16/25 14:36 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								
Magnesium, Total Recoverable	**6.4**	mg/L	0.050	0.021	1	09/19/25 14:00	09/30/25 14:19	7439-95-4	
Potassium, Total Recoverable	**29.6**	mg/L	0.50	0.045	1	09/19/25 14:00	09/30/25 14:19	7440-09-7	
Sodium, Total Recoverable	**184**	mg/L	0.50	0.032	1	09/19/25 14:00	09/30/25 14:19	7440-23-5	
Total Hardness by 2340B, Total Recoverable	**518**	mg/L	0.50	0.20	1	09/19/25 14:00	09/30/25 14:19		
200.7 Metals, Dissolved	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City								
Magnesium, Dissolved	**7.3**	mg/L	0.050	0.021	1	09/18/25 09:00	10/02/25 11:40	7439-95-4	D9
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Aluminum, Total Recoverable	**0.69**	mg/L	0.050	0.0082	1	09/19/25 14:00	09/23/25 12:59	7429-90-5	
Iron, Total Recoverable	**1.1**	mg/L	0.050	0.0044	1	09/19/25 14:00	09/23/25 12:59	7439-89-6	
Manganese, Total Recoverable	**0.20**	mg/L	0.0010	0.00052	1	09/19/25 14:00	09/23/25 12:59	7439-96-5	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Aluminum, Dissolved	**<0.0082**	mg/L	0.050	0.0082	1	09/18/25 09:00	09/23/25 13:49	7429-90-5	
Arsenic, Dissolved	**0.0066**	mg/L	0.0010	0.00013	1	09/18/25 09:00	09/23/25 13:49	7440-38-2	
Cobalt, Dissolved	**0.00045J**	mg/L	0.0010	0.00010	1	09/18/25 09:00	09/23/25 13:49	7440-48-4	
Iron, Dissolved	**0.060**	mg/L	0.050	0.0044	1	09/18/25 09:00	09/23/25 13:49	7439-89-6	
Manganese, Dissolved	**0.21**	mg/L	0.0010	0.00052	1	09/18/25 09:00	09/23/25 13:49	7439-96-5	D9
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Kansas City								
Alkalinity,Bicarbonate (CaCO3)	**55.1**	mg/L	20.0	10.5	1		09/22/25 13:42		
Alkalinity,Carbonate (CaCO3)	**<10.5**	mg/L	20.0	10.5	1		09/22/25 13:42		
Alkalinity, Total as CaCO3	**55.1**	mg/L	20.0	10.5	1		09/22/25 13:42		
Iron, Ferrous	Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City								
Iron, Ferrous	**0.69**	mg/L	0.20	0.041	1		09/17/25 13:14	15438-31-0	H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D Pace Analytical Services - Kansas City								
Sulfide, Total	**0.034J**	mg/L	0.050	0.016	1		09/17/25 00:00	18496-25-8	
300.0 IC Anions	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City								
Nitrate as N	**0.35**	mg/L	0.10	0.066	1		09/17/25 07:44	14797-55-8	
Nitrite as N	**<0.070**	mg/L	0.10	0.070	1		09/17/25 07:44	14797-65-0	CL

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ANALYTICAL RESULTS

Project: TEC BASA Additional
Pace Project No.: 60482481

Sample: MW-13-091525 **Lab ID: 60482481006** Collected: 09/15/25 15:45 Received: 09/16/25 14:36 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
365.4 Total Phosphorus	Analytical Method: EPA 365.4 Preparation Method: EPA 365.4 Pace Analytical Services - Kansas City								
Phosphorus	**0.29**	mg/L	0.10	0.071	1	09/26/25 11:31	09/26/25 20:00	7723-14-0	
5310C TOC	Analytical Method: SM 5310C Pace Analytical Services - Kansas City								
Total Organic Carbon	**0.80J**	mg/L	1.0	0.54	1		09/25/25 00:18	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C Pace Analytical Services - Kansas City								
Dissolved Organic Carbon	**0.98J**	mg/L	1.0	0.54	1		10/01/25 19:10		

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ANALYTICAL RESULTS

Project: TEC BASA Additional
Pace Project No.: 60482481

Sample: MW-14-091625 **Lab ID: 60482481007** Collected: 09/16/25 09:30 Received: 09/16/25 14:36 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								
Magnesium, Total Recoverable	**23.8**	mg/L	0.050	0.021	1	09/19/25 14:00	09/30/25 14:21	7439-95-4	
Potassium, Total Recoverable	**9.7**	mg/L	0.50	0.045	1	09/19/25 14:00	09/30/25 14:21	7440-09-7	
Sodium, Total Recoverable	**245**	mg/L	0.50	0.032	1	09/19/25 14:00	09/30/25 14:21	7440-23-5	M1,P6
Total Hardness by 2340B, Total Recoverable	**545**	mg/L	0.50	0.20	1	09/19/25 14:00	09/30/25 14:21		
200.7 Metals, Dissolved	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City								
Magnesium, Dissolved	**24.6**	mg/L	0.050	0.021	1	09/18/25 09:00	10/02/25 11:42	7439-95-4	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Aluminum, Total Recoverable	**0.79**	mg/L	0.050	0.0082	1	09/19/25 14:00	09/23/25 13:02	7429-90-5	
Iron, Total Recoverable	**1.4**	mg/L	0.050	0.0044	1	09/19/25 14:00	09/23/25 13:02	7439-89-6	
Manganese, Total Recoverable	**0.17**	mg/L	0.0010	0.00052	1	09/19/25 14:00	09/23/25 13:02	7439-96-5	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Aluminum, Dissolved	**<0.0082**	mg/L	0.050	0.0082	1	09/18/25 09:00	09/23/25 13:52	7429-90-5	
Arsenic, Dissolved	**0.0014**	mg/L	0.0010	0.00013	1	09/18/25 09:00	09/23/25 13:52	7440-38-2	
Cobalt, Dissolved	**0.00045J**	mg/L	0.0010	0.00010	1	09/18/25 09:00	09/23/25 13:52	7440-48-4	
Iron, Dissolved	**0.0055J**	mg/L	0.050	0.0044	1	09/18/25 09:00	09/23/25 13:52	7439-89-6	B
Manganese, Dissolved	**0.15**	mg/L	0.0010	0.00052	1	09/18/25 09:00	09/23/25 13:52	7439-96-5	
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Kansas City								
Alkalinity,Bicarbonate (CaCO3)	**320**	mg/L	20.0	10.5	1		09/22/25 14:13		
Alkalinity,Carbonate (CaCO3)	**<10.5**	mg/L	20.0	10.5	1		09/22/25 14:13		
Alkalinity, Total as CaCO3	**320**	mg/L	20.0	10.5	1		09/22/25 14:13		
Iron, Ferrous	Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City								
Iron, Ferrous	**0.44**	mg/L	0.20	0.041	1		09/17/25 13:14	15438-31-0	H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D Pace Analytical Services - Kansas City								
Sulfide, Total	**0.040J**	mg/L	0.050	0.016	1		09/17/25 00:00	18496-25-8	
300.0 IC Anions	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City								
Nitrate as N	**1.2**	mg/L	0.10	0.066	1		09/17/25 15:57	14797-55-8	
Nitrite as N	**<0.070**	mg/L	0.10	0.070	1		09/17/25 15:57	14797-65-0	

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ANALYTICAL RESULTS

Project: TEC BASA Additional
Pace Project No.: 60482481

Sample: MW-14-091625 **Lab ID: 60482481007** Collected: 09/16/25 09:30 Received: 09/16/25 14:36 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
365.4 Total Phosphorus	Analytical Method: EPA 365.4 Preparation Method: EPA 365.4 Pace Analytical Services - Kansas City								
Phosphorus	**0.22**	mg/L	0.10	0.071	1	09/26/25 11:31	09/26/25 20:02	7723-14-0	
5310C TOC	Analytical Method: SM 5310C Pace Analytical Services - Kansas City								
Total Organic Carbon	**0.83J**	mg/L	1.0	0.54	1		09/25/25 00:32	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C Pace Analytical Services - Kansas City								
Dissolved Organic Carbon	**0.82J**	mg/L	1.0	0.54	1		10/01/25 19:24		

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ANALYTICAL RESULTS

Project: TEC BASA Additional
Pace Project No.: 60482481

Sample: TEC-BASA-DUP-091525 **Lab ID: 60482481008** Collected: 09/15/25 12:10 Received: 09/16/25 14:36 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								
Magnesium, Total Recoverable	**24.3**	mg/L	0.050	0.021	1	09/19/25 14:00	09/30/25 14:24	7439-95-4	
Potassium, Total Recoverable	**3.4**	mg/L	0.50	0.045	1	09/19/25 14:00	09/30/25 14:24	7440-09-7	
Sodium, Total Recoverable	**187**	mg/L	0.50	0.032	1	09/19/25 14:00	09/30/25 14:24	7440-23-5	
Total Hardness by 2340B, Total Recoverable	**448**	mg/L	0.50	0.20	1	09/19/25 14:00	09/30/25 14:24		
200.7 Metals, Dissolved	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City								
Magnesium, Dissolved	**23.9**	mg/L	0.050	0.021	1	09/18/25 09:00	10/02/25 11:44	7439-95-4	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Aluminum, Total Recoverable	**0.039J**	mg/L	0.050	0.0082	1	09/19/25 14:00	09/23/25 13:05	7429-90-5	
Iron, Total Recoverable	**0.066**	mg/L	0.050	0.0044	1	09/19/25 14:00	09/23/25 13:05	7439-89-6	
Manganese, Total Recoverable	**0.36**	mg/L	0.0010	0.00052	1	09/19/25 14:00	09/23/25 13:05	7439-96-5	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Aluminum, Dissolved	**<0.0082**	mg/L	0.050	0.0082	1	09/18/25 09:00	09/23/25 14:00	7429-90-5	
Arsenic, Dissolved	**0.0011**	mg/L	0.0010	0.00013	1	09/18/25 09:00	09/23/25 14:00	7440-38-2	
Cobalt, Dissolved	**0.00079J**	mg/L	0.0010	0.00010	1	09/18/25 09:00	09/23/25 14:00	7440-48-4	
Iron, Dissolved	**0.012J**	mg/L	0.050	0.0044	1	09/18/25 09:00	09/23/25 14:00	7439-89-6	B
Manganese, Dissolved	**0.35**	mg/L	0.0010	0.00052	1	09/18/25 09:00	09/23/25 14:00	7439-96-5	
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Kansas City								
Alkalinity,Bicarbonate (CaCO3)	**427**	mg/L	20.0	10.5	1		09/22/25 13:49		
Alkalinity,Carbonate (CaCO3)	**<10.5**	mg/L	20.0	10.5	1		09/22/25 13:49		
Alkalinity, Total as CaCO3	**427**	mg/L	20.0	10.5	1		09/22/25 13:49		
Iron, Ferrous	Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City								
Iron, Ferrous	**0.062J**	mg/L	0.20	0.041	1		09/17/25 13:14	15438-31-0	H6
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		09/17/25 00:00	18496-25-8	
300.0 IC Anions	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City								
Nitrate as N	**<0.066**	mg/L	0.10	0.066	1		09/17/25 04:02	14797-55-8	
Nitrite as N	**<0.070**	mg/L	0.10	0.070	1		09/17/25 04:02	14797-65-0	CL

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ANALYTICAL RESULTS

Project: TEC BASA Additional
Pace Project No.: 60482481

Sample: TEC-BASA-DUP-091525 **Lab ID: 60482481008** Collected: 09/15/25 12:10 Received: 09/16/25 14:36 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
365.4 Total Phosphorus	Analytical Method: EPA 365.4 Preparation Method: EPA 365.4 Pace Analytical Services - Kansas City								
Phosphorus	**0.38**	mg/L	0.10	0.071	1	09/26/25 11:31	09/26/25 20:05	7723-14-0	
5310C TOC	Analytical Method: SM 5310C Pace Analytical Services - Kansas City								
Total Organic Carbon	**<0.54**	mg/L	1.0	0.54	1		09/25/25 01:14	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C Pace Analytical Services - Kansas City								
Dissolved Organic Carbon	**0.58J**	mg/L	1.0	0.54	1		10/01/25 19:38		

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QUALITY CONTROL DATA

Project: TEC BASA Additional
Pace Project No.: 60482481

QC Batch: 948812
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: 60482481001, 60482481002, 60482481003, 60482481004, 60482481005, 60482481006, 60482481007, 60482481008

METHOD BLANK: 3760686 Matrix: Water
Associated Lab Samples: 60482481001, 60482481002, 60482481003, 60482481004, 60482481005, 60482481006, 60482481007, 60482481008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Hardness, Total(SM 2340B)	mg/L	<0.20	0.50	0.20	09/30/25 13:53	
Magnesium	mg/L	<0.021	0.050	0.021	09/30/25 13:53	
Potassium	mg/L	<0.045	0.50	0.045	09/30/25 13:53	
Sodium	mg/L	<0.032	0.50	0.032	09/30/25 13:53	

LABORATORY CONTROL SAMPLE: 3760687

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Hardness, Total(SM 2340B)	mg/L	66.2	67.0	101	85-115	
Magnesium	mg/L	10	10.0	100	85-115	
Potassium	mg/L	10	10.1	101	85-115	
Sodium	mg/L	10	10.1	101	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3760688 3760689

Parameter	Units	60482560001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Hardness, Total(SM 2340B)	mg/L	597000 ug/L	66.2	66.2	660	639	96	63	70-130	3	20	
Magnesium	mg/L	57500 ug/L	10	10	67.1	64.6	96	71	70-130	4	20	
Potassium	mg/L	51600 ug/L	10	10	61.0	60.5	93	88	70-130	1	20	
Sodium	mg/L	326000 ug/L	10	10	332	327	65	11	70-130	2	20	M1

MATRIX SPIKE SAMPLE: 3760695

Parameter	Units	60482481007 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Hardness, Total(SM 2340B)	mg/L	545	66.2	583	57	70-130	
Magnesium	mg/L	23.8	10	32.0	83	70-130	
Potassium	mg/L	9.7	10	19.5	98	70-130	
Sodium	mg/L	245	10	245	-5	70-130	M1

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QUALITY CONTROL DATA

Project: TEC BASA Additional
Pace Project No.: 60482481

QC Batch: 948538
QC Batch Method: EPA 200.7
Analysis Method: EPA 200.7
Analysis Description: 200.7 Metals, Dissolved
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60482481001, 60482481002, 60482481003, 60482481004, 60482481005, 60482481006, 60482481007, 60482481008

METHOD BLANK: 3759514 Matrix: Water
Associated Lab Samples: 60482481001, 60482481002, 60482481003, 60482481004, 60482481005, 60482481006, 60482481007, 60482481008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Magnesium, Dissolved	mg/L	<0.021	0.050	0.021	10/02/25 11:15	

LABORATORY CONTROL SAMPLE: 3759515

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Magnesium, Dissolved	mg/L	10	9.9	99	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3759516 3759517

Parameter	Units	60482476001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Magnesium, Dissolved	mg/L	25.4	10	10	34.9	34.4	96	91	70-130	1	20	

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QUALITY CONTROL DATA

Project: TEC BASA Additional
Pace Project No.: 60482481

QC Batch: 948813
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: 60482481001, 60482481002, 60482481003, 60482481004, 60482481005, 60482481006, 60482481007, 60482481008

METHOD BLANK: 3760691 Matrix: Water
Associated Lab Samples: 60482481001, 60482481002, 60482481003, 60482481004, 60482481005, 60482481006, 60482481007, 60482481008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Aluminum	mg/L	<0.0082	0.050	0.0082	09/23/25 12:11	
Iron	mg/L	<0.0044	0.050	0.0044	09/23/25 12:11	
Manganese	mg/L	<0.00052	0.0010	0.00052	09/23/25 12:11	

LABORATORY CONTROL SAMPLE: 3760692

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	mg/L	1	1.0	104	85-115	
Iron	mg/L	1	1.0	102	85-115	
Manganese	mg/L	0.04	0.040	100	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3760693 3760694

Parameter	Units	60482481001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum	mg/L	0.041J	1	1	1.2	1.2	115	115	70-130	0	20	
Iron	mg/L	0.062	1	1	1.1	1.1	107	107	70-130	0	20	
Manganese	mg/L	0.34	0.04	0.04	0.40	0.40	129	141	70-130	1	20	M1

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QUALITY CONTROL DATA

Project: TEC BASA Additional
Pace Project No.: 60482481

QC Batch: 948539
QC Batch Method: EPA 200.8
Analysis Method: EPA 200.8
Analysis Description: 200.8 MET Dissolved
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60482481001, 60482481002, 60482481003, 60482481004, 60482481005, 60482481006, 60482481007, 60482481008

METHOD BLANK: 3759519 Matrix: Water
Associated Lab Samples: 60482481001, 60482481002, 60482481003, 60482481004, 60482481005, 60482481006, 60482481007, 60482481008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Aluminum, Dissolved	mg/L	<0.0082	0.050	0.0082	09/22/25 15:22	
Arsenic, Dissolved	mg/L	<0.00013	0.0010	0.00013	09/22/25 15:22	
Cobalt, Dissolved	mg/L	<0.00010	0.0010	0.00010	09/22/25 15:22	
Iron, Dissolved	mg/L	0.0057J	0.050	0.0044	09/22/25 15:22	
Manganese, Dissolved	mg/L	<0.00052	0.0010	0.00052	09/22/25 15:22	

LABORATORY CONTROL SAMPLE: 3759520

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	mg/L	1	1.0	104	85-115	
Arsenic, Dissolved	mg/L	0.04	0.043	106	85-115	
Cobalt, Dissolved	mg/L	0.04	0.045	114	85-115	
Iron, Dissolved	mg/L	1	1.1	111	85-115	
Manganese, Dissolved	mg/L	0.04	0.044	109	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3759521 3759522

Parameter	Units	60482476002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum, Dissolved	mg/L	<0.0082	1	1	1.2	1.2	120	121	70-130	1	20	
Arsenic, Dissolved	mg/L	0.0013	0.04	0.04	0.045	0.046	109	111	70-130	2	20	
Cobalt, Dissolved	mg/L	0.0012	0.04	0.04	0.048	0.048	116	118	70-130	2	20	
Iron, Dissolved	mg/L	0.12	1	1	1.3	1.3	121	123	70-130	1	20	
Manganese, Dissolved	mg/L	2.2	0.04	0.04	2.3	2.4	277	310	70-130	1	20	M1

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QUALITY CONTROL DATA

Project: TEC BASA Additional
Pace Project No.: 60482481

QC Batch: 948749
QC Batch Method: SM 2320B
Analysis Method: SM 2320B
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60482481001, 60482481003

METHOD BLANK: 3760281 Matrix: Water
Associated Lab Samples: 60482481001, 60482481003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<10.5	20.0	10.5	09/19/25 12:44	
Alkalinity,Bicarbonate (CaCO3)	mg/L	<10.5	20.0	10.5	09/19/25 12:44	
Alkalinity,Carbonate (CaCO3)	mg/L	<10.5	20.0	10.5	09/19/25 12:44	

LABORATORY CONTROL SAMPLE: 3760282

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	500	481	96	90-110	

SAMPLE DUPLICATE: 3760283

Parameter	Units	60482434001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	387	387	0	10	
Alkalinity,Bicarbonate (CaCO3)	mg/L	387	387	0	10	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	<10.5		10	

SAMPLE DUPLICATE: 3760284

Parameter	Units	60482640002 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	251	245	2	10	
Alkalinity,Bicarbonate (CaCO3)	mg/L	251	245	2	10	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	<10.5		10	

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QUALITY CONTROL DATA

Project: TEC BASA Additional
Pace Project No.: 60482481

QC Batch: 948939
QC Batch Method: SM 2320B
Analysis Method: SM 2320B
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60482481002, 60482481004, 60482481005, 60482481006, 60482481007, 60482481008

METHOD BLANK: 3761209 Matrix: Water
Associated Lab Samples: 60482481002, 60482481004, 60482481005, 60482481006, 60482481007, 60482481008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<10.5	20.0	10.5	09/22/25 13:02	
Alkalinity,Bicarbonate (CaCO3)	mg/L	<10.5	20.0	10.5	09/22/25 13:02	
Alkalinity,Carbonate (CaCO3)	mg/L	<10.5	20.0	10.5	09/22/25 13:02	

LABORATORY CONTROL SAMPLE: 3761210

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	500	479	96	90-110	

SAMPLE DUPLICATE: 3761211

Parameter	Units	60482695001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	115	108	6	10	
Alkalinity,Bicarbonate (CaCO3)	mg/L	115	108	6	10	
Alkalinity,Carbonate (CaCO3)	mg/L	<10.5	<10.5		10	

SAMPLE DUPLICATE: 3761212

Parameter	Units	60482503003 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	472	480	2	10	
Alkalinity,Bicarbonate (CaCO3)	mg/L	472	480	2	10	
Alkalinity,Carbonate (CaCO3)	mg/L	<10.5	<10.5		10	

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QUALITY CONTROL DATA

Project: TEC BASA Additional
Pace Project No.: 60482481

QC Batch: 948449
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: 60482481001, 60482481002, 60482481003, 60482481004, 60482481005, 60482481006, 60482481007, 60482481008

METHOD BLANK: 3759192 Matrix: Water
Associated Lab Samples: 60482481001, 60482481002, 60482481003, 60482481004, 60482481005, 60482481006, 60482481007, 60482481008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Iron, Ferrous	mg/L	<0.041	0.20	0.041	09/17/25 13:14	H6

LABORATORY CONTROL SAMPLE: 3759193

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Ferrous	mg/L	2	2.1	103	90-110	H6

SAMPLE DUPLICATE: 3759194

Parameter	Units	60482481003 Result	Dup Result	RPD	Max RPD	Qualifiers
Iron, Ferrous	mg/L	1.1	1.0	3	20	H6

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QUALITY CONTROL DATA

Project: TEC BASA Additional
Pace Project No.: 60482481

QC Batch: 948478
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: 60482481001, 60482481002, 60482481003, 60482481004, 60482481005, 60482481006, 60482481007, 60482481008

METHOD BLANK: 3759373 Matrix: Water
Associated Lab Samples: 60482481001, 60482481002, 60482481003, 60482481004, 60482481005, 60482481006, 60482481007, 60482481008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide, Total	mg/L	<0.016	0.050	0.016	09/17/25 00:00	

LABORATORY CONTROL SAMPLE: 3759374

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: 3759376 3759377

Parameter	Units	60482434001 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	ND	0.5	0.5	0.53	0.53	105	106	75-125	0	20	

SAMPLE DUPLICATE: 3759375

Parameter	Units	60482434001 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	ND	<0.016		20	

SAMPLE DUPLICATE: 3759378

Parameter	Units	60482434002 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	ND	<0.016		20	

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QUALITY CONTROL DATA

Project: TEC BASA Additional
Pace Project No.: 60482481

QC Batch: 948331 | Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 | Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60482481001, 60482481003, 60482481004, 60482481005, 60482481006, 60482481008

METHOD BLANK: 3758687 Matrix: Water
Associated Lab Samples: 60482481001, 60482481003, 60482481004, 60482481005, 60482481006, 60482481008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrate as N	mg/L	<0.066	0.10	0.066	09/16/25 20:01	
Nitrite as N	mg/L	<0.070	0.10	0.070	09/16/25 20:01	

LABORATORY CONTROL SAMPLE: 3758688

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrate as N	mg/L	2	1.9	96	90-110	
Nitrite as N	mg/L	2	2.0	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3758689 3758690

Parameter	Units	60481584001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrate as N	mg/L	0.41	2	2	2.4	2.5	100	103	80-120	2	15	H3
Nitrite as N	mg/L	ND	2	2	2.1	2.2	101	104	80-120	4	15	CL,H3

MATRIX SPIKE SAMPLE: 3758691

Parameter	Units	60482480001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrate as N	mg/L	0.27	2	2.2	98	80-120	
Nitrite as N	mg/L	<0.10	2	1.4	69	80-120	CL,M1

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(913)599-5665

QUALITY CONTROL DATA

Project: TEC BASA Additional
Pace Project No.: 60482481

QC Batch: 948398
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: 60482481002, 60482481007

METHOD BLANK: 3758953 Matrix: Water
Associated Lab Samples: 60482481002, 60482481007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrate as N	mg/L	<0.066	0.10	0.066	09/17/25 13:46	
Nitrite as N	mg/L	<0.070	0.10	0.070	09/17/25 13:46	

LABORATORY CONTROL SAMPLE: 3758954

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrate as N	mg/L	2	2.0	99	90-110	
Nitrite as N	mg/L	2	2.0	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3758955 3758956

Parameter	Units	60482480007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrate as N	mg/L	1.1	2	2	3.1	3.1	99	100	80-120	1	15	
Nitrite as N	mg/L	<0.10	2	2	1.3	1.3	63	64	80-120	2	15	M1

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QUALITY CONTROL DATA

Project: TEC BASA Additional
Pace Project No.: 60482481

QC Batch: 949523
QC Batch Method: EPA 365.4
Analysis Method: EPA 365.4
Analysis Description: 365.4 Phosphorus
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60482481001, 60482481002, 60482481003, 60482481004, 60482481005, 60482481006, 60482481007, 60482481008

METHOD BLANK: 3763165 Matrix: Water
Associated Lab Samples: 60482481001, 60482481002, 60482481003, 60482481004, 60482481005, 60482481006, 60482481007, 60482481008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Phosphorus	mg/L	<0.071	0.10	0.071	09/26/25 19:20	

LABORATORY CONTROL SAMPLE: 3763166

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphorus	mg/L	5	4.9	98	80-120	

MATRIX SPIKE SAMPLE: 3763167

Parameter	Units	60482476001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phosphorus	mg/L	0.87	5	5.8	98	80-120	

MATRIX SPIKE SAMPLE: 3763169

Parameter	Units	60482503001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phosphorus	mg/L	1.7	5	6.7	102	80-120	

SAMPLE DUPLICATE: 3763168

Parameter	Units	60482481001 Result	Dup Result	RPD	Max RPD	Qualifiers
Phosphorus	mg/L	0.41	0.35	15	10	D6

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QUALITY CONTROL DATA

Project: TEC BASA Additional
Pace Project No.: 60482481

QC Batch: 949388
QC Batch Method: SM 5310C
Analysis Method: SM 5310C
Analysis Description: 5310C Total Organic Carbon
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60482481001, 60482481002, 60482481003, 60482481004, 60482481005, 60482481006, 60482481007, 60482481008

METHOD BLANK: 3762572 Matrix: Water
Associated Lab Samples: 60482481001, 60482481002, 60482481003, 60482481004, 60482481005, 60482481006, 60482481007, 60482481008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Organic Carbon	mg/L	<0.54	1.0	0.54	09/24/25 20:18	

LABORATORY CONTROL SAMPLE: 3762573

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	5	5.0	100	80-120	

MATRIX SPIKE SAMPLE: 3762574

Parameter	Units	60482476001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	1.1	5	5.1	80	80-120	

SAMPLE DUPLICATE: 3762575

Parameter	Units	60482476001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Organic Carbon	mg/L	1.1	0.83J		25	

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QUALITY CONTROL DATA

Project: TEC BASA Additional
Pace Project No.: 60482481

QC Batch: 950064
QC Batch Method: SM 5310C
Analysis Method: SM 5310C
Analysis Description: 5310C Dissolved Organic Carbon
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60482481001, 60482481002, 60482481003, 60482481004, 60482481005, 60482481006, 60482481007, 60482481008

METHOD BLANK: 3765283 Matrix: Water
Associated Lab Samples: 60482481001, 60482481002, 60482481003, 60482481004, 60482481005, 60482481006, 60482481007, 60482481008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Dissolved Organic Carbon	mg/L	<0.54	1.0	0.54	10/01/25 16:06	

LABORATORY CONTROL SAMPLE: 3765284

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	5	4.8	96	80-120	

MATRIX SPIKE SAMPLE: 3765285

Parameter	Units	60482476001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	1.1	5	5.3	83	80-120	

SAMPLE DUPLICATE: 3765286

Parameter	Units	60482476001 Result	Dup Result	RPD	Max RPD	Qualifiers
Dissolved Organic Carbon	mg/L	1.1	1.1	2	25	

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QUALIFIERS

Project: TEC BASA Additional
Pace Project No.: 60482481

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

B	Analyte was detected in the associated method blank.
CL	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.
D6	The precision between the sample and sample duplicate exceeded laboratory control limits.
D9	Dissolved result is greater than the total. Data is within laboratory control limits.
H3	Sample was received or analysis requested beyond the recognized 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.
P6	Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: TEC BASA Additional
Pace Project No.: 60482481

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60482481001	**MW-7-091525**	EPA 200.7	948812	EPA 200.7	948836
60482481002	**MW-8-091625**	EPA 200.7	948812	EPA 200.7	948836
60482481003	**MW-10-091525**	EPA 200.7	948812	EPA 200.7	948836
60482481004	**MW-11A-091525**	EPA 200.7	948812	EPA 200.7	948836
60482481005	**MW-12-091525**	EPA 200.7	948812	EPA 200.7	948836
60482481006	**MW-13-091525**	EPA 200.7	948812	EPA 200.7	948836
60482481007	**MW-14-091625**	EPA 200.7	948812	EPA 200.7	948836
60482481008	**TEC-BASA-DUP-091525**	EPA 200.7	948812	EPA 200.7	948836
60482481001	**MW-7-091525**	EPA 200.7	948538	EPA 200.7	948613
60482481002	**MW-8-091625**	EPA 200.7	948538	EPA 200.7	948613
60482481003	**MW-10-091525**	EPA 200.7	948538	EPA 200.7	948613
60482481004	**MW-11A-091525**	EPA 200.7	948538	EPA 200.7	948613
60482481005	**MW-12-091525**	EPA 200.7	948538	EPA 200.7	948613
60482481006	**MW-13-091525**	EPA 200.7	948538	EPA 200.7	948613
60482481007	**MW-14-091625**	EPA 200.7	948538	EPA 200.7	948613
60482481008	**TEC-BASA-DUP-091525**	EPA 200.7	948538	EPA 200.7	948613
60482481001	**MW-7-091525**	EPA 200.8	948813	EPA 200.8	948837
60482481002	**MW-8-091625**	EPA 200.8	948813	EPA 200.8	948837
60482481003	**MW-10-091525**	EPA 200.8	948813	EPA 200.8	948837
60482481004	**MW-11A-091525**	EPA 200.8	948813	EPA 200.8	948837
60482481005	**MW-12-091525**	EPA 200.8	948813	EPA 200.8	948837
60482481006	**MW-13-091525**	EPA 200.8	948813	EPA 200.8	948837
60482481007	**MW-14-091625**	EPA 200.8	948813	EPA 200.8	948837
60482481008	**TEC-BASA-DUP-091525**	EPA 200.8	948813	EPA 200.8	948837
60482481001	**MW-7-091525**	EPA 200.8	948539	EPA 200.8	948614
60482481002	**MW-8-091625**	EPA 200.8	948539	EPA 200.8	948614
60482481003	**MW-10-091525**	EPA 200.8	948539	EPA 200.8	948614
60482481004	**MW-11A-091525**	EPA 200.8	948539	EPA 200.8	948614
60482481005	**MW-12-091525**	EPA 200.8	948539	EPA 200.8	948614
60482481006	**MW-13-091525**	EPA 200.8	948539	EPA 200.8	948614
60482481007	**MW-14-091625**	EPA 200.8	948539	EPA 200.8	948614
60482481008	**TEC-BASA-DUP-091525**	EPA 200.8	948539	EPA 200.8	948614
60482481001	**MW-7-091525**	SM 2320B	948749		
60482481002	**MW-8-091625**	SM 2320B	948939		
60482481003	**MW-10-091525**	SM 2320B	948749		
60482481004	**MW-11A-091525**	SM 2320B	948939		
60482481005	**MW-12-091525**	SM 2320B	948939		
60482481006	**MW-13-091525**	SM 2320B	948939		
60482481007	**MW-14-091625**	SM 2320B	948939		
60482481008	**TEC-BASA-DUP-091525**	SM 2320B	948939		
60482481001	**MW-7-091525**	SM 3500-Fe B#4	948449		
60482481002	**MW-8-091625**	SM 3500-Fe B#4	948449		
60482481003	**MW-10-091525**	SM 3500-Fe B#4	948449		
60482481004	**MW-11A-091525**	SM 3500-Fe B#4	948449		
60482481005	**MW-12-091525**	SM 3500-Fe B#4	948449		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: TEC BASA Additional
Pace Project No.: 60482481

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60482481006	**MW-13-091525**	SM 3500-Fe B#4	948449		
60482481007	**MW-14-091625**	SM 3500-Fe B#4	948449		
60482481008	**TEC-BASA-DUP-091525**	SM 3500-Fe B#4	948449		
60482481001	**MW-7-091525**	SM 4500-S-2 D	948478		
60482481002	**MW-8-091625**	SM 4500-S-2 D	948478		
60482481003	**MW-10-091525**	SM 4500-S-2 D	948478		
60482481004	**MW-11A-091525**	SM 4500-S-2 D	948478		
60482481005	**MW-12-091525**	SM 4500-S-2 D	948478		
60482481006	**MW-13-091525**	SM 4500-S-2 D	948478		
60482481007	**MW-14-091625**	SM 4500-S-2 D	948478		
60482481008	**TEC-BASA-DUP-091525**	SM 4500-S-2 D	948478		
60482481001	**MW-7-091525**	EPA 300.0	948331		
60482481002	**MW-8-091625**	EPA 300.0	948398		
60482481003	**MW-10-091525**	EPA 300.0	948331		
60482481004	**MW-11A-091525**	EPA 300.0	948331		
60482481005	**MW-12-091525**	EPA 300.0	948331		
60482481006	**MW-13-091525**	EPA 300.0	948331		
60482481007	**MW-14-091625**	EPA 300.0	948398		
60482481008	**TEC-BASA-DUP-091525**	EPA 300.0	948331		
60482481001	**MW-7-091525**	EPA 365.4	949523	EPA 365.4	949852
60482481002	**MW-8-091625**	EPA 365.4	949523	EPA 365.4	949852
60482481003	**MW-10-091525**	EPA 365.4	949523	EPA 365.4	949852
60482481004	**MW-11A-091525**	EPA 365.4	949523	EPA 365.4	949852
60482481005	**MW-12-091525**	EPA 365.4	949523	EPA 365.4	949852
60482481006	**MW-13-091525**	EPA 365.4	949523	EPA 365.4	949852
60482481007	**MW-14-091625**	EPA 365.4	949523	EPA 365.4	949852
60482481008	**TEC-BASA-DUP-091525**	EPA 365.4	949523	EPA 365.4	949852
60482481001	**MW-7-091525**	SM 5310C	949388		
60482481002	**MW-8-091625**	SM 5310C	949388		
60482481003	**MW-10-091525**	SM 5310C	949388		
60482481004	**MW-11A-091525**	SM 5310C	949388		
60482481005	**MW-12-091525**	SM 5310C	949388		
60482481006	**MW-13-091525**	SM 5310C	949388		
60482481007	**MW-14-091625**	SM 5310C	949388		
60482481008	**TEC-BASA-DUP-091525**	SM 5310C	949388		
60482481001	**MW-7-091525**	SM 5310C	950064		
60482481002	**MW-8-091625**	SM 5310C	950064		
60482481003	**MW-10-091525**	SM 5310C	950064		
60482481004	**MW-11A-091525**	SM 5310C	950064		
60482481005	**MW-12-091525**	SM 5310C	950064		
60482481006	**MW-13-091525**	SM 5310C	950064		
60482481007	**MW-14-091625**	SM 5310C	950064		
60482481008	**TEC-BASA-DUP-091525**	SM 5310C	950064		

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Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-LENE-0009	WO# : 60482481
	Revision: 2	Effective Date: 0

Client Name: Evergy

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** 5.6 **Corr. Factor** +0.0 **Corrected** 5.6

Date and initials of person examining contents: CS 9/16

Temperature should be above freezing to 6°C

Chain of Custody present:	☑Yes ☐No ☐N/A	* Cooler #2 temp is 5.8
Chain of Custody relinquished:	☑Yes ☐No ☐N/A	° Container labels for a different
Samples arrived within holding time:	☑Yes ☐No ☐N/A	project was used, under
Short Hold Time analyses (<72hr): NOX	☑Yes ☐No ☐N/A	"TEC Basa Perimeter
Rush Turn Around Time requested:	☐Yes ☑No ☐N/A	Shallow" for sample IDs:
Sufficient volume:	☑Yes ☐No ☐N/A	"MW-7-091525" and "TEC-
Correct containers used:	☑Yes ☐No ☐N/A	BASA-DUP-091525", times
Pace containers used:	☑Yes ☐No ☐N/A	and dates do match COC
Containers intact:	☑Yes ☐No ☐N/A	for all containers
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#: 38728 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

60482481

Scan QR Code for instructions

Company Name:	Evergy Kansas Central, Inc.	Contact/Report To:	Jake Humphrey
Street Address:	818 S Kansas Avenue Topeka, KS 66612	Phone #:	(913)634-0605
		E-Mail:	jake.humphrey@evergy.com
		Cc E-Mail:	skaney@haleyaldrich.com
Customer Project #:			
Project Name:	TEC BASA Additional	Invoice To:	Tecumseh Center
		Invoice E-Mail:	evergyap@onlinecapturecenter.com
Site Collection Info/Facility ID (as applicable):	Tecumseh Energy Center	Purchase Order # (if applicable):	WSTR-2000094802
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [X] CT [ ] ET

County / State origin of sample(s): Kansas

Data Deliverables:
[ ] Level II [ ] Level III [ ] Level IV
[ ] EQUIS
[ ] Other _____

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [ ] Yes [X] 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): [X] Yes [ ] No
Analysis: Metals, Dissolved and DOC

* 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
MW-7-091525	WT	Grab	-	-	9/15/2025	1210	10	-	-
MW-8-091625	WT	Grab	-	-	9/16/2025	1020	10	-	-
MW-9-091525	NS	NS	-	-	NS	NS	NS	-	-
MW-10-091525	WT	Grab	-	-	9/15/2025	1135	10	-	-
MW-11A-091525	GW	Grab	-	-	9/15/2025	1255	10	-	-
MW-12-091525	GW	Grab	-	-	9/15/2025	1330	10	-	-
MW-13-091525	GW	Grab	-	-	9/15/2025	1545	10	-	-
MW-14-091625	GW	Grab	-	-	9/16/2025	930	10	-	-
TEC-BASA-DUP-091525	WT	Grab	-	-	9/15/2025	1210	10	-	-

Specify Container Size **

200.7 / 200.8 **see list	200.7 /200.8 Dissolved *see list (FF)	2320B Alkalinity,Carb/Bicarb	300.0 NO2NO3 (48 Hr), Cl, F, SO4	4500S2D Sulfide, Total	5310C Dissolved Organic Carbon (FF)	5310C TOC	Iron, Ferrous	Total Phos, NO2NO3
3	3	3	3	3	3	3	6	3

Identify Container Preservative Type***

2	2	1	1	5,6	3	3	4	3

Analysis Requested

X	X	X	X	X	X	X	X	X
X	X	X	X	X	X	X	X	X
-	-	-	-	-	-	-	-	-
X	X	X	X	X	X	X	X	X
X	X	X	X	X	X	X	X	X
X	X	X	X	X	X	X	X	X
X	X	X	X	X	X	X	X	X
X	X	X	X	X	X	X	X	X
X	X	X	X	X	X	X	X	X

**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: Alice Spiller
AcctNum / Client ID:
Table #:
Profile / Template: 16502
Prelog / Bottle Ord. ID: EZ 3295204

Sample Comment

NS - No Sample; Insufficient Groundwater	

Preservation non-conformance identified for sample.

Additional Instructions from Pace®:
200.7 Mg, Na, K , Hardness / 200.8 Al, Fe, Mn Dissolved; 200.7 Mg, 200.8 As, Co, Fe, Al, Mn

Collected By:
(Printed Name) Jason R. Franks
Signature: Jason R. Franks

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)	On Ice:
				5.6	

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Jason R. Franks / SCS	09/16/2025 / 14:00	Carmen June Pace	9/16 14:36
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: 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/

DC#_Title: ENV-FRM-LENE-0001 v07_Sample Container Count
Effective Date: 7/12/2024

Client: Evergy Kansas Central Inc Profile/EZ # EZ3295204

Site: TEC BASA Additional 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	3		1	1			1			
2			2										2								2		1	1	1		1			
3																														
4			2										2								2		1	1	1		1			
5																														
6																														
7																														
8																														
9																				1	3									
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: 60482481

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

December 01, 2025

Jake Humphrey
Evergy, Inc.
818 S Kansas Avenue
Topeka, KS 66612

RE: Project: TEC BASA RAD
Pace Project No.: 60485391

Dear Jake Humphrey:

Enclosed are the analytical results for sample(s) received by the laboratory on November 04, 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 - Greensburg

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

Sincerely,

Alice Spiller

Alice Spiller
alice.spiller@pacelabs.com
(913)599-5665
PM Lab Management

Enclosures

cc: Jordan Eichman, Haley & Aldrich, Inc.
Samantha Kaney, Haley & Aldrich
Melanie Satanek, Haley & Aldrich, Inc.
Adriana Sosa, Haley & Aldrich, Inc.
Nick Williams, Haley Aldrich

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CERTIFICATIONS

Project: TEC BASA RAD
Pace Project No.: 60485391

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

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SAMPLE SUMMARY

Project: TEC BASA RAD
Pace Project No.: 60485391

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60485391001	**MW-8-110325**	Water	11/03/25 11:45	11/04/25 17:17

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: TEC BASA RAD
Pace Project No.: 60485391

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60485391001	**MW-8-110325**	EPA 903.1	DSO	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

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PROJECT NARRATIVE

Project: TEC BASA RAD
Pace Project No.: 60485391

Method: **EPA 903.1**
Description: 903.1 Radium 226
Client: Evergy_Haley & Aldrich
Date: December 01, 2025

General Information:
1 sample was analyzed for EPA 903.1 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA RAD
Pace Project No.: 60485391

Method: **EPA 904.0**
Description: 904.0 Radium 228
Client: Evergy_Haley & Aldrich
Date: December 01, 2025

General Information:
1 sample was analyzed for EPA 904.0 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA RAD
Pace Project No.: 60485391

Method: **Total Radium Calculation**
Description: Total Radium 228+226
Client: Evergy_Haley & Aldrich
Date: December 01, 2025

General Information:
1 sample was analyzed for Total Radium Calculation by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: TEC BASA RAD
Pace Project No.: 60485391

Sample: MW-8-110325 **Lab ID: 60485391001** Collected: 11/03/25 11:45 Received: 11/04/25 17:17 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	**0.0557 ± 0.254 (0.151) C:NA T:88%**	pCi/L	11/26/25 12:58	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**1.30 ± 0.508 (0.782) C:79% T:84%**	pCi/L	11/21/25 14:34	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.36 ± 0.568 (0.782)**	pCi/L	11/26/25 14:23	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: TEC BASA RAD
Pace Project No.: 60485391

QC Batch: 782864
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: 60485391001

METHOD BLANK: 3819079 Matrix: Water
Associated Lab Samples: 60485391001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.745 ± 0.434 (0.810) C:84% T:83%	pCi/L	11/21/25 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

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QUALITY CONTROL - RADIOCHEMISTRY

Project: TEC BASA RAD
Pace Project No.: 60485391

QC Batch: 782863
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: 60485391001

METHOD BLANK: 3819076 Matrix: Water
Associated Lab Samples: 60485391001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	-0.0378 ± 0.173 (0.351) C:NA T:101%	pCi/L	11/26/25 12:47	

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

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QUALIFIERS

Project: TEC BASA RAD
Pace Project No.: 60485391

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.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: TEC BASA RAD
Pace Project No.: 60485391

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60485391001	**MW-8-110325**	EPA 903.1	782863		
60485391001	**MW-8-110325**	EPA 904.0	782864		
60485391001	**MW-8-110325**	Total Radium Calculation	786467		

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WO# : 60485391

60485391

DC#_Title: ENV-FRM-LENE-0009_Sample Cond		
Revision: 3	Effective Date: 09/22/2025	Issued By: Lenexa

Client Name: Evergy Haley ; Aldrich

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 9.7 Corr. Factor 0.0 Corrected 9.7

Date and initials of person examining contents: JK 11/5/25

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

60485391

Scan QR Code for instructions

Company Name:	Evergy_Haley & Aldrich	Contact/Report To:	Jake Humphrey
Street Address:	818 S Kansas Avenue Topeka, KS 66612	Phone #:	(913)634-0605
		E-Mail:	jake.humphrey@evergy.com
		Cc E-Mail:	
Customer Project #:			
Project Name:	TEC BASA RAD	Invoice To:	Tecumseh Center
		Invoice E-Mail:	apinvoicing@evergy.com
Site Collection Info/Facility ID (as applicable):	Tecumseh Energy Center	Purchase Order # (if applicable):	WSTR-2000094802
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [X] CT [ ] ET

County / State origin of sample(s): Kansas

Data Deliverables:
[ ] Level II [ ] Level III [ ] Level IV
[ ] EQUIS
[ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [ ] Yes [X] No

Rush (Pre-approval required):
[ ] Same Day [ ] 1 Day [ ] 2 Day [ ] 3 Day [ ] Other _____

DW PWSID # or WW Permit # as applicable: NA

Date Results Requested:

Field Filtered (if applicable): [ ] Yes [X] No

Analysis:

Specify Container Size **

1

Identify Container Preservative Type***

2

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: Alice Spiller
AcctNum / Client ID:
Table #:
Profile / Template: 16502
Prelog / Bottle Ord. ID: EZ 3315628

* 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	Radium 226, Radium 228, Calc. Combined, QC Sheets	Sample Comment	Preservation non-conformance identified for sample:
MW-8-110325	GW	Grab	-	-	11/3/2025	1145	2	-	-	X		

Additional Instructions from Pace®:

Collected By: (Printed Name) Mikala Postlewait

Signature: Mikala Postlewait

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)	On Ice:
	T301			0.7	

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
Mikala Postlewait / SCS	11/04/2025 / 15:00	Daniel Perez PACE	11-4 1717	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Delivered by: [ ] In- Person [ ] Courier CC [ ] 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 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: Evergy Haley & Aldrich Profile/EZ #: 3315628

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																																
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:

WO#: 60485391
PM: AS Due Date: 12/05/25
CLIENT: Evergy_Haley

Internal Transfer Chain of Custody

☐ Rush Multiplier____X
☒ Samples Pre-Logged into eCOC

State Of Origin: KS
Cert. Needed: ☒ Yes ☐ No
Owner Received Date: 11/4/2025 Results Requested By: 12/5/2025

Workorder: 60485391 Workorder Name: TEC BASA RAD

Report To	Subcontract To
Alice Spiller Pace Analytical Kansas 9608 Loiret Blvd. Lenexa, KS 66219 Phone (913)599-5665	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: QC Sheets	Radium 226	Radium 228 and combined										LAB USE ONLY
1	MW-8-110325	PS	11/3/2025 11:45	60485391001	Water	2						X	X	X										001
2																								
3																								
4																								
5																								

Transfers	Released By	Date/Time	Received By	Date/Time
1	Stanley B Pace	11.6.25 1700	[signature]	11/7/25 9:10
2				
3				

Comments: LOCATION: 60-R28-S3

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# : 30824368
30824368

WO# : 30824368

PM: CMC Due Date: 12/02/25
CLIENT: PACE_60_LEKS

DC#_Title: ENV-FRM-GBUR-0088 v09_Sam Greensburg

Effective Date: 06/24/2025

Client Name: Pace KS **Project #:**

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other

Tracking Number: 4830 9808 6149

Initial / Date

Examined By: ES 11/7/25
Labeled By: ES 11/7/25
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

pH paper Lot# 6503010 **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 dechlorination			/	14:
Filtered volume received for dissolved tests: **Cr6+, Orthophosphate, DOC, Metals**			/	15:
All containers checked for preservation:	/			16.
exceptions: VOA, coliform, TOC, O&G, TOX, LL Hg, Radon, non-aqueous matrix				pH < 2
All containers meet method preservation requirements:	/			Initial when completed ES / 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 ES / Date: 11/7/25 / 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.

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Test:	Ra-226
Analyst:	DSO
Date:	11/10/2025
Batch ID:	88052
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3819076
MB concentration:	-0.038
M/B 2 Sigma CSU:	0.173
MB MDC:	0.351
MB Numerical Performance Indicator:	-0.43
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS88052	LCSD88052
Count Date:	11/26/2025	11/26/2025
Spike I.D.:	25-038	25-038
Spike Concentration (pCi/mL):	31.874	31.874
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.663	0.653
Target Conc. (pCi/L, g, F):	4.811	4.883
Uncertainty (Calculated):	0.226	0.229
Result (pCi/L, g, F):	3.831	4.945
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.967	1.162
Numerical Performance Indicator:	-1.94	0.10
Percent Recovery:	79.62%	101.28%
Status vs Numerical Indicator:	Pass	Pass
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	133%	133%
Lower % Recovery Limits:	73%	73%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Sample I.D.:	LCS88052	
Duplicate Sample I.D.	LCSD88052	
Sample Result (pCi/L, g, F):	3.831	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.967	
Sample Duplicate Result (pCi/L, g, F):	4.945	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.162	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	-1.445	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	23.95%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	32%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the RL.

Comments:

Lml 11/26/25

DO 11/26/25

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Test: Ra-228
Analyst: JJS1
Date: 11/17/2025
Worklist: 88053
Matrix: WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3819079
MB concentration:	0.745
M/B 2 Sigma CSU:	0.434
MB MDC:	0.810
MB Numerical Performance Indicator:	3.36
MB Status vs Numerical Indicator:	Fail*
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS88053	LCSD88053
Count Date:	11/21/2025	11/21/2025
Spike I.D.:	23-043	23-043
Decay Corrected Spike Concentration (pCi/mL):	30.594	30.594
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.819	0.818
Target Conc. (pCi/L, g, F):	3.736	3.740
Uncertainty (Calculated):	0.183	0.183
Result (pCi/L, g, F):	4.020	4.382
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.993	1.110
Numerical Performance Indicator:	0.55	1.12
Percent Recovery:	107.58%	117.14%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS88053	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD88053	
Sample Result (pCi/L, g, F):	4.020	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.993	
Sample Duplicate Result (pCi/L, g, F):	4.382	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.110	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	-0.476	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	8.51%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	36%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:
~~*If the lowest activity sample in this batch is greater than ten times the blank value, the blank is acceptable; otherwise this batch must be re-prepped.~~ MB activity < MDC, Pass

11/25/25

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

November 18, 2025

Jake Humphrey
Evergy, Inc.
818 S Kansas Avenue
Topeka, KS 66612

RE: Project: TEC BASA App IV
Pace Project No.: 60485392

Dear Jake Humphrey:

Enclosed are the analytical results for sample(s) received by the laboratory on November 04, 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,

Alice Spiller

Alice Spiller
alice.spiller@pacelabs.com
(913)599-5665
PM Lab Management

Enclosures

cc: Jordan Eichman, Haley & Aldrich, Inc.
Samantha Kaney, Haley & Aldrich
Melanie Satanek, Haley & Aldrich, Inc.
Adriana Sosa, Haley & Aldrich, Inc.
Nick Williams, Haley Aldrich

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CERTIFICATIONS

Project: TEC BASA App IV
Pace Project No.: 60485392

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

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Lenexa, KS 66219
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SAMPLE SUMMARY

Project: TEC BASA App IV
Pace Project No.: 60485392

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60485392001	**MW-8-110325**	Water	11/03/25 11:45	11/04/25 17:17

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: TEC BASA App IV
Pace Project No.: 60485392

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60485392001	**MW-8-110325**	EPA 6010	ARMN	1	PASI-K
		EPA 200.8	JGP	5	PASI-K

PASI-K = Pace Analytical Services - Kansas City

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PROJECT NARRATIVE

Project: TEC BASA App IV
Pace Project No.: 60485392

Method: **EPA 6010**
Description: 6010 MET ICP
Client: Evergy_Haley & Aldrich
Date: November 18, 2025

General Information:
1 sample was analyzed for EPA 6010 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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Lenexa, KS 66219
(913)599-5665

PROJECT NARRATIVE

Project: TEC BASA App IV
Pace Project No.: 60485392

Method: **EPA 200.8**
Description: 200.8 MET ICPMS
Client: Evergy_Haley & Aldrich
Date: November 18, 2025

General Information:
1 sample was analyzed for EPA 200.8 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 200.8 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: TEC BASA App IV
Pace Project No.: 60485392

Sample: MW-8-110325 **Lab ID: 60485392001** Collected: 11/03/25 11:45 Received: 11/04/25 17:17 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Kansas City							
Lithium, Total Recoverable	**0.023**	mg/L	0.010	1	11/07/25 07:03	11/14/25 12:02	7439-93-2	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City							
Arsenic, Total Recoverable	**0.0027**	mg/L	0.0010	1	11/11/25 09:05	11/12/25 11:30	7440-38-2	
Barium, Total Recoverable	**0.074**	mg/L	0.0010	1	11/11/25 09:05	11/12/25 11:30	7440-39-3	
Chromium, Total Recoverable	**0.011**	mg/L	0.0010	1	11/11/25 09:05	11/12/25 11:30	7440-47-3	
Cobalt, Total Recoverable	**0.0024**	mg/L	0.0010	1	11/11/25 09:05	11/12/25 11:30	7440-48-4	
Lead, Total Recoverable	**0.0028**	mg/L	0.0010	1	11/11/25 09:05	11/12/25 11:30	7439-92-1	

REPORT OF LABORATORY ANALYSIS

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(913)599-5665

QUALITY CONTROL DATA

Project: TEC BASA App IV
Pace Project No.: 60485392

QC Batch: 954966
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: 60485392001

METHOD BLANK: 3784895 Matrix: Water
Associated Lab Samples: 60485392001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/L	<0.0010	0.0010	11/12/25 11:25	
Barium	mg/L	<0.0010	0.0010	11/12/25 11:25	
Chromium	mg/L	<0.0010	0.0010	11/12/25 11:25	
Cobalt	mg/L	<0.0010	0.0010	11/12/25 11:25	
Lead	mg/L	<0.0010	0.0010	11/12/25 11:25	

LABORATORY CONTROL SAMPLE: 3784896

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	0.04	0.038	95	85-115	
Barium	mg/L	0.04	0.039	97	85-115	
Chromium	mg/L	0.04	0.039	96	85-115	
Cobalt	mg/L	0.04	0.039	97	85-115	
Lead	mg/L	0.04	0.039	98	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3784897 3784898

Parameter	Units	60485392001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/L	0.0027	0.04	0.04	0.040	0.040	93	94	70-130	1	20	
Barium	mg/L	0.074	0.04	0.04	0.11	0.11	86	93	70-130	3	20	
Chromium	mg/L	0.011	0.04	0.04	0.044	0.045	82	84	70-130	2	20	
Cobalt	mg/L	0.0024	0.04	0.04	0.038	0.039	89	90	70-130	2	20	
Lead	mg/L	0.0028	0.04	0.04	0.042	0.043	98	100	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

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QUALITY CONTROL DATA

Project: TEC BASA App IV
Pace Project No.: 60485392

QC Batch: 954415
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60485392001

METHOD BLANK: 3782717 Matrix: Water
Associated Lab Samples: 60485392001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lithium	mg/L	<0.010	0.010	11/14/25 11:39	

LABORATORY CONTROL SAMPLE: 3782718

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lithium	mg/L	1	1.0	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3782719 3782720

Parameter	Units	60485378001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lithium	mg/L	0.032	1	1	1.0	1.1	100	102	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.

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QUALIFIERS

Project: TEC BASA App IV
Pace Project No.: 60485392

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.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: TEC BASA App IV
Pace Project No.: 60485392

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60485392001	**MW-8-110325**	EPA 3010	954415	EPA 6010	954629
60485392001	**MW-8-110325**	EPA 200.8	954966	EPA 200.8	955052

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WO# : 60485392

60485392

Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-LENE-0009_Sample Co		
	Revision: 3	Effective Date: 09/22/2025	Issued By: Lenexa

Client Name: Everay Haley ! Aldrich

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** 0.7 **Corr. Factor** 0.0 **Corrected** 0.7

Date and initials of person examining contents: PV 11/5/25

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

WO# : 60485392

PM: AS **Due Date: 11/19/25**

CLIENT: Evergy_Haley

Company Name:	Evergy_Haley & Aldrich	Contact/Report To:	Jake Humphrey
Street Address:	818 S Kansas Avenue Topeka, KS 66612	Phone #:	(913)634-0605
		E-Mail:	jake.humphrey@evergy.com
		Cc E-Mail:	
Customer Project #:			
Project Name:	TEC BASA App IV	Invoice To:	Tecumseh Center
		Invoice E-Mail:	apinvoicing@evergy.com
Site Collection Info/Facility ID (as applicable):	Tecumseh Energy Center	Purchase Order # (if applicable):	WSTR-2000094802
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [X] CT [ ] ET

County / State origin of sample(s): Kansas

Data Deliverables:
[ ] Level II [ ] Level III [ ] Level IV
[ ] EQUIS
[ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [ ] Yes [X] No

Rush (Pre-approval required):
[ ] Same Day [ ] 1 Day [ ] 2 Day [ ] 3 Day [ ] Other _____

DW PWSID # or WW Permit # as applicable: NA

Date Results Requested:

Field Filtered (if applicable): [ ] Yes [X] 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	200.8/6010 As,Ba,Cr,Co,Pb,Li	Sample Comment
MW-8-110325	GW	Grab	-	-	11/3/2025	1145	1	-	-	X	

Specify Container Size **: 3

Identify Container Preservative Type***: 2

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: Alice Spiller
AcctNum / Client ID:
Table #:
Profile / Template: 16502
Prelog / Bottle Ord. ID: EZ 3315626

Preservation non-conformance identified for sample.

Additional Instructions from Pace®:

Collected By: (Printed Name) Mikala Postlewait

Signature: Mikala Postlewait

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)	On Ice:
	T301			0.7	

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
Mikala Postlewait / SCS	11/04/2025 / 15:00	JAPack	11-4-25 1717	
			0P 11-4	Delivered by: [ ] In- Person [ ] Courier CL [ ] 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: Evergy Haley & Aldrich Profile/EZ #: 3315626

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																						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: 6048539?

ATTACHMENT 2-5
Baseline Laboratory Analytical Reports

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

February 23, 2024

Jake Humphrey
Evergy, Inc.
818 S Kansas Avenue
Topeka, KS 66612

RE: Project: TEC BASA CCR-Revised Report
Pace Project No.: 60444029

Dear Jake Humphrey:

Enclosed are the analytical results for sample(s) received by the laboratory on December 14, 2023. 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

REVISED to include additional data from original analysis.

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

Sincerely,

Alice Spiller

Alice Spiller
alice.spiller@pacelabs.com
(913)599-5665
PM Lab Management

Enclosures

cc: Shelly Gomez, Evergy
Laura Hines, Evergy, Inc.
Shannon Hughes, Evergy
Adam Irvin, Evergy
Samantha Kaney, Haley & Aldrich
Melanie Satanek, Haley Aldrich
Adriana Sosa, Haley & Aldrich, Inc.
Andrew Watson, Haley & Aldrich

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CERTIFICATIONS

Project: TEC BASA CCR-Revised Report
Pace Project No.: 60444029

Pace Analytical Services Kansas

9608 Loiret Boulevard, Lenexa, KS 66219
Missouri Inorganic Drinking Water Certification #: 10090
Arkansas Drinking Water
Arkansas Certification #: 88-00679
Illinois Certification #: 2000302023-5
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212023-1
Oklahoma Certification #: 2022-057
Florida: Cert E871149 SEKS WET
Texas Certification #: T104704407-23-17
Utah Certification #: KS000212022-12
Illinois Certification #: 004592
Kansas Field Laboratory Accreditation: # E-92587
Missouri SEKS Micro Certification: 10070

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SAMPLE SUMMARY

Project: TEC BASA CCR-Revised Report
Pace Project No.: 60444029

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60444029001	**MW-7-121423**	Water	12/14/23 12:55	12/14/23 16:20
60444029002	**MW-8-121423**	Water	12/14/23 11:20	12/14/23 16:20
60444029003	**MW-10-121423**	Water	12/14/23 09:40	12/14/23 16:20
60444029004	**MW-11A-121323**	Water	12/13/23 12:05	12/14/23 16:20
60444029005	**MW-12-121323**	Water	12/13/23 14:10	12/14/23 16:20
60444029006	**MW-13-121323**	Water	12/13/23 15:40	12/14/23 16:20
60444029007	**MW-14-121323**	Water	12/13/23 16:50	12/14/23 16:20
60444029008	**TEC-BASA-DUP-121323**	Water	12/13/23 00:00	12/14/23 16:20

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: TEC BASA CCR-Revised Report
Pace Project No.: 60444029

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60444029001	**MW-7-121423**	EPA 200.7	MA1	13	PASI-K
		EPA 200.7	JXD	4	PASI-K
		EPA 6010	MA1	1	PASI-K
		EPA 200.8	JGP	7	PASI-K
		EPA 200.8	JGP	2	PASI-K
		EPA 245.1	JXD	1	PASI-K
		SM 2320B	BMT	3	PASI-K
		SM 2540C	ZVF	1	PASI-K
		SM 3500-Fe B#4	ZVF	1	PASI-K
		SM 4500-H+B	MLD	1	PASI-K
		EPA 300.0	RKA	3	PASI-K
		EPA 353.2	BMT	3	PASI-K
		EPA 365.4	ECF	1	PASI-K
		SM 5310C	BMT	1	PASI-K
		SM 5310C	BMT	1	PASI-K
60444029002	**MW-8-121423**	EPA 200.7	MA1	13	PASI-K
		EPA 200.7	JXD	4	PASI-K
		EPA 6010	MA1	1	PASI-K
		EPA 200.8	JGP	7	PASI-K
		EPA 200.8	JGP	2	PASI-K
		EPA 245.1	JXD	1	PASI-K
		SM 2320B	BMT	3	PASI-K
		SM 2540C	ZVF	1	PASI-K
		SM 3500-Fe B#4	ZVF	1	PASI-K
		SM 4500-H+B	MLD	1	PASI-K
		EPA 300.0	RKA	3	PASI-K
		EPA 353.2	BMT	3	PASI-K
		EPA 365.4	ECF	1	PASI-K
		SM 5310C	BMT	1	PASI-K
		SM 5310C	BMT	1	PASI-K
60444029003	**MW-10-121423**	EPA 200.7	MA1	13	PASI-K
		EPA 200.7	JXD	4	PASI-K
		EPA 6010	MA1	1	PASI-K
		EPA 200.8	JGP	7	PASI-K
		EPA 200.8	JGP	2	PASI-K
		EPA 245.1	JXD	1	PASI-K
		SM 2320B	BMT	3	PASI-K

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SAMPLE ANALYTE COUNT

Project: TEC BASA CCR-Revised Report
Pace Project No.: 60444029

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 2540C	ZVF	1	PASI-K
		SM 3500-Fe B#4	ZVF	1	PASI-K
		SM 4500-H+B	MLD	1	PASI-K
		EPA 300.0	RKA	3	PASI-K
		EPA 353.2	BMT	3	PASI-K
		EPA 365.4	ECF	1	PASI-K
		SM 5310C	BMT	1	PASI-K
		SM 5310C	BMT	1	PASI-K
60444029004	**MW-11A-121323**	EPA 200.7	MA1	13	PASI-K
		EPA 200.7	JXD	4	PASI-K
		EPA 6010	MA1	1	PASI-K
		EPA 200.8	JGP	7	PASI-K
		EPA 200.8	JGP	2	PASI-K
		EPA 245.1	JXD	1	PASI-K
		SM 2320B	BMT	3	PASI-K
		SM 2540C	ZVF	1	PASI-K
		SM 3500-Fe B#4	ZVF	1	PASI-K
		SM 4500-H+B	MLD	1	PASI-K
		EPA 300.0	RKA	3	PASI-K
		EPA 353.2	BMT	3	PASI-K
		EPA 365.4	ECF	1	PASI-K
		SM 5310C	BMT	1	PASI-K
		SM 5310C	BMT	1	PASI-K
60444029005	**MW-12-121323**	EPA 200.7	MA1	13	PASI-K
		EPA 200.7	JXD	4	PASI-K
		EPA 6010	MA1	1	PASI-K
		EPA 200.8	JGP	7	PASI-K
		EPA 200.8	JGP	2	PASI-K
		EPA 245.1	JXD	1	PASI-K
		SM 2320B	BMT	3	PASI-K
		SM 2540C	ZVF	1	PASI-K
		SM 3500-Fe B#4	ZVF	1	PASI-K
		SM 4500-H+B	MLD	1	PASI-K
		EPA 300.0	RKA	3	PASI-K
		EPA 353.2	BMT	3	PASI-K
		EPA 365.4	ECF	1	PASI-K
		SM 5310C	BMT	1	PASI-K

REPORT OF LABORATORY ANALYSIS

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(913)599-5665

SAMPLE ANALYTE COUNT

Project: TEC BASA CCR-Revised Report
Pace Project No.: 60444029

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 5310C	BMT	1	PASI-K
60444029006	**MW-13-121323**	EPA 200.7	MA1	13	PASI-K
		EPA 200.7	JXD	4	PASI-K
		EPA 6010	MA1	1	PASI-K
		EPA 200.8	JGP	7	PASI-K
		EPA 200.8	JGP	2	PASI-K
		EPA 245.1	JXD	1	PASI-K
		SM 2320B	BMT	3	PASI-K
		SM 2540C	ZVF	1	PASI-K
		SM 3500-Fe B#4	ZVF	1	PASI-K
		SM 4500-H+B	MLD	1	PASI-K
		EPA 300.0	RKA	3	PASI-K
		EPA 353.2	BMT	3	PASI-K
		EPA 365.4	ECF	1	PASI-K
		SM 5310C	BMT	1	PASI-K
		SM 5310C	BMT	1	PASI-K
60444029007	**MW-14-121323**	EPA 200.7	MA1	13	PASI-K
		EPA 200.7	JXD	4	PASI-K
		EPA 6010	MA1	1	PASI-K
		EPA 200.8	JGP	7	PASI-K
		EPA 200.8	JGP	2	PASI-K
		EPA 245.1	JXD	1	PASI-K
		SM 2320B	BMT	3	PASI-K
		SM 2540C	ZVF	1	PASI-K
		SM 3500-Fe B#4	ZVF	1	PASI-K
		SM 4500-H+B	MLD	1	PASI-K
		EPA 300.0	RKA	3	PASI-K
		EPA 353.2	BMT	3	PASI-K
		EPA 365.4	ECF	1	PASI-K
		SM 5310C	BMT	1	PASI-K
		SM 5310C	BMT	1	PASI-K
60444029008	**TEC-BASA-DUP-121323**	EPA 200.7	MA1	13	PASI-K
		EPA 200.7	JXD	4	PASI-K
		EPA 6010	MA1	1	PASI-K
		EPA 200.8	JGP	7	PASI-K
		EPA 200.8	JGP	2	PASI-K
		EPA 245.1	JXD	1	PASI-K

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SAMPLE ANALYTE COUNT

Project: TEC BASA CCR-Revised Report
Pace Project No.: 60444029

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 2320B	BMT	3	PASI-K
		SM 2540C	ZVF	1	PASI-K
		SM 3500-Fe B#4	ZVF	1	PASI-K
		SM 4500-H+B	MLD	1	PASI-K
		EPA 300.0	RKA	3	PASI-K
		EPA 353.2	BMT	3	PASI-K
		EPA 365.4	ECF	1	PASI-K
		SM 5310C	BMT	1	PASI-K
		SM 5310C	BMT	1	PASI-K

PASI-K = Pace Analytical Services - Kansas City

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PROJECT NARRATIVE

Project: TEC BASA CCR-Revised Report
Pace Project No.: 60444029

Method: **EPA 200.7**
Description: 200.7 Metals, Total
Client: Evergy Kansas Central, Inc.
Date: February 23, 2024

General Information:
8 samples were analyzed for EPA 200.7 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 200.7 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 878048

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60444029001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 3478029)
  - Calcium
  - Iron
  - Magnesium
  - Manganese
  - Sodium
- MSD (Lab ID: 3478030)
  - Aluminum
  - Calcium
  - Iron
  - Magnesium
  - Manganese
  - Sodium

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: TEC BASA CCR-Revised Report
Pace Project No.: 60444029

Method: **EPA 200.7**
Description: 200.7 Metals, Dissolved (LF)
Client: Evergy Kansas Central, Inc.
Date: February 23, 2024

General Information:
8 samples were analyzed for EPA 200.7 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 200.7 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA CCR-Revised Report
Pace Project No.: 60444029

Method: **EPA 6010**
Description: 6010 MET ICP
Client: Evergy Kansas Central, Inc.
Date: February 23, 2024

General Information:
8 samples were analyzed for EPA 6010 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA CCR-Revised Report
Pace Project No.: 60444029

Method: **EPA 200.8**
Description: 200.8 MET ICPMS
Client: Evergy Kansas Central, Inc.
Date: February 23, 2024

General Information:
8 samples were analyzed for EPA 200.8 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 200.8 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: 877673

D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

- MW-10-121423 (Lab ID: 60444029003)
  - Cadmium, Total Recoverable
  - Antimony, Total Recoverable
  - Selenium, Total Recoverable
  - Thallium, Total Recoverable
- MW-12-121323 (Lab ID: 60444029005)
  - Arsenic, Total Recoverable
  - Cadmium, Total Recoverable
  - Antimony, Total Recoverable
  - Selenium, Total Recoverable

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PROJECT NARRATIVE

Project: TEC BASA CCR-Revised Report
Pace Project No.: 60444029

Method: **EPA 200.8**
Description: 200.8 MET ICPMS
Client: Evergy Kansas Central, Inc.
Date: February 23, 2024

Analyte Comments:

QC Batch: 877673

D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

- MW-12-121323 (Lab ID: 60444029005)
  - Thallium, Total Recoverable
- MW-13-121323 (Lab ID: 60444029006)
  - Cadmium, Total Recoverable
  - Cobalt, Total Recoverable
  - Antimony, Total Recoverable
  - Selenium, Total Recoverable
  - Thallium, Total Recoverable
- MW-8-121423 (Lab ID: 60444029002)
  - Arsenic, Total Recoverable
  - Cadmium, Total Recoverable
  - Cobalt, Total Recoverable
  - Antimony, Total Recoverable
  - Selenium, Total Recoverable
  - Thallium, Total Recoverable

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PROJECT NARRATIVE

Project: TEC BASA CCR-Revised Report
Pace Project No.: 60444029

Method: **EPA 200.8**
Description: 200.8 ICPMS, Dissolved (LF)
Client: Evergy Kansas Central, Inc.
Date: February 23, 2024

General Information:
8 samples were analyzed for EPA 200.8 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 200.8 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA CCR-Revised Report
Pace Project No.: 60444029

Method: **EPA 245.1**
Description: 245.1 Mercury
Client: Evergy Kansas Central, Inc.
Date: February 23, 2024

General Information:
8 samples were analyzed for EPA 245.1 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 245.1 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA CCR-Revised Report
Pace Project No.: 60444029

Method: **SM 2320B**
Description: 2320B Alkalinity
Client: Evergy Kansas Central, Inc.
Date: February 23, 2024

General Information:
8 samples were analyzed for SM 2320B by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA CCR-Revised Report
Pace Project No.: 60444029

Method: **SM 2540C**
Description: 2540C Total Dissolved Solids
Client: Evergy Kansas Central, Inc.
Date: February 23, 2024

General Information:
8 samples were analyzed for SM 2540C by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

QC Batch: 877858

D6: The precision between the sample and sample duplicate exceeded laboratory control limits.

- DUP (Lab ID: 3477211)
  - Total Dissolved Solids

Additional Comments:

Analyte Comments:

QC Batch: 877856

1e: Achieving a constant weight was not met for this sample.

- DUP (Lab ID: 3477339)
  - Total Dissolved Solids
- MW-13-121323 (Lab ID: 60444029006)
  - Total Dissolved Solids

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PROJECT NARRATIVE

Project: TEC BASA CCR-Revised Report
Pace Project No.: 60444029

Method: **SM 3500-Fe B#4**
Description: Iron, Ferrous
Client: Evergy Kansas Central, Inc.
Date: February 23, 2024

General Information:
8 samples were analyzed for SM 3500-Fe B#4 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

H6: Analysis initiated outside of the 15 minute EPA required holding time.
- MW-10-121423 (Lab ID: 60444029003)
- MW-11A-121323 (Lab ID: 60444029004)
- MW-12-121323 (Lab ID: 60444029005)
- MW-13-121323 (Lab ID: 60444029006)
- MW-14-121323 (Lab ID: 60444029007)
- MW-7-121423 (Lab ID: 60444029001)
- MW-8-121423 (Lab ID: 60444029002)
- TEC-BASA-DUP-121323 (Lab ID: 60444029008)

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

QC Batch: 879921

L1: Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
- LCS (Lab ID: 3484529)
  - Iron, Ferrous

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA CCR-Revised Report
Pace Project No.: 60444029

Method: **SM 4500-H+B**
Description: 4500H+ pH, Electrometric
Client: Evergy Kansas Central, Inc.
Date: February 23, 2024

General Information:
8 samples were analyzed for SM 4500-H+B by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

H6: Analysis initiated outside of the 15 minute EPA required holding time.
- MW-10-121423 (Lab ID: 60444029003)
- MW-11A-121323 (Lab ID: 60444029004)
- MW-12-121323 (Lab ID: 60444029005)
- MW-13-121323 (Lab ID: 60444029006)
- MW-14-121323 (Lab ID: 60444029007)
- MW-7-121423 (Lab ID: 60444029001)
- MW-8-121423 (Lab ID: 60444029002)
- TEC-BASA-DUP-121323 (Lab ID: 60444029008)

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA CCR-Revised Report
Pace Project No.: 60444029

Method: **EPA 300.0**
Description: 300.0 IC Anions 28 Days
Client: Evergy Kansas Central, Inc.
Date: February 23, 2024

General Information:
8 samples were analyzed for EPA 300.0 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 878457

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60443947002,60444139001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 3479476)
  - Chloride

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA CCR-Revised Report
Pace Project No.: 60444029

Method: **EPA 353.2**
Description: 353.2 Nitrogen, NO2/NO3 unpres
Client: Evergy Kansas Central, Inc.
Date: February 23, 2024

General Information:
8 samples were analyzed for EPA 353.2 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

H1: Analysis conducted outside the EPA method holding time.
- TEC-BASA-DUP-121323 (Lab ID: 60444029008)

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 877320

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60444029008

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
- MS (Lab ID: 3474805)
  - Nitrogen, NO2 plus NO3

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA CCR-Revised Report
Pace Project No.: 60444029

Method: **EPA 365.4**
Description: 365.4 Total Phosphorus
Client: Evergy Kansas Central, Inc.
Date: February 23, 2024

General Information:
8 samples were analyzed for EPA 365.4 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 365.4 with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 879241

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60444002001,60444139001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 3482075)
  - Phosphorus
- MS (Lab ID: 3482077)
  - Phosphorus

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA CCR-Revised Report
Pace Project No.: 60444029

Method: **SM 5310C**
Description: 5310C TOC
Client: Evergy Kansas Central, Inc.
Date: February 23, 2024

General Information:
8 samples were analyzed for SM 5310C by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA CCR-Revised Report
Pace Project No.: 60444029

Method: **SM 5310C**
Description: 5310C Dissolved Organic Carbon
Client: Evergy Kansas Central, Inc.
Date: February 23, 2024

General Information:
8 samples were analyzed for SM 5310C by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: TEC BASA CCR-Revised Report
Pace Project No.: 60444029

Sample: MW-7-121423 **Lab ID: 60444029001** Collected: 12/14/23 12:55 Received: 12/14/23 16:20 Matrix: Water

Parameters	Results	Units	Report Limit	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							
Aluminum, Total Recoverable	**0.62**	mg/L	0.075	1	12/21/23 16:16	12/29/23 14:29	7429-90-5	M1
Barium, Total Recoverable	**0.063**	mg/L	0.0050	1	12/21/23 16:16	12/29/23 14:29	7440-39-3	
Beryllium, Total Recoverable	**<0.0010**	mg/L	0.0010	1	12/21/23 16:16	12/29/23 14:29	7440-41-7	
Boron, Total Recoverable	**0.62**	mg/L	0.10	1	12/21/23 16:16	12/29/23 14:29	7440-42-8	
Calcium, Total Recoverable	**115**	mg/L	0.20	1	12/21/23 16:16	12/29/23 14:29	7440-70-2	M1
Chromium, Total Recoverable	**<0.0050**	mg/L	0.0050	1	12/21/23 16:16	12/29/23 14:29	7440-47-3	
Iron, Total Recoverable	**0.87**	mg/L	0.050	1	12/21/23 16:16	12/29/23 14:29	7439-89-6	M1
Lead, Total Recoverable	**<0.010**	mg/L	0.010	1	12/21/23 16:16	12/29/23 14:29	7439-92-1	
Magnesium, Total Recoverable	**19.8**	mg/L	0.050	1	12/21/23 16:16	12/29/23 14:29	7439-95-4	M1
Manganese, Total Recoverable	**0.24**	mg/L	0.0050	1	12/21/23 16:16	12/29/23 14:29	7439-96-5	M1
Potassium, Total Recoverable	**3.2**	mg/L	0.50	1	12/21/23 16:16	12/29/23 14:29	7440-09-7	
Sodium, Total Recoverable	**228**	mg/L	0.50	1	12/21/23 16:16	12/29/23 14:29	7440-23-5	M1
Total Hardness by 2340B, Total Recoverable	**370**	mg/L	0.50	1	12/21/23 16:16	12/29/23 14:29		
200.7 Metals, Dissolved (LF)	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City							
Aluminum, Dissolved	**<0.075**	mg/L	0.075	1	12/19/23 16:10	12/22/23 15:24	7429-90-5	
Iron, Dissolved	**<0.050**	mg/L	0.050	1	12/19/23 16:10	12/22/23 15:24	7439-89-6	
Magnesium, Dissolved	**18.8**	mg/L	0.050	1	12/19/23 16:10	12/22/23 15:24	7439-95-4	
Manganese, Dissolved	**0.098**	mg/L	0.0050	1	12/19/23 16:10	12/22/23 15:24	7439-96-5	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Kansas City							
Lithium, Total Recoverable	**0.035**	mg/L	0.010	1	12/21/23 14:16	12/29/23 13:09	7439-93-2	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City							
Antimony, Total Recoverable	**<0.0010**	mg/L	0.0010	1	12/20/23 08:44	01/03/24 13:18	7440-36-0	
Arsenic, Total Recoverable	**0.0020**	mg/L	0.0010	1	12/20/23 08:44	01/03/24 13:18	7440-38-2	
Cadmium, Total Recoverable	**<0.00050**	mg/L	0.00050	1	12/20/23 08:44	01/03/24 13:18	7440-43-9	
Cobalt, Total Recoverable	**0.0017**	mg/L	0.0010	1	12/20/23 08:44	01/03/24 13:18	7440-48-4	
Molybdenum, Total Recoverable	**0.019**	mg/L	0.0010	1	12/20/23 08:44	01/03/24 13:18	7439-98-7	
Selenium, Total Recoverable	**<0.0010**	mg/L	0.0010	1	12/20/23 08:44	01/03/24 13:18	7782-49-2	
Thallium, Total Recoverable	**<0.0010**	mg/L	0.0010	1	12/20/23 08:44	01/03/24 13:18	7440-28-0	
200.8 ICPMS, Dissolved (LF)	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City							
Arsenic, Dissolved	**0.0017**	mg/L	0.0010	1	12/20/23 11:46	01/03/24 14:50	7440-38-2	
Cobalt, Dissolved	**<0.0010**	mg/L	0.0010	1	12/20/23 11:46	01/03/24 14:50	7440-48-4	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Kansas City							
Mercury	**<0.20**	ug/L	0.20	1	12/29/23 12:19	01/03/24 15:54	7439-97-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TEC BASA CCR-Revised Report
Pace Project No.: 60444029

Sample: MW-7-121423 **Lab ID: 60444029001** Collected: 12/14/23 12:55 Received: 12/14/23 16:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B							
	Pace Analytical Services - Kansas City							
Alkalinity,Bicarbonate (CaCO3)	**369**	mg/L	20.0	1		12/27/23 10:28		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	20.0	1		12/27/23 10:28		
Alkalinity, Total as CaCO3	**369**	mg/L	20.0	1		12/27/23 10:28		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
	Pace Analytical Services - Kansas City							
Total Dissolved Solids	**958**	mg/L	20.0	1		12/20/23 15:49		
Iron, Ferrous	Analytical Method: SM 3500-Fe B#4							
	Pace Analytical Services - Kansas City							
Iron, Ferrous	**0.26**	mg/L	0.20	1		01/12/24 15:03	15438-31-0	H6
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
	Pace Analytical Services - Kansas City							
pH at 25 Degrees C	**7.3**	Std. Units	0.10	1		12/26/23 13:39		H6
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
	Pace Analytical Services - Kansas City							
Chloride	**195**	mg/L	50.0	50		12/28/23 14:35	16887-00-6	
Fluoride	**<0.20**	mg/L	0.20	1		12/27/23 22:29	16984-48-8	
Sulfate	**230**	mg/L	50.0	50		12/28/23 14:35	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
	Pace Analytical Services - Kansas City							
Nitrogen, NO2 plus NO3	**<0.10**	mg/L	0.10	1		12/15/23 11:13		
Nitrogen, Nitrate	**<0.10**	mg/L	0.10	1		12/15/23 11:13	14797-55-8	
Nitrogen, Nitrite	**<0.10**	mg/L	0.10	1		12/15/23 11:13	14797-65-0	
365.4 Total Phosphorus	Analytical Method: EPA 365.4 Preparation Method: EPA 365.4							
	Pace Analytical Services - Kansas City							
Phosphorus	**0.40**	mg/L	0.10	1	01/04/24 10:51	01/04/24 14:07	7723-14-0	
5310C TOC	Analytical Method: SM 5310C							
	Pace Analytical Services - Kansas City							
Total Organic Carbon	**<1.0**	mg/L	1.0	1		12/27/23 15:44	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C							
	Pace Analytical Services - Kansas City							
Dissolved Organic Carbon	**<1.0**	mg/L	1.0	1		12/27/23 15:44		

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ANALYTICAL RESULTS

Project: TEC BASA CCR-Revised Report
Pace Project No.: 60444029

Sample: MW-8-121423 **Lab ID: 60444029002** Collected: 12/14/23 11:20 Received: 12/14/23 16:20 Matrix: Water

Parameters	Results	Units	Report Limit	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							
Aluminum, Total Recoverable	**18.1**	mg/L	0.075	1	12/21/23 16:16	12/29/23 14:36	7429-90-5	
Barium, Total Recoverable	**0.17**	mg/L	0.0050	1	12/21/23 16:16	12/29/23 14:36	7440-39-3	
Beryllium, Total Recoverable	**0.0016**	mg/L	0.0010	1	12/21/23 16:16	12/29/23 14:36	7440-41-7	
Boron, Total Recoverable	**1.2**	mg/L	0.10	1	12/21/23 16:16	12/29/23 14:36	7440-42-8	
Calcium, Total Recoverable	**179**	mg/L	0.20	1	12/21/23 16:16	12/29/23 14:36	7440-70-2	
Chromium, Total Recoverable	**0.023**	mg/L	0.0050	1	12/21/23 16:16	12/29/23 14:36	7440-47-3	
Iron, Total Recoverable	**25.5**	mg/L	0.050	1	12/21/23 16:16	12/29/23 14:36	7439-89-6	
Lead, Total Recoverable	**0.014**	mg/L	0.010	1	12/21/23 16:16	12/29/23 14:36	7439-92-1	
Magnesium, Total Recoverable	**19.3**	mg/L	0.050	1	12/21/23 16:16	12/29/23 14:36	7439-95-4	
Manganese, Total Recoverable	**0.77**	mg/L	0.0050	1	12/21/23 16:16	12/29/23 14:36	7439-96-5	
Potassium, Total Recoverable	**13.6**	mg/L	0.50	1	12/21/23 16:16	12/29/23 14:36	7440-09-7	
Sodium, Total Recoverable	**169**	mg/L	0.50	1	12/21/23 16:16	12/29/23 14:36	7440-23-5	
Total Hardness by 2340B, Total Recoverable	**525**	mg/L	0.50	1	12/21/23 16:16	12/29/23 14:36		
200.7 Metals, Dissolved (LF)	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City							
Aluminum, Dissolved	**<0.075**	mg/L	0.075	1	12/19/23 16:10	12/22/23 15:31	7429-90-5	
Iron, Dissolved	**<0.050**	mg/L	0.050	1	12/19/23 16:10	12/22/23 15:31	7439-89-6	
Magnesium, Dissolved	**15.0**	mg/L	0.050	1	12/19/23 16:10	12/22/23 15:31	7439-95-4	
Manganese, Dissolved	**0.61**	mg/L	0.0050	1	12/19/23 16:10	12/22/23 15:31	7439-96-5	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Kansas City							
Lithium, Total Recoverable	**0.030**	mg/L	0.010	1	12/21/23 14:16	12/29/23 13:15	7439-93-2	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City							
Antimony, Total Recoverable	**<0.010**	mg/L	0.010	10	12/20/23 08:44	01/03/24 13:27	7440-36-0	D3
Arsenic, Total Recoverable	**<0.010**	mg/L	0.010	10	12/20/23 08:44	01/03/24 13:27	7440-38-2	D3
Cadmium, Total Recoverable	**<0.0050**	mg/L	0.0050	10	12/20/23 08:44	01/03/24 13:27	7440-43-9	D3
Cobalt, Total Recoverable	**<0.010**	mg/L	0.010	10	12/20/23 08:44	01/03/24 13:27	7440-48-4	D3
Molybdenum, Total Recoverable	**0.043**	mg/L	0.010	10	12/20/23 08:44	01/03/24 13:27	7439-98-7	
Selenium, Total Recoverable	**<0.010**	mg/L	0.010	10	12/20/23 08:44	01/03/24 13:27	7782-49-2	D3
Thallium, Total Recoverable	**<0.010**	mg/L	0.010	10	12/20/23 08:44	01/03/24 13:27	7440-28-0	D3
200.8 ICPMS, Dissolved (LF)	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City							
Arsenic, Dissolved	**0.0012**	mg/L	0.0010	1	12/20/23 11:46	01/03/24 15:00	7440-38-2	
Cobalt, Dissolved	**<0.0010**	mg/L	0.0010	1	12/20/23 11:46	01/03/24 15:00	7440-48-4	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Kansas City							
Mercury	**<0.20**	ug/L	0.20	1	12/29/23 12:19	01/03/24 16:01	7439-97-6	

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ANALYTICAL RESULTS

Project: TEC BASA CCR-Revised Report
Pace Project No.: 60444029

Sample: MW-8-121423 **Lab ID: 60444029002** Collected: 12/14/23 11:20 Received: 12/14/23 16:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B							
	Pace Analytical Services - Kansas City							
Alkalinity,Bicarbonate (CaCO3)	**46.9**	mg/L	20.0	1		12/27/23 10:40		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	20.0	1		12/27/23 10:40		
Alkalinity, Total as CaCO3	**46.9**	mg/L	20.0	1		12/27/23 10:40		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
	Pace Analytical Services - Kansas City							
Total Dissolved Solids	**1210**	mg/L	20.0	1		12/20/23 15:49		
Iron, Ferrous	Analytical Method: SM 3500-Fe B#4							
	Pace Analytical Services - Kansas City							
Iron, Ferrous	**<0.20**	mg/L	0.20	1		01/12/24 15:03	15438-31-0	H6
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
	Pace Analytical Services - Kansas City							
pH at 25 Degrees C	**7.1**	Std. Units	0.10	1		12/26/23 13:41		H6
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
	Pace Analytical Services - Kansas City							
Chloride	**274**	mg/L	100	100		12/27/23 23:04	16887-00-6	
Fluoride	**<0.20**	mg/L	0.20	1		12/27/23 22:52	16984-48-8	
Sulfate	**724**	mg/L	100	100		12/27/23 23:04	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
	Pace Analytical Services - Kansas City							
Nitrogen, NO2 plus NO3	**0.25**	mg/L	0.10	1		12/15/23 11:12		
Nitrogen, Nitrate	**0.25**	mg/L	0.10	1		12/15/23 11:12	14797-55-8	
Nitrogen, Nitrite	**<0.10**	mg/L	0.10	1		12/15/23 11:12	14797-65-0	
365.4 Total Phosphorus	Analytical Method: EPA 365.4 Preparation Method: EPA 365.4							
	Pace Analytical Services - Kansas City							
Phosphorus	**0.74**	mg/L	0.10	1	01/04/24 10:51	01/04/24 14:08	7723-14-0	
5310C TOC	Analytical Method: SM 5310C							
	Pace Analytical Services - Kansas City							
Total Organic Carbon	**<1.0**	mg/L	1.0	1		12/27/23 16:15	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C							
	Pace Analytical Services - Kansas City							
Dissolved Organic Carbon	**<1.0**	mg/L	1.0	1		12/27/23 16:15		

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ANALYTICAL RESULTS

Project: TEC BASA CCR-Revised Report
Pace Project No.: 60444029

Sample: MW-10-121423 **Lab ID: 60444029003** Collected: 12/14/23 09:40 Received: 12/14/23 16:20 Matrix: Water

Parameters	Results	Units	Report Limit	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							
Aluminum, Total Recoverable	**1.4**	mg/L	0.075	1	12/21/23 16:16	12/29/23 14:38	7429-90-5	
Barium, Total Recoverable	**0.27**	mg/L	0.0050	1	12/21/23 16:16	12/29/23 14:38	7440-39-3	
Beryllium, Total Recoverable	**<0.0010**	mg/L	0.0010	1	12/21/23 16:16	12/29/23 14:38	7440-41-7	
Boron, Total Recoverable	**0.33**	mg/L	0.10	1	12/21/23 16:16	12/29/23 14:38	7440-42-8	
Calcium, Total Recoverable	**176**	mg/L	0.20	1	12/21/23 16:16	12/29/23 14:38	7440-70-2	
Chromium, Total Recoverable	**<0.0050**	mg/L	0.0050	1	12/21/23 16:16	12/29/23 14:38	7440-47-3	
Iron, Total Recoverable	**11.8**	mg/L	0.050	1	12/21/23 16:16	12/29/23 14:38	7439-89-6	
Lead, Total Recoverable	**<0.010**	mg/L	0.010	1	12/21/23 16:16	12/29/23 14:38	7439-92-1	
Magnesium, Total Recoverable	**34.5**	mg/L	0.050	1	12/21/23 16:16	12/29/23 14:38	7439-95-4	
Manganese, Total Recoverable	**6.9**	mg/L	0.0050	1	12/21/23 16:16	12/29/23 14:38	7439-96-5	
Potassium, Total Recoverable	**4.9**	mg/L	0.50	1	12/21/23 16:16	12/29/23 14:38	7440-09-7	
Sodium, Total Recoverable	**262**	mg/L	0.50	1	12/21/23 16:16	12/29/23 14:38	7440-23-5	
Total Hardness by 2340B, Total Recoverable	**581**	mg/L	0.50	1	12/21/23 16:16	12/29/23 14:38		
200.7 Metals, Dissolved (LF)	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City							
Aluminum, Dissolved	**<0.075**	mg/L	0.075	1	12/19/23 16:10	12/22/23 15:33	7429-90-5	
Iron, Dissolved	**0.19**	mg/L	0.050	1	12/19/23 16:10	12/22/23 15:33	7439-89-6	
Magnesium, Dissolved	**27.5**	mg/L	0.050	1	12/19/23 16:10	12/22/23 15:33	7439-95-4	
Manganese, Dissolved	**5.2**	mg/L	0.0050	1	12/19/23 16:10	12/22/23 15:33	7439-96-5	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Kansas City							
Lithium, Total Recoverable	**0.012**	mg/L	0.010	1	12/21/23 14:16	12/29/23 13:17	7439-93-2	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City							
Antimony, Total Recoverable	**<0.0030**	mg/L	0.0030	3	12/20/23 08:44	01/03/24 13:30	7440-36-0	D3
Arsenic, Total Recoverable	**0.042**	mg/L	0.0030	3	12/20/23 08:44	01/03/24 13:30	7440-38-2	
Cadmium, Total Recoverable	**<0.0015**	mg/L	0.0015	3	12/20/23 08:44	01/03/24 13:30	7440-43-9	D3
Cobalt, Total Recoverable	**0.011**	mg/L	0.0030	3	12/20/23 08:44	01/03/24 13:30	7440-48-4	
Molybdenum, Total Recoverable	**0.0061**	mg/L	0.0030	3	12/20/23 08:44	01/03/24 13:30	7439-98-7	
Selenium, Total Recoverable	**<0.0030**	mg/L	0.0030	3	12/20/23 08:44	01/03/24 13:30	7782-49-2	D3
Thallium, Total Recoverable	**<0.0030**	mg/L	0.0030	3	12/20/23 08:44	01/03/24 13:30	7440-28-0	D3
200.8 ICPMS, Dissolved (LF)	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City							
Arsenic, Dissolved	**0.037**	mg/L	0.0010	1	12/20/23 11:46	01/03/24 15:03	7440-38-2	
Cobalt, Dissolved	**0.0093**	mg/L	0.0010	1	12/20/23 11:46	01/03/24 15:03	7440-48-4	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Kansas City							
Mercury	**<0.20**	ug/L	0.20	1	12/29/23 12:19	01/03/24 16:03	7439-97-6	

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ANALYTICAL RESULTS

Project: TEC BASA CCR-Revised Report
Pace Project No.: 60444029

Sample: MW-10-121423 **Lab ID: 60444029003** Collected: 12/14/23 09:40 Received: 12/14/23 16:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B							
	Pace Analytical Services - Kansas City							
Alkalinity,Bicarbonate (CaCO3)	**484**	mg/L	20.0	1		12/27/23 10:45		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	20.0	1		12/27/23 10:45		
Alkalinity, Total as CaCO3	**484**	mg/L	20.0	1		12/27/23 10:45		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
	Pace Analytical Services - Kansas City							
Total Dissolved Solids	**1430**	mg/L	40.0	1		12/20/23 15:50		
Iron, Ferrous	Analytical Method: SM 3500-Fe B#4							
	Pace Analytical Services - Kansas City							
Iron, Ferrous	**0.29**	mg/L	0.20	1		01/12/24 15:03	15438-31-0	H6
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
	Pace Analytical Services - Kansas City							
pH at 25 Degrees C	**7.1**	Std. Units	0.10	1		12/26/23 13:42		H6
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
	Pace Analytical Services - Kansas City							
Chloride	**413**	mg/L	100	100		12/27/23 23:27	16887-00-6	
Fluoride	**0.31**	mg/L	0.20	1		12/27/23 23:15	16984-48-8	
Sulfate	**397**	mg/L	100	100		12/27/23 23:27	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
	Pace Analytical Services - Kansas City							
Nitrogen, NO2 plus NO3	**<0.10**	mg/L	0.10	1		12/15/23 11:11		
Nitrogen, Nitrate	**<0.10**	mg/L	0.10	1		12/15/23 11:11	14797-55-8	
Nitrogen, Nitrite	**<0.10**	mg/L	0.10	1		12/15/23 11:11	14797-65-0	
365.4 Total Phosphorus	Analytical Method: EPA 365.4 Preparation Method: EPA 365.4							
	Pace Analytical Services - Kansas City							
Phosphorus	**0.66**	mg/L	0.10	1	01/04/24 10:51	01/04/24 14:09	7723-14-0	
5310C TOC	Analytical Method: SM 5310C							
	Pace Analytical Services - Kansas City							
Total Organic Carbon	**2.0**	mg/L	1.0	1		12/27/23 16:30	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C							
	Pace Analytical Services - Kansas City							
Dissolved Organic Carbon	**2.0**	mg/L	1.0	1		12/27/23 16:30		

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ANALYTICAL RESULTS

Project: TEC BASA CCR-Revised Report
Pace Project No.: 60444029

Sample: MW-11A-121323 **Lab ID: 60444029004** Collected: 12/13/23 12:05 Received: 12/14/23 16:20 Matrix: Water

Parameters	Results	Units	Report Limit	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							
Aluminum, Total Recoverable	**0.40**	mg/L	0.075	1	12/21/23 16:16	12/29/23 14:41	7429-90-5	
Barium, Total Recoverable	**0.096**	mg/L	0.0050	1	12/21/23 16:16	12/29/23 14:41	7440-39-3	
Beryllium, Total Recoverable	**<0.0010**	mg/L	0.0010	1	12/21/23 16:16	12/29/23 14:41	7440-41-7	
Boron, Total Recoverable	**0.45**	mg/L	0.10	1	12/21/23 16:16	12/29/23 14:41	7440-42-8	
Calcium, Total Recoverable	**231**	mg/L	0.20	1	12/21/23 16:16	12/29/23 14:41	7440-70-2	
Chromium, Total Recoverable	**<0.0050**	mg/L	0.0050	1	12/21/23 16:16	12/29/23 14:41	7440-47-3	
Iron, Total Recoverable	**5.4**	mg/L	0.050	1	12/21/23 16:16	12/29/23 14:41	7439-89-6	
Lead, Total Recoverable	**<0.010**	mg/L	0.010	1	12/21/23 16:16	12/29/23 14:41	7439-92-1	
Magnesium, Total Recoverable	**44.5**	mg/L	0.050	1	12/21/23 16:16	12/29/23 14:41	7439-95-4	
Manganese, Total Recoverable	**1.1**	mg/L	0.0050	1	12/21/23 16:16	12/29/23 14:41	7439-96-5	
Potassium, Total Recoverable	**16.0**	mg/L	0.50	1	12/21/23 16:16	12/29/23 14:41	7440-09-7	
Sodium, Total Recoverable	**261**	mg/L	0.50	1	12/21/23 16:16	12/29/23 14:41	7440-23-5	
Total Hardness by 2340B, Total Recoverable	**759**	mg/L	0.50	1	12/21/23 16:16	12/29/23 14:41		
200.7 Metals, Dissolved (LF)	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City							
Aluminum, Dissolved	**<0.075**	mg/L	0.075	1	12/19/23 16:10	12/22/23 15:35	7429-90-5	
Iron, Dissolved	**0.065**	mg/L	0.050	1	12/19/23 16:10	12/22/23 15:35	7439-89-6	
Magnesium, Dissolved	**39.9**	mg/L	0.050	1	12/19/23 16:10	12/22/23 15:35	7439-95-4	
Manganese, Dissolved	**1.0**	mg/L	0.0050	1	12/19/23 16:10	12/22/23 15:35	7439-96-5	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Kansas City							
Lithium, Total Recoverable	**0.047**	mg/L	0.010	1	12/21/23 14:16	12/29/23 13:19	7439-93-2	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City							
Antimony, Total Recoverable	**<0.0010**	mg/L	0.0010	1	12/20/23 08:44	01/03/24 13:37	7440-36-0	
Arsenic, Total Recoverable	**0.0054**	mg/L	0.0010	1	12/20/23 08:44	01/03/24 13:37	7440-38-2	
Cadmium, Total Recoverable	**<0.00050**	mg/L	0.00050	1	12/20/23 08:44	01/03/24 13:37	7440-43-9	
Cobalt, Total Recoverable	**0.022**	mg/L	0.0010	1	12/20/23 08:44	01/03/24 13:37	7440-48-4	
Molybdenum, Total Recoverable	**0.0032**	mg/L	0.0010	1	12/20/23 08:44	01/03/24 13:37	7439-98-7	
Selenium, Total Recoverable	**<0.0010**	mg/L	0.0010	1	12/20/23 08:44	01/03/24 13:37	7782-49-2	
Thallium, Total Recoverable	**<0.0010**	mg/L	0.0010	1	12/20/23 08:44	01/03/24 13:37	7440-28-0	
200.8 ICPMS, Dissolved (LF)	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City							
Arsenic, Dissolved	**0.0049**	mg/L	0.0010	1	12/20/23 11:46	01/03/24 15:09	7440-38-2	
Cobalt, Dissolved	**0.020**	mg/L	0.0010	1	12/20/23 11:46	01/03/24 15:09	7440-48-4	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Kansas City							
Mercury	**<0.20**	ug/L	0.20	1	12/29/23 12:19	01/03/24 16:05	7439-97-6	

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ANALYTICAL RESULTS

Project: TEC BASA CCR-Revised Report
Pace Project No.: 60444029

Sample: MW-11A-121323 **Lab ID: 60444029004** Collected: 12/13/23 12:05 Received: 12/14/23 16:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B							
	Pace Analytical Services - Kansas City							
Alkalinity,Bicarbonate (CaCO3)	**403**	mg/L	20.0	1		12/26/23 12:01		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	20.0	1		12/26/23 12:01		
Alkalinity, Total as CaCO3	**403**	mg/L	20.0	1		12/26/23 12:01		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
	Pace Analytical Services - Kansas City							
Total Dissolved Solids	**1580**	mg/L	40.0	1		12/20/23 13:17		
Iron, Ferrous	Analytical Method: SM 3500-Fe B#4							
	Pace Analytical Services - Kansas City							
Iron, Ferrous	**<0.20**	mg/L	0.20	1		01/12/24 15:03	15438-31-0	H6
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
	Pace Analytical Services - Kansas City							
pH at 25 Degrees C	**7.1**	Std. Units	0.10	1		12/26/23 13:44		H6
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
	Pace Analytical Services - Kansas City							
Chloride	**383**	mg/L	100	100		12/28/23 00:13	16887-00-6	
Fluoride	**0.22**	mg/L	0.20	1		12/28/23 00:02	16984-48-8	
Sulfate	**410**	mg/L	100	100		12/28/23 00:13	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
	Pace Analytical Services - Kansas City							
Nitrogen, NO2 plus NO3	**3.9**	mg/L	0.10	1		12/15/23 11:04		
Nitrogen, Nitrate	**3.9**	mg/L	0.10	1		12/15/23 11:04	14797-55-8	
Nitrogen, Nitrite	**<0.10**	mg/L	0.10	1		12/15/23 11:04	14797-65-0	
365.4 Total Phosphorus	Analytical Method: EPA 365.4 Preparation Method: EPA 365.4							
	Pace Analytical Services - Kansas City							
Phosphorus	**<0.10**	mg/L	0.10	1	01/04/24 10:51	01/04/24 14:10	7723-14-0	
5310C TOC	Analytical Method: SM 5310C							
	Pace Analytical Services - Kansas City							
Total Organic Carbon	**1.1**	mg/L	1.0	1		12/27/23 17:32	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C							
	Pace Analytical Services - Kansas City							
Dissolved Organic Carbon	**1.1**	mg/L	1.0	1		12/27/23 17:32		

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ANALYTICAL RESULTS

Project: TEC BASA CCR-Revised Report
Pace Project No.: 60444029

Sample: MW-12-121323 **Lab ID: 60444029005** Collected: 12/13/23 14:10 Received: 12/14/23 16:20 Matrix: Water

Parameters	Results	Units	Report Limit	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							
Aluminum, Total Recoverable	**0.29**	mg/L	0.075	1	12/21/23 16:16	12/29/23 14:43	7429-90-5	
Barium, Total Recoverable	**0.12**	mg/L	0.0050	1	12/21/23 16:16	12/29/23 14:43	7440-39-3	
Beryllium, Total Recoverable	**<0.0010**	mg/L	0.0010	1	12/21/23 16:16	12/29/23 14:43	7440-41-7	
Boron, Total Recoverable	**0.54**	mg/L	0.10	1	12/21/23 16:16	12/29/23 14:43	7440-42-8	
Calcium, Total Recoverable	**199**	mg/L	0.20	1	12/21/23 16:16	12/29/23 14:43	7440-70-2	
Chromium, Total Recoverable	**<0.0050**	mg/L	0.0050	1	12/21/23 16:16	12/29/23 14:43	7440-47-3	
Iron, Total Recoverable	**2.3**	mg/L	0.050	1	12/21/23 16:16	12/29/23 14:43	7439-89-6	
Lead, Total Recoverable	**<0.010**	mg/L	0.010	1	12/21/23 16:16	12/29/23 14:43	7439-92-1	
Magnesium, Total Recoverable	**37.2**	mg/L	0.050	1	12/21/23 16:16	12/29/23 14:43	7439-95-4	
Manganese, Total Recoverable	**1.9**	mg/L	0.0050	1	12/21/23 16:16	12/29/23 14:43	7439-96-5	
Potassium, Total Recoverable	**13.3**	mg/L	0.50	1	12/21/23 16:16	12/29/23 14:43	7440-09-7	
Sodium, Total Recoverable	**251**	mg/L	0.50	1	12/21/23 16:16	12/29/23 14:43	7440-23-5	
Total Hardness by 2340B, Total Recoverable	**650**	mg/L	0.50	1	12/21/23 16:16	12/29/23 14:43		
200.7 Metals, Dissolved (LF)	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City							
Aluminum, Dissolved	**<0.075**	mg/L	0.075	1	12/19/23 16:10	12/22/23 15:38	7429-90-5	
Iron, Dissolved	**0.32**	mg/L	0.050	1	12/19/23 16:10	12/22/23 15:38	7439-89-6	
Magnesium, Dissolved	**34.9**	mg/L	0.050	1	12/19/23 16:10	12/22/23 15:38	7439-95-4	
Manganese, Dissolved	**1.5**	mg/L	0.0050	1	12/19/23 16:10	12/22/23 15:38	7439-96-5	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Kansas City							
Lithium, Total Recoverable	**0.051**	mg/L	0.010	1	12/21/23 14:16	12/29/23 13:21	7439-93-2	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City							
Antimony, Total Recoverable	**<0.0050**	mg/L	0.0050	5	12/20/23 08:44	01/03/24 13:40	7440-36-0	D3
Arsenic, Total Recoverable	**<0.0050**	mg/L	0.0050	5	12/20/23 08:44	01/03/24 13:40	7440-38-2	D3
Cadmium, Total Recoverable	**<0.0025**	mg/L	0.0025	5	12/20/23 08:44	01/03/24 13:40	7440-43-9	D3
Cobalt, Total Recoverable	**0.058**	mg/L	0.0050	5	12/20/23 08:44	01/03/24 13:40	7440-48-4	
Molybdenum, Total Recoverable	**0.0070**	mg/L	0.0050	5	12/20/23 08:44	01/03/24 13:40	7439-98-7	
Selenium, Total Recoverable	**<0.0050**	mg/L	0.0050	5	12/20/23 08:44	01/03/24 13:40	7782-49-2	D3
Thallium, Total Recoverable	**<0.0050**	mg/L	0.0050	5	12/20/23 08:44	01/03/24 13:40	7440-28-0	D3
200.8 ICPMS, Dissolved (LF)	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City							
Arsenic, Dissolved	**0.0048**	mg/L	0.0010	1	12/20/23 11:46	01/03/24 15:12	7440-38-2	
Cobalt, Dissolved	**0.055**	mg/L	0.0010	1	12/20/23 11:46	01/03/24 15:12	7440-48-4	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Kansas City							
Mercury	**<0.20**	ug/L	0.20	1	12/29/23 12:19	01/03/24 16:08	7439-97-6	

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ANALYTICAL RESULTS

Project: TEC BASA CCR-Revised Report
Pace Project No.: 60444029

Sample: MW-12-121323 **Lab ID: 60444029005** Collected: 12/13/23 14:10 Received: 12/14/23 16:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B							
	Pace Analytical Services - Kansas City							
Alkalinity,Bicarbonate (CaCO3)	**423**	mg/L	20.0	1		12/26/23 12:07		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	20.0	1		12/26/23 12:07		
Alkalinity, Total as CaCO3	**423**	mg/L	20.0	1		12/26/23 12:07		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
	Pace Analytical Services - Kansas City							
Total Dissolved Solids	**1340**	mg/L	40.0	1		12/20/23 13:17		
Iron, Ferrous	Analytical Method: SM 3500-Fe B#4							
	Pace Analytical Services - Kansas City							
Iron, Ferrous	**<0.20**	mg/L	0.20	1		01/12/24 15:03	15438-31-0	H6
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
	Pace Analytical Services - Kansas City							
pH at 25 Degrees C	**7.0**	Std. Units	0.10	1		12/26/23 13:45		H6
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
	Pace Analytical Services - Kansas City							
Chloride	**274**	mg/L	20.0	20		12/28/23 00:37	16887-00-6	
Fluoride	**0.33**	mg/L	0.20	1		12/28/23 00:25	16984-48-8	
Sulfate	**389**	mg/L	100	100		12/28/23 00:48	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
	Pace Analytical Services - Kansas City							
Nitrogen, NO2 plus NO3	**<0.10**	mg/L	0.10	1		12/15/23 11:05		
Nitrogen, Nitrate	**<0.10**	mg/L	0.10	1		12/15/23 11:05	14797-55-8	
Nitrogen, Nitrite	**<0.10**	mg/L	0.10	1		12/15/23 11:05	14797-65-0	
365.4 Total Phosphorus	Analytical Method: EPA 365.4 Preparation Method: EPA 365.4							
	Pace Analytical Services - Kansas City							
Phosphorus	**<0.10**	mg/L	0.10	1	01/04/24 10:51	01/04/24 14:12	7723-14-0	
5310C TOC	Analytical Method: SM 5310C							
	Pace Analytical Services - Kansas City							
Total Organic Carbon	**2.8**	mg/L	1.0	1		12/27/23 17:47	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C							
	Pace Analytical Services - Kansas City							
Dissolved Organic Carbon	**2.8**	mg/L	1.0	1		12/27/23 17:47		

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ANALYTICAL RESULTS

Project: TEC BASA CCR-Revised Report
Pace Project No.: 60444029

Sample: MW-13-121323 **Lab ID: 60444029006** Collected: 12/13/23 15:40 Received: 12/14/23 16:20 Matrix: Water

Parameters	Results	Units	Report Limit	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							
Aluminum, Total Recoverable	**4.5**	mg/L	0.075	1	12/21/23 16:16	12/29/23 14:52	7429-90-5	
Barium, Total Recoverable	**0.081**	mg/L	0.0050	1	12/21/23 16:16	12/29/23 14:52	7440-39-3	
Beryllium, Total Recoverable	**<0.0010**	mg/L	0.0010	1	12/21/23 16:16	12/29/23 14:52	7440-41-7	
Boron, Total Recoverable	**1.1**	mg/L	0.10	1	12/21/23 16:16	12/29/23 14:52	7440-42-8	
Calcium, Total Recoverable	**225**	mg/L	0.20	1	12/21/23 16:16	12/29/23 14:52	7440-70-2	
Chromium, Total Recoverable	**0.0070**	mg/L	0.0050	1	12/21/23 16:16	12/29/23 14:52	7440-47-3	
Iron, Total Recoverable	**7.5**	mg/L	0.050	1	12/21/23 16:16	12/29/23 14:52	7439-89-6	
Lead, Total Recoverable	**<0.010**	mg/L	0.010	1	12/21/23 16:16	12/29/23 14:52	7439-92-1	
Magnesium, Total Recoverable	**15.7**	mg/L	0.050	1	12/21/23 16:16	12/29/23 14:52	7439-95-4	
Manganese, Total Recoverable	**0.50**	mg/L	0.0050	1	12/21/23 16:16	12/29/23 14:52	7439-96-5	
Potassium, Total Recoverable	**32.9**	mg/L	0.50	1	12/21/23 16:16	12/29/23 14:52	7440-09-7	
Sodium, Total Recoverable	**198**	mg/L	0.50	1	12/21/23 16:16	12/29/23 14:52	7440-23-5	
Total Hardness by 2340B, Total Recoverable	**627**	mg/L	0.50	1	12/21/23 16:16	12/29/23 14:52		
200.7 Metals, Dissolved (LF)	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City							
Aluminum, Dissolved	**<0.075**	mg/L	0.075	1	12/19/23 16:10	12/22/23 15:47	7429-90-5	
Iron, Dissolved	**<0.050**	mg/L	0.050	1	12/19/23 16:10	12/22/23 15:47	7439-89-6	
Magnesium, Dissolved	**11.7**	mg/L	0.050	1	12/19/23 16:10	12/22/23 15:47	7439-95-4	
Manganese, Dissolved	**0.28**	mg/L	0.0050	1	12/19/23 16:10	12/22/23 15:47	7439-96-5	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Kansas City							
Lithium, Total Recoverable	**0.032**	mg/L	0.010	1	12/21/23 14:16	12/29/23 13:29	7439-93-2	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City							
Antimony, Total Recoverable	**<0.0050**	mg/L	0.0050	5	12/20/23 08:44	01/03/24 13:43	7440-36-0	D3
Arsenic, Total Recoverable	**0.0064**	mg/L	0.0050	5	12/20/23 08:44	01/03/24 13:43	7440-38-2	
Cadmium, Total Recoverable	**<0.0025**	mg/L	0.0025	5	12/20/23 08:44	01/03/24 13:43	7440-43-9	D3
Cobalt, Total Recoverable	**<0.0050**	mg/L	0.0050	5	12/20/23 08:44	01/03/24 13:43	7440-48-4	D3
Molybdenum, Total Recoverable	**0.032**	mg/L	0.0050	5	12/20/23 08:44	01/03/24 13:43	7439-98-7	
Selenium, Total Recoverable	**<0.0050**	mg/L	0.0050	5	12/20/23 08:44	01/03/24 13:43	7782-49-2	D3
Thallium, Total Recoverable	**<0.0050**	mg/L	0.0050	5	12/20/23 08:44	01/03/24 13:43	7440-28-0	D3
200.8 ICPMS, Dissolved (LF)	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City							
Arsenic, Dissolved	**0.0050**	mg/L	0.0010	1	12/20/23 11:46	01/03/24 15:15	7440-38-2	
Cobalt, Dissolved	**0.0013**	mg/L	0.0010	1	12/20/23 11:46	01/03/24 15:15	7440-48-4	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Kansas City							
Mercury	**<0.20**	ug/L	0.20	1	12/29/23 12:19	01/03/24 16:10	7439-97-6	

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ANALYTICAL RESULTS

Project: TEC BASA CCR-Revised Report
Pace Project No.: 60444029

Sample: MW-13-121323 **Lab ID: 60444029006** Collected: 12/13/23 15:40 Received: 12/14/23 16:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B							
	Pace Analytical Services - Kansas City							
Alkalinity,Bicarbonate (CaCO3)	**92.5**	mg/L	20.0	1		12/26/23 12:14		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	20.0	1		12/26/23 12:14		
Alkalinity, Total as CaCO3	**92.5**	mg/L	20.0	1		12/26/23 12:14		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
	Pace Analytical Services - Kansas City							
Total Dissolved Solids	**1340**	mg/L	20.0	1		12/20/23 13:18		1e
Iron, Ferrous	Analytical Method: SM 3500-Fe B#4							
	Pace Analytical Services - Kansas City							
Iron, Ferrous	**0.59**	mg/L	0.20	1		01/12/24 15:03	15438-31-0	H6
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
	Pace Analytical Services - Kansas City							
pH at 25 Degrees C	**7.6**	Std. Units	0.10	1		12/26/23 13:47		H6
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
	Pace Analytical Services - Kansas City							
Chloride	**266**	mg/L	100	100		12/28/23 01:11	16887-00-6	
Fluoride	**<0.20**	mg/L	0.20	1		12/28/23 01:00	16984-48-8	
Sulfate	**723**	mg/L	100	100		12/28/23 01:11	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
	Pace Analytical Services - Kansas City							
Nitrogen, NO2 plus NO3	**<0.10**	mg/L	0.10	1		12/15/23 11:09		
Nitrogen, Nitrate	**<0.10**	mg/L	0.10	1		12/15/23 11:09	14797-55-8	
Nitrogen, Nitrite	**<0.10**	mg/L	0.10	1		12/15/23 11:09	14797-65-0	
365.4 Total Phosphorus	Analytical Method: EPA 365.4 Preparation Method: EPA 365.4							
	Pace Analytical Services - Kansas City							
Phosphorus	**0.29**	mg/L	0.10	1	01/04/24 10:51	01/04/24 14:15	7723-14-0	
5310C TOC	Analytical Method: SM 5310C							
	Pace Analytical Services - Kansas City							
Total Organic Carbon	**1.3**	mg/L	1.0	1		12/27/23 18:03	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C							
	Pace Analytical Services - Kansas City							
Dissolved Organic Carbon	**1.3**	mg/L	1.0	1		12/27/23 18:03		

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ANALYTICAL RESULTS

Project: TEC BASA CCR-Revised Report
Pace Project No.: 60444029

Sample: MW-14-121323 **Lab ID: 60444029007** Collected: 12/13/23 16:50 Received: 12/14/23 16:20 Matrix: Water

Parameters	Results	Units	Report Limit	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							
Aluminum, Total Recoverable	**0.33**	mg/L	0.075	1	12/21/23 16:16	12/29/23 14:54	7429-90-5	
Barium, Total Recoverable	**0.064**	mg/L	0.0050	1	12/21/23 16:16	12/29/23 14:54	7440-39-3	
Beryllium, Total Recoverable	**<0.0010**	mg/L	0.0010	1	12/21/23 16:16	12/29/23 14:54	7440-41-7	
Boron, Total Recoverable	**0.95**	mg/L	0.10	1	12/21/23 16:16	12/29/23 14:54	7440-42-8	
Calcium, Total Recoverable	**190**	mg/L	0.20	1	12/21/23 16:16	12/29/23 14:54	7440-70-2	
Chromium, Total Recoverable	**<0.0050**	mg/L	0.0050	1	12/21/23 16:16	12/29/23 14:54	7440-47-3	
Iron, Total Recoverable	**0.67**	mg/L	0.050	1	12/21/23 16:16	12/29/23 14:54	7439-89-6	
Lead, Total Recoverable	**<0.010**	mg/L	0.010	1	12/21/23 16:16	12/29/23 14:54	7439-92-1	
Magnesium, Total Recoverable	**23.0**	mg/L	0.050	1	12/21/23 16:16	12/29/23 14:54	7439-95-4	
Manganese, Total Recoverable	**0.31**	mg/L	0.0050	1	12/21/23 16:16	12/29/23 14:54	7439-96-5	
Potassium, Total Recoverable	**20.0**	mg/L	0.50	1	12/21/23 16:16	12/29/23 14:54	7440-09-7	
Sodium, Total Recoverable	**175**	mg/L	0.50	1	12/21/23 16:16	12/29/23 14:54	7440-23-5	
Total Hardness by 2340B, Total Recoverable	**570**	mg/L	0.50	1	12/21/23 16:16	12/29/23 14:54		
200.7 Metals, Dissolved (LF)	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City							
Aluminum, Dissolved	**<0.075**	mg/L	0.075	1	12/19/23 16:10	12/22/23 15:49	7429-90-5	
Iron, Dissolved	**<0.050**	mg/L	0.050	1	12/19/23 16:10	12/22/23 15:49	7439-89-6	
Magnesium, Dissolved	**21.3**	mg/L	0.050	1	12/19/23 16:10	12/22/23 15:49	7439-95-4	
Manganese, Dissolved	**0.087**	mg/L	0.0050	1	12/19/23 16:10	12/22/23 15:49	7439-96-5	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Kansas City							
Lithium, Total Recoverable	**0.035**	mg/L	0.010	1	12/21/23 14:16	12/29/23 13:32	7439-93-2	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City							
Antimony, Total Recoverable	**<0.0010**	mg/L	0.0010	1	12/20/23 08:44	01/03/24 13:46	7440-36-0	
Arsenic, Total Recoverable	**0.0037**	mg/L	0.0010	1	12/20/23 08:44	01/03/24 13:46	7440-38-2	
Cadmium, Total Recoverable	**<0.00050**	mg/L	0.00050	1	12/20/23 08:44	01/03/24 13:46	7440-43-9	
Cobalt, Total Recoverable	**0.0018**	mg/L	0.0010	1	12/20/23 08:44	01/03/24 13:46	7440-48-4	
Molybdenum, Total Recoverable	**0.029**	mg/L	0.0010	1	12/20/23 08:44	01/03/24 13:46	7439-98-7	
Selenium, Total Recoverable	**<0.0010**	mg/L	0.0010	1	12/20/23 08:44	01/03/24 13:46	7782-49-2	
Thallium, Total Recoverable	**<0.0010**	mg/L	0.0010	1	12/20/23 08:44	01/03/24 13:46	7440-28-0	
200.8 ICPMS, Dissolved (LF)	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City							
Arsenic, Dissolved	**0.0022**	mg/L	0.0010	1	12/20/23 11:46	01/03/24 15:18	7440-38-2	
Cobalt, Dissolved	**0.0013**	mg/L	0.0010	1	12/20/23 11:46	01/03/24 15:18	7440-48-4	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Kansas City							
Mercury	**<0.20**	ug/L	0.20	1	12/29/23 12:19	01/03/24 16:17	7439-97-6	

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ANALYTICAL RESULTS

Project: TEC BASA CCR-Revised Report
Pace Project No.: 60444029

Sample: MW-14-121323 **Lab ID: 60444029007** Collected: 12/13/23 16:50 Received: 12/14/23 16:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B							
	Pace Analytical Services - Kansas City							
Alkalinity,Bicarbonate (CaCO3)	**175**	mg/L	20.0	1		12/26/23 12:19		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	20.0	1		12/26/23 12:19		
Alkalinity, Total as CaCO3	**175**	mg/L	20.0	1		12/26/23 12:19		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
	Pace Analytical Services - Kansas City							
Total Dissolved Solids	**1190**	mg/L	20.0	1		12/20/23 13:18		
Iron, Ferrous	Analytical Method: SM 3500-Fe B#4							
	Pace Analytical Services - Kansas City							
Iron, Ferrous	**<0.20**	mg/L	0.20	1		01/12/24 15:03	15438-31-0	H6
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
	Pace Analytical Services - Kansas City							
pH at 25 Degrees C	**7.6**	Std. Units	0.10	1		12/26/23 13:49		H6
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
	Pace Analytical Services - Kansas City							
Chloride	**196**	mg/L	20.0	20		12/28/23 01:35	16887-00-6	
Fluoride	**<0.20**	mg/L	0.20	1		12/28/23 01:23	16984-48-8	
Sulfate	**488**	mg/L	50.0	50		12/28/23 01:46	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
	Pace Analytical Services - Kansas City							
Nitrogen, NO2 plus NO3	**0.16**	mg/L	0.10	1		12/15/23 11:10		
Nitrogen, Nitrate	**0.16**	mg/L	0.10	1		12/15/23 11:10	14797-55-8	
Nitrogen, Nitrite	**<0.10**	mg/L	0.10	1		12/15/23 11:10	14797-65-0	
365.4 Total Phosphorus	Analytical Method: EPA 365.4 Preparation Method: EPA 365.4							
	Pace Analytical Services - Kansas City							
Phosphorus	**<0.10**	mg/L	0.10	1	01/04/24 10:51	01/04/24 14:16	7723-14-0	
5310C TOC	Analytical Method: SM 5310C							
	Pace Analytical Services - Kansas City							
Total Organic Carbon	**1.2**	mg/L	1.0	1		12/27/23 18:18	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C							
	Pace Analytical Services - Kansas City							
Dissolved Organic Carbon	**1.2**	mg/L	1.0	1		12/27/23 18:18		

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ANALYTICAL RESULTS

Project: TEC BASA CCR-Revised Report
Pace Project No.: 60444029

Sample: TEC-BASA-DUP-121323 **Lab ID: 60444029008** Collected: 12/13/23 00:00 Received: 12/14/23 16:20 Matrix: Water

Parameters	Results	Units	Report Limit	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							
Aluminum, Total Recoverable	**0.26**	mg/L	0.075	1	12/21/23 16:16	12/29/23 14:56	7429-90-5	
Barium, Total Recoverable	**0.091**	mg/L	0.0050	1	12/21/23 16:16	12/29/23 14:56	7440-39-3	
Beryllium, Total Recoverable	**<0.0010**	mg/L	0.0010	1	12/21/23 16:16	12/29/23 14:56	7440-41-7	
Boron, Total Recoverable	**0.44**	mg/L	0.10	1	12/21/23 16:16	12/29/23 14:56	7440-42-8	
Calcium, Total Recoverable	**221**	mg/L	0.20	1	12/21/23 16:16	12/29/23 14:56	7440-70-2	
Chromium, Total Recoverable	**<0.0050**	mg/L	0.0050	1	12/21/23 16:16	12/29/23 14:56	7440-47-3	
Iron, Total Recoverable	**5.0**	mg/L	0.050	1	12/21/23 16:16	12/29/23 14:56	7439-89-6	
Lead, Total Recoverable	**<0.010**	mg/L	0.010	1	12/21/23 16:16	12/29/23 14:56	7439-92-1	
Magnesium, Total Recoverable	**42.6**	mg/L	0.050	1	12/21/23 16:16	12/29/23 14:56	7439-95-4	
Manganese, Total Recoverable	**1.2**	mg/L	0.0050	1	12/21/23 16:16	12/29/23 14:56	7439-96-5	
Potassium, Total Recoverable	**15.4**	mg/L	0.50	1	12/21/23 16:16	12/29/23 14:56	7440-09-7	
Sodium, Total Recoverable	**257**	mg/L	0.50	1	12/21/23 16:16	12/29/23 14:56	7440-23-5	
Total Hardness by 2340B, Total Recoverable	**726**	mg/L	0.50	1	12/21/23 16:16	12/29/23 14:56		
200.7 Metals, Dissolved (LF)	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City							
Aluminum, Dissolved	**<0.075**	mg/L	0.075	1	12/19/23 16:10	12/22/23 15:51	7429-90-5	
Iron, Dissolved	**0.065**	mg/L	0.050	1	12/19/23 16:10	12/22/23 15:51	7439-89-6	
Magnesium, Dissolved	**42.6**	mg/L	0.050	1	12/19/23 16:10	12/22/23 15:51	7439-95-4	
Manganese, Dissolved	**1.2**	mg/L	0.0050	1	12/19/23 16:10	12/22/23 15:51	7439-96-5	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Kansas City							
Lithium, Total Recoverable	**0.050**	mg/L	0.010	1	12/21/23 14:16	12/29/23 13:34	7439-93-2	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City							
Antimony, Total Recoverable	**<0.0010**	mg/L	0.0010	1	12/20/23 08:44	01/03/24 13:49	7440-36-0	
Arsenic, Total Recoverable	**0.0053**	mg/L	0.0010	1	12/20/23 08:44	01/03/24 13:49	7440-38-2	
Cadmium, Total Recoverable	**<0.00050**	mg/L	0.00050	1	12/20/23 08:44	01/03/24 13:49	7440-43-9	
Cobalt, Total Recoverable	**0.021**	mg/L	0.0010	1	12/20/23 08:44	01/03/24 13:49	7440-48-4	
Molybdenum, Total Recoverable	**0.0032**	mg/L	0.0010	1	12/20/23 08:44	01/03/24 13:49	7439-98-7	
Selenium, Total Recoverable	**<0.0010**	mg/L	0.0010	1	12/20/23 08:44	01/03/24 13:49	7782-49-2	
Thallium, Total Recoverable	**<0.0010**	mg/L	0.0010	1	12/20/23 08:44	01/03/24 13:49	7440-28-0	
200.8 ICPMS, Dissolved (LF)	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City							
Arsenic, Dissolved	**0.0048**	mg/L	0.0010	1	12/20/23 11:46	01/03/24 15:21	7440-38-2	
Cobalt, Dissolved	**0.019**	mg/L	0.0010	1	12/20/23 11:46	01/03/24 15:21	7440-48-4	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Kansas City							
Mercury	**<0.20**	ug/L	0.20	1	12/29/23 12:19	01/03/24 16:19	7439-97-6	

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ANALYTICAL RESULTS

Project: TEC BASA CCR-Revised Report
Pace Project No.: 60444029

Sample: TEC-BASA-DUP-121323 **Lab ID: 60444029008** Collected: 12/13/23 00:00 Received: 12/14/23 16:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Kansas City							
Alkalinity,Bicarbonate (CaCO3)	**373**	mg/L	20.0	1		12/26/23 12:24		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	20.0	1		12/26/23 12:24		
Alkalinity, Total as CaCO3	**373**	mg/L	20.0	1		12/26/23 12:24		
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City							
Total Dissolved Solids	**1550**	mg/L	40.0	1		12/20/23 13:18		
Iron, Ferrous	Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City							
Iron, Ferrous	**<0.20**	mg/L	0.20	1		01/12/24 15:03	15438-31-0	H6
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Kansas City							
pH at 25 Degrees C	**7.1**	Std. Units	0.10	1		12/26/23 13:52		H6
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City							
Chloride	**359**	mg/L	50.0	50		12/27/23 21:51	16887-00-6	
Fluoride	**0.45**	mg/L	0.20	1		12/27/23 21:40	16984-48-8	
Sulfate	**415**	mg/L	50.0	50		12/27/23 21:51	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2 Pace Analytical Services - Kansas City							
Nitrogen, NO2 plus NO3	**<0.10**	mg/L	0.10	1		12/15/23 11:02		H1,M1
Nitrogen, Nitrate	**<0.10**	mg/L	0.10	1		12/15/23 11:02	14797-55-8	
Nitrogen, Nitrite	**<0.10**	mg/L	0.10	1		12/15/23 11:02	14797-65-0	H1
365.4 Total Phosphorus	Analytical Method: EPA 365.4 Preparation Method: EPA 365.4 Pace Analytical Services - Kansas City							
Phosphorus	**<0.10**	mg/L	0.10	1	01/04/24 10:51	01/04/24 14:17	7723-14-0	
5310C TOC	Analytical Method: SM 5310C Pace Analytical Services - Kansas City							
Total Organic Carbon	**1.1**	mg/L	1.0	1		12/27/23 18:34	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C Pace Analytical Services - Kansas City							
Dissolved Organic Carbon	**1.1**	mg/L	1.0	1		12/27/23 18:34		

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QUALITY CONTROL DATA

Project: TEC BASA CCR-Revised Report
Pace Project No.: 60444029

QC Batch: 878776
QC Batch Method: EPA 245.1
Analysis Method: EPA 245.1
Analysis Description: 245.1 Mercury
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60444029001, 60444029002, 60444029003, 60444029004, 60444029005, 60444029006, 60444029007, 60444029008

METHOD BLANK: 3480549 Matrix: Water
Associated Lab Samples: 60444029001, 60444029002, 60444029003, 60444029004, 60444029005, 60444029006, 60444029007, 60444029008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	<0.20	0.20	01/03/24 15:49	

LABORATORY CONTROL SAMPLE: 3480550

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.7	115	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3480551 3480552

Parameter	Units	60444029001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	<0.20	5	5	5.9	5.8	117	117	70-130	0	20	

MATRIX SPIKE SAMPLE: 3480553

Parameter	Units	60444076002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	ND	5	5.8	115	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.

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QUALITY CONTROL DATA

Project: TEC BASA CCR-Revised Report
Pace Project No.: 60444029

QC Batch: 878048
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: 60444029001, 60444029002, 60444029003, 60444029004, 60444029005, 60444029006, 60444029007, 60444029008

METHOD BLANK: 3478027 Matrix: Water
Associated Lab Samples: 60444029001, 60444029002, 60444029003, 60444029004, 60444029005, 60444029006, 60444029007, 60444029008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	mg/L	<0.075	0.075	12/29/23 14:25	
Barium	mg/L	<0.0050	0.0050	12/29/23 14:25	
Beryllium	mg/L	<0.0010	0.0010	12/29/23 14:25	
Boron	mg/L	<0.10	0.10	12/29/23 14:25	
Calcium	mg/L	<0.20	0.20	12/29/23 14:25	
Chromium	mg/L	<0.0050	0.0050	12/29/23 14:25	
Hardness, Total(SM 2340B)	mg/L	<0.50	0.50	12/29/23 14:25	
Iron	mg/L	<0.050	0.050	12/29/23 14:25	
Lead	mg/L	<0.010	0.010	12/29/23 14:25	
Magnesium	mg/L	<0.050	0.050	12/29/23 14:25	
Manganese	mg/L	<0.0050	0.0050	12/29/23 14:25	
Potassium	mg/L	<0.50	0.50	12/29/23 14:25	
Sodium	mg/L	<0.50	0.50	12/29/23 14:25	

LABORATORY CONTROL SAMPLE: 3478028

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	mg/L	10	10.2	102	85-115	
Barium	mg/L	1	1.0	102	85-115	
Beryllium	mg/L	1	1.0	100	85-115	
Boron	mg/L	1	0.99	99	85-115	
Calcium	mg/L	10	10.3	103	85-115	
Chromium	mg/L	1	1.0	101	85-115	
Hardness, Total(SM 2340B)	mg/L	66.2	66.9	101	85-115	
Iron	mg/L	10	10.2	102	85-115	
Lead	mg/L	1	1.1	106	85-115	
Magnesium	mg/L	10	10.0	100	85-115	
Manganese	mg/L	1	1.0	103	85-115	
Potassium	mg/L	10	10.0	100	85-115	
Sodium	mg/L	10	10.1	101	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3478029 3478030

Parameter	Units	60444029001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum	mg/L	0.62	10	10	13.6	14.0	130	133	70-130	3	20	M1

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QUALITY CONTROL DATA

Project: TEC BASA CCR-Revised Report
Pace Project No.: 60444029

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3478029 3478030

Parameter	Units	60444029001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	mg/L	0.063	1	1	1.3	1.3	120	123	70-130	3	20	
Beryllium	mg/L	<0.0010	1	1	0.99	1.0	99	104	70-130	5	20	
Boron	mg/L	0.62	1	1	1.3	1.3	70	71	70-130	1	20	
Calcium	mg/L	115	10	10	178	182	622	666	70-130	2	20	M1
Chromium	mg/L	<0.0050	1	1	0.95	1.0	95	100	70-130	5	20	
Hardness, Total(SM 2340B)	mg/L	370	66.2	66.2	622	637	381	404	70-130	2	20	
Iron	mg/L	0.87	10	10	21.9	22.7	210	218	70-130	4	20	M1
Lead	mg/L	<0.010	1	1	0.97	1.0	97	99	70-130	3	20	
Magnesium	mg/L	19.8	10	10	43.2	44.3	234	245	70-130	3	20	M1
Manganese	mg/L	0.24	1	1	7.3	7.7	702	744	70-130	6	20	M1
Potassium	mg/L	3.2	10	10	15.9	16.1	127	130	70-130	1	20	
Sodium	mg/L	228	10	10	265	271	369	430	70-130	2	20	M1

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QUALITY CONTROL DATA

Project: TEC BASA CCR-Revised Report
Pace Project No.: 60444029

QC Batch: 877742
QC Batch Method: EPA 200.7
Analysis Method: EPA 200.7
Analysis Description: 200.7 Metals, Dissolved
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60444029001, 60444029002, 60444029003, 60444029004, 60444029005, 60444029006, 60444029007, 60444029008

METHOD BLANK: 3476716 Matrix: Water
Associated Lab Samples: 60444029001, 60444029002, 60444029003, 60444029004, 60444029005, 60444029006, 60444029007, 60444029008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	mg/L	<0.075	0.075	12/22/23 15:19	
Iron, Dissolved	mg/L	<0.050	0.050	12/22/23 15:19	
Magnesium, Dissolved	mg/L	<0.050	0.050	12/22/23 15:19	
Manganese, Dissolved	mg/L	<0.0050	0.0050	12/22/23 15:19	

LABORATORY CONTROL SAMPLE: 3476717

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	mg/L	10	9.1	91	85-115	
Iron, Dissolved	mg/L	10	9.1	91	85-115	
Magnesium, Dissolved	mg/L	10	8.9	89	85-115	
Manganese, Dissolved	mg/L	1	0.93	93	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3476718 3476719

Parameter	Units	60444029001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum, Dissolved	mg/L	<0.075	10	10	10.1	9.5	101	95	70-130	7	20	
Iron, Dissolved	mg/L	<0.050	10	10	9.9	9.2	99	92	70-130	7	20	
Magnesium, Dissolved	mg/L	18.8	10	10	29.2	26.6	104	78	70-130	9	20	
Manganese, Dissolved	mg/L	0.098	1	1	1.1	1.0	100	91	70-130	8	20	

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QUALITY CONTROL DATA

Project: TEC BASA CCR-Revised Report
Pace Project No.: 60444029

QC Batch: 877673
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: 60444029001, 60444029002, 60444029003, 60444029004, 60444029005, 60444029006, 60444029007, 60444029008

METHOD BLANK: 3476448 Matrix: Water
Associated Lab Samples: 60444029001, 60444029002, 60444029003, 60444029004, 60444029005, 60444029006, 60444029007, 60444029008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	mg/L	<0.0010	0.0010	01/03/24 13:12	
Arsenic	mg/L	<0.0010	0.0010	01/03/24 13:12	
Cadmium	mg/L	<0.00050	0.00050	01/03/24 13:12	
Cobalt	mg/L	<0.0010	0.0010	01/03/24 13:12	
Molybdenum	mg/L	<0.0010	0.0010	01/03/24 13:12	
Selenium	mg/L	<0.0010	0.0010	01/03/24 13:12	
Thallium	mg/L	<0.0010	0.0010	01/03/24 13:12	

LABORATORY CONTROL SAMPLE: 3476449

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.08	0.079	99	85-115	
Arsenic	mg/L	0.08	0.081	101	85-115	
Cadmium	mg/L	0.08	0.082	103	85-115	
Cobalt	mg/L	0.08	0.082	103	85-115	
Molybdenum	mg/L	0.08	0.080	100	85-115	
Selenium	mg/L	0.08	0.080	100	85-115	
Thallium	mg/L	0.08	0.076	95	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3476450 3476451

Parameter	Units	60444029001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	<0.0010	0.08	0.08	0.076	0.080	95	100	70-130	5	20	
Arsenic	mg/L	0.0020	0.08	0.08	0.083	0.085	101	104	70-130	3	20	
Cadmium	mg/L	<0.00050	0.08	0.08	0.075	0.078	94	97	70-130	4	20	
Cobalt	mg/L	0.0017	0.08	0.08	0.080	0.082	97	100	70-130	3	20	
Molybdenum	mg/L	0.019	0.08	0.08	0.10	0.10	103	107	70-130	3	20	
Selenium	mg/L	<0.0010	0.08	0.08	0.075	0.076	93	95	70-130	1	20	
Thallium	mg/L	<0.0010	0.08	0.08	0.074	0.076	92	94	70-130	2	20	

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QUALITY CONTROL DATA

Project: TEC BASA CCR-Revised Report
Pace Project No.: 60444029

QC Batch: 877868
QC Batch Method: EPA 200.8
Analysis Method: EPA 200.8
Analysis Description: 200.8 MET Dissolved
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60444029001, 60444029002, 60444029003, 60444029004, 60444029005, 60444029006, 60444029007, 60444029008

METHOD BLANK: 3477234 Matrix: Water
Associated Lab Samples: 60444029001, 60444029002, 60444029003, 60444029004, 60444029005, 60444029006, 60444029007, 60444029008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic, Dissolved	mg/L	<0.0010	0.0010	01/03/24 14:44	
Cobalt, Dissolved	mg/L	<0.0010	0.0010	01/03/24 14:44	

LABORATORY CONTROL SAMPLE: 3477235

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic, Dissolved	mg/L	0.04	0.041	102	85-115	
Cobalt, Dissolved	mg/L	0.04	0.041	102	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3477236 3477237

Parameter	Units	60444029001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic, Dissolved	mg/L	0.0017	0.04	0.04	0.043	0.042	102	101	70-130	1	20	
Cobalt, Dissolved	mg/L	<0.0010	0.04	0.04	0.039	0.039	96	95	70-130	1	20	

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QUALITY CONTROL DATA

Project: TEC BASA CCR-Revised Report
Pace Project No.: 60444029

QC Batch: 878013
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60444029001, 60444029002, 60444029003, 60444029004, 60444029005, 60444029006, 60444029007, 60444029008

METHOD BLANK: 3477946 Matrix: Water
Associated Lab Samples: 60444029001, 60444029002, 60444029003, 60444029004, 60444029005, 60444029006, 60444029007, 60444029008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lithium	mg/L	<0.010	0.010	12/29/23 13:05	

LABORATORY CONTROL SAMPLE: 3477947

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lithium	mg/L	1	1.0	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3477948 3477949

Parameter	Units	60444029001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lithium	mg/L	0.035	1	1	1.1	1.1	108	109	75-125	1	20	

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QUALITY CONTROL DATA

Project: TEC BASA CCR-Revised Report
Pace Project No.: 60444029

QC Batch: 878214
QC Batch Method: SM 2320B
Analysis Method: SM 2320B
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60444029004, 60444029005, 60444029006, 60444029007, 60444029008

METHOD BLANK: 3478778 Matrix: Water
Associated Lab Samples: 60444029004, 60444029005, 60444029006, 60444029007, 60444029008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	20.0	12/26/23 10:30	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	20.0	12/26/23 10:30	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	20.0	12/26/23 10:30	

LABORATORY CONTROL SAMPLE: 3478779

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	500	481	96	90-110	

SAMPLE DUPLICATE: 3478780

Parameter	Units	60443883001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	316	314	1	10	
Alkalinity,Bicarbonate (CaCO3)	mg/L	316	314	1	10	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	ND		10	

SAMPLE DUPLICATE: 3478781

Parameter	Units	60444074004 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	385	386	0	10	
Alkalinity,Bicarbonate (CaCO3)	mg/L	385	386	0	10	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	ND		10	

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QUALITY CONTROL DATA

Project: TEC BASA CCR-Revised Report
Pace Project No.: 60444029

QC Batch: 878427
QC Batch Method: SM 2320B
Analysis Method: SM 2320B
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60444029001, 60444029002, 60444029003

METHOD BLANK: 3479413 Matrix: Water
Associated Lab Samples: 60444029001, 60444029002, 60444029003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	20.0	12/27/23 10:17	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	20.0	12/27/23 10:17	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	20.0	12/27/23 10:17	

LABORATORY CONTROL SAMPLE: 3479414

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	500	472	94	90-110	

SAMPLE DUPLICATE: 3479415

Parameter	Units	60444029001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	369	364	1	10	
Alkalinity,Bicarbonate (CaCO3)	mg/L	369	364	1	10	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	ND		10	

SAMPLE DUPLICATE: 3479416

Parameter	Units	60444074013 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	381	383	1	10	
Alkalinity,Bicarbonate (CaCO3)	mg/L	381	383	1	10	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	ND		10	

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QUALITY CONTROL DATA

Project: TEC BASA CCR-Revised Report
Pace Project No.: 60444029

QC Batch: 877856 | Analysis Method: SM 2540C
QC Batch Method: SM 2540C | Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60444029004, 60444029005, 60444029006, 60444029007, 60444029008

METHOD BLANK: 3477204 Matrix: Water
Associated Lab Samples: 60444029004, 60444029005, 60444029006, 60444029007, 60444029008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<5.0	5.0	12/20/23 13:15	

LABORATORY CONTROL SAMPLE: 3477205

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	1000	989	99	80-120	

SAMPLE DUPLICATE: 3477206

Parameter	Units	60443962002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1180	1180	1	10	

SAMPLE DUPLICATE: 3477339

Parameter	Units	60444074004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1710	1710	0	10	1e

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QUALITY CONTROL DATA

Project: TEC BASA CCR-Revised Report
Pace Project No.: 60444029

QC Batch: 877858
QC Batch Method: SM 2540C
Analysis Method: SM 2540C
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60444029001, 60444029002, 60444029003

METHOD BLANK: 3477209 Matrix: Water
Associated Lab Samples: 60444029001, 60444029002, 60444029003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<5.0	5.0	12/20/23 15:48	

LABORATORY CONTROL SAMPLE: 3477210

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	1000	979	98	80-120	

SAMPLE DUPLICATE: 3477211

Parameter	Units	60444009001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	13000	14600	12	10	D6

SAMPLE DUPLICATE: 3477212

Parameter	Units	60444074012 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	2950	2890	2	10	

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QUALITY CONTROL DATA

Project: TEC BASA CCR-Revised Report
Pace Project No.: 60444029

QC Batch: 879921
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: 60444029001, 60444029002, 60444029003, 60444029004, 60444029005, 60444029006, 60444029007, 60444029008

METHOD BLANK: 3484528 Matrix: Water
Associated Lab Samples: 60444029001, 60444029002, 60444029003, 60444029004, 60444029005, 60444029006, 60444029007, 60444029008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron, Ferrous	mg/L	<0.20	0.20	01/12/24 15:03	H6

LABORATORY CONTROL SAMPLE: 3484529

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Ferrous	mg/L	3	3.0	101	90-110	H6,L1

SAMPLE DUPLICATE: 3484530

Parameter	Units	60444009010 Result	Dup Result	RPD	Max RPD	Qualifiers
Iron, Ferrous	mg/L	<0.20	<0.20		20	H3,H6

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QUALITY CONTROL DATA

Project: TEC BASA CCR-Revised Report
Pace Project No.: 60444029

QC Batch: 878249
QC Batch Method: SM 4500-H+B
Analysis Method: SM 4500-H+B
Analysis Description: 4500H+B pH
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60444029001, 60444029002, 60444029003, 60444029004, 60444029005, 60444029006, 60444029007, 60444029008

SAMPLE DUPLICATE: 3478937

Parameter	Units	60444009001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.8	7.9	1	5	H6

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QUALITY CONTROL DATA

Project: TEC BASA CCR-Revised Report
Pace Project No.: 60444029

QC Batch: 878457
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: 60444029001, 60444029002, 60444029003, 60444029004, 60444029005, 60444029006, 60444029007, 60444029008

METHOD BLANK: 3479472 Matrix: Water
Associated Lab Samples: 60444029001, 60444029002, 60444029003, 60444029004, 60444029005, 60444029006, 60444029007, 60444029008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<1.0	1.0	12/27/23 14:22	
Fluoride	mg/L	<0.20	0.20	12/27/23 14:22	
Sulfate	mg/L	<1.0	1.0	12/27/23 14:22	

METHOD BLANK: 3480372 Matrix: Water
Associated Lab Samples: 60444029001, 60444029002, 60444029003, 60444029004, 60444029005, 60444029006, 60444029007, 60444029008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<1.0	1.0	12/27/23 21:17	
Fluoride	mg/L	<0.20	0.20	12/27/23 21:17	
Sulfate	mg/L	<1.0	1.0	12/27/23 21:17	

METHOD BLANK: 3480377 Matrix: Water
Associated Lab Samples: 60444029001, 60444029002, 60444029003, 60444029004, 60444029005, 60444029006, 60444029007, 60444029008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<1.0	1.0	12/28/23 11:30	
Fluoride	mg/L	<0.20	0.20	12/28/23 11:30	
Sulfate	mg/L	<1.0	1.0	12/28/23 11:30	

LABORATORY CONTROL SAMPLE: 3479473

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	104	90-110	
Sulfate	mg/L	5	5.1	101	90-110	

LABORATORY CONTROL SAMPLE: 3480373

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.8	97	90-110	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: TEC BASA CCR-Revised Report
Pace Project No.: 60444029

LABORATORY CONTROL SAMPLE: 3480373

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Fluoride	mg/L	2.5	2.6	105	90-110	
Sulfate	mg/L	5	5.4	108	90-110	

LABORATORY CONTROL SAMPLE: 3480378

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	105	90-110	
Sulfate	mg/L	5	5.0	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3479474 3479475

Parameter	Units	60444139001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	81.7	50	50	131	133	98	103	80-120	2	15	
Fluoride	mg/L	4.1	25	25	27.2	31.5	92	110	80-120	15	15	
Sulfate	mg/L	94.8	50	50	146	147	101	104	80-120	1	15	

MATRIX SPIKE SAMPLE: 3479476

Parameter	Units	60443947002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	47.0	50	154	214	80-120	M1
Fluoride	mg/L	0.25	2.5	2.7	97	80-120	
Sulfate	mg/L	749	250	993	98	80-120	

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QUALITY CONTROL DATA

Project: TEC BASA CCR-Revised Report
Pace Project No.: 60444029

QC Batch: 877320
QC Batch Method: EPA 353.2
Analysis Method: EPA 353.2
Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60444029001, 60444029002, 60444029003, 60444029004, 60444029005, 60444029006, 60444029007, 60444029008

METHOD BLANK: 3474803 Matrix: Water
Associated Lab Samples: 60444029001, 60444029002, 60444029003, 60444029004, 60444029005, 60444029006, 60444029007, 60444029008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	<0.10	0.10	12/15/23 11:01	
Nitrogen, Nitrite	mg/L	<0.10	0.10	12/15/23 11:01	
Nitrogen, NO2 plus NO3	mg/L	<0.10	0.10	12/15/23 11:01	

LABORATORY CONTROL SAMPLE: 3474804

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	1	0.93	93	70-130	
Nitrogen, Nitrite	mg/L	1	1.0	102	90-110	
Nitrogen, NO2 plus NO3	mg/L	2	2.0	98	90-110	

MATRIX SPIKE SAMPLE: 3474805

Parameter	Units	60444029008 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	<0.10	1	0.80	80	70-130	
Nitrogen, Nitrite	mg/L	<0.10	1	0.95	95	90-110	H1
Nitrogen, NO2 plus NO3	mg/L	<0.10	2	1.8	88	90-110	H1,M1

SAMPLE DUPLICATE: 3474806

Parameter	Units	60444029005 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	mg/L	<0.10	<0.10		20	
Nitrogen, Nitrite	mg/L	<0.10	<0.10		20	
Nitrogen, NO2 plus NO3	mg/L	<0.10	<0.10		20	

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QUALITY CONTROL DATA

Project: TEC BASA CCR-Revised Report
Pace Project No.: 60444029

QC Batch: 879241
QC Batch Method: EPA 365.4
Analysis Method: EPA 365.4
Analysis Description: 365.4 Phosphorus
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60444029001, 60444029002, 60444029003, 60444029004, 60444029005, 60444029006, 60444029007, 60444029008

METHOD BLANK: 3482073 Matrix: Water
Associated Lab Samples: 60444029001, 60444029002, 60444029003, 60444029004, 60444029005, 60444029006, 60444029007, 60444029008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Phosphorus	mg/L	<0.10	0.10	01/04/24 13:48	

LABORATORY CONTROL SAMPLE: 3482074

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphorus	mg/L	2	1.9	94	90-110	

MATRIX SPIKE SAMPLE: 3482075

Parameter	Units	60444139001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phosphorus	mg/L	50.5	2	110	2970	90-110	M1

MATRIX SPIKE SAMPLE: 3482077

Parameter	Units	60444002001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phosphorus	mg/L	17.2	2	20.1	145	90-110	M1

SAMPLE DUPLICATE: 3482076

Parameter	Units	60443857001 Result	Dup Result	RPD	Max RPD	Qualifiers
Phosphorus	mg/L	14.1	15.0	6	10	

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QUALITY CONTROL DATA

Project: TEC BASA CCR-Revised Report
Pace Project No.: 60444029

QC Batch: 878422
QC Batch Method: SM 5310C
Analysis Method: SM 5310C
Analysis Description: 5310C Total Organic Carbon
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60444029001, 60444029002, 60444029003, 60444029004, 60444029005, 60444029006, 60444029007, 60444029008

METHOD BLANK: 3479395 Matrix: Water
Associated Lab Samples: 60444029001, 60444029002, 60444029003, 60444029004, 60444029005, 60444029006, 60444029007, 60444029008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	<1.0	1.0	12/27/23 15:13	

LABORATORY CONTROL SAMPLE: 3479396

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	5	5.4	107	80-120	

MATRIX SPIKE SAMPLE: 3479397

Parameter	Units	60444029001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	<1.0	5	5.7	97	80-120	

SAMPLE DUPLICATE: 3479398

Parameter	Units	60444029003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Organic Carbon	mg/L	2.0	2.0	2	25	

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QUALITY CONTROL DATA

Project: TEC BASA CCR-Revised Report
Pace Project No.: 60444029

QC Batch: 878425
QC Batch Method: SM 5310C
Analysis Method: SM 5310C
Analysis Description: 5310C Dissolved Organic Carbon
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60444029001, 60444029002, 60444029003, 60444029004, 60444029005, 60444029006, 60444029007, 60444029008

METHOD BLANK: 3479405 Matrix: Water
Associated Lab Samples: 60444029001, 60444029002, 60444029003, 60444029004, 60444029005, 60444029006, 60444029007, 60444029008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dissolved Organic Carbon	mg/L	<1.0	1.0	12/27/23 15:13	

LABORATORY CONTROL SAMPLE: 3479406

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	5	5.4	107	80-120	

MATRIX SPIKE SAMPLE: 3479407

Parameter	Units	60444029001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	<1.0	5	5.7	97	80-120	

SAMPLE DUPLICATE: 3479408

Parameter	Units	60444029003 Result	Dup Result	RPD	Max RPD	Qualifiers
Dissolved Organic Carbon	mg/L	2.0	2.0	2	25	

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QUALIFIERS

Project: TEC BASA CCR-Revised Report
Pace Project No.: 60444029

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

1e	Achieving a constant weight was not met for this sample.
D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
D6	The precision between the sample and sample duplicate exceeded laboratory control limits.
H1	Analysis conducted outside the EPA method holding time.
H3	Sample was received or analysis requested beyond the recognized method holding time.
H6	Analysis initiated outside of the 15 minute EPA required holding time.
L1	Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: TEC BASA CCR-Revised Report
Pace Project No.: 60444029

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60444029001	**MW-7-121423**	EPA 200.7	878048	EPA 200.7	878189
60444029002	**MW-8-121423**	EPA 200.7	878048	EPA 200.7	878189
60444029003	**MW-10-121423**	EPA 200.7	878048	EPA 200.7	878189
60444029004	**MW-11A-121323**	EPA 200.7	878048	EPA 200.7	878189
60444029005	**MW-12-121323**	EPA 200.7	878048	EPA 200.7	878189
60444029006	**MW-13-121323**	EPA 200.7	878048	EPA 200.7	878189
60444029007	**MW-14-121323**	EPA 200.7	878048	EPA 200.7	878189
60444029008	**TEC-BASA-DUP-121323**	EPA 200.7	878048	EPA 200.7	878189
60444029001	**MW-7-121423**	EPA 200.7	877742	EPA 200.7	877760
60444029002	**MW-8-121423**	EPA 200.7	877742	EPA 200.7	877760
60444029003	**MW-10-121423**	EPA 200.7	877742	EPA 200.7	877760
60444029004	**MW-11A-121323**	EPA 200.7	877742	EPA 200.7	877760
60444029005	**MW-12-121323**	EPA 200.7	877742	EPA 200.7	877760
60444029006	**MW-13-121323**	EPA 200.7	877742	EPA 200.7	877760
60444029007	**MW-14-121323**	EPA 200.7	877742	EPA 200.7	877760
60444029008	**TEC-BASA-DUP-121323**	EPA 200.7	877742	EPA 200.7	877760
60444029001	**MW-7-121423**	EPA 3010	878013	EPA 6010	878044
60444029002	**MW-8-121423**	EPA 3010	878013	EPA 6010	878044
60444029003	**MW-10-121423**	EPA 3010	878013	EPA 6010	878044
60444029004	**MW-11A-121323**	EPA 3010	878013	EPA 6010	878044
60444029005	**MW-12-121323**	EPA 3010	878013	EPA 6010	878044
60444029006	**MW-13-121323**	EPA 3010	878013	EPA 6010	878044
60444029007	**MW-14-121323**	EPA 3010	878013	EPA 6010	878044
60444029008	**TEC-BASA-DUP-121323**	EPA 3010	878013	EPA 6010	878044
60444029001	**MW-7-121423**	EPA 200.8	877673	EPA 200.8	877893
60444029002	**MW-8-121423**	EPA 200.8	877673	EPA 200.8	877893
60444029003	**MW-10-121423**	EPA 200.8	877673	EPA 200.8	877893
60444029004	**MW-11A-121323**	EPA 200.8	877673	EPA 200.8	877893
60444029005	**MW-12-121323**	EPA 200.8	877673	EPA 200.8	877893
60444029006	**MW-13-121323**	EPA 200.8	877673	EPA 200.8	877893
60444029007	**MW-14-121323**	EPA 200.8	877673	EPA 200.8	877893
60444029008	**TEC-BASA-DUP-121323**	EPA 200.8	877673	EPA 200.8	877893
60444029001	**MW-7-121423**	EPA 200.8	877868	EPA 200.8	877957
60444029002	**MW-8-121423**	EPA 200.8	877868	EPA 200.8	877957
60444029003	**MW-10-121423**	EPA 200.8	877868	EPA 200.8	877957
60444029004	**MW-11A-121323**	EPA 200.8	877868	EPA 200.8	877957
60444029005	**MW-12-121323**	EPA 200.8	877868	EPA 200.8	877957
60444029006	**MW-13-121323**	EPA 200.8	877868	EPA 200.8	877957
60444029007	**MW-14-121323**	EPA 200.8	877868	EPA 200.8	877957
60444029008	**TEC-BASA-DUP-121323**	EPA 200.8	877868	EPA 200.8	877957
60444029001	**MW-7-121423**	EPA 245.1	878776	EPA 245.1	878910
60444029002	**MW-8-121423**	EPA 245.1	878776	EPA 245.1	878910
60444029003	**MW-10-121423**	EPA 245.1	878776	EPA 245.1	878910
60444029004	**MW-11A-121323**	EPA 245.1	878776	EPA 245.1	878910
60444029005	**MW-12-121323**	EPA 245.1	878776	EPA 245.1	878910
60444029006	**MW-13-121323**	EPA 245.1	878776	EPA 245.1	878910

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: TEC BASA CCR-Revised Report
Pace Project No.: 60444029

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60444029007	**MW-14-121323**	EPA 245.1	878776	EPA 245.1	878910
60444029008	**TEC-BASA-DUP-121323**	EPA 245.1	878776	EPA 245.1	878910
60444029001	**MW-7-121423**	SM 2320B	878427		
60444029002	**MW-8-121423**	SM 2320B	878427		
60444029003	**MW-10-121423**	SM 2320B	878427		
60444029004	**MW-11A-121323**	SM 2320B	878214		
60444029005	**MW-12-121323**	SM 2320B	878214		
60444029006	**MW-13-121323**	SM 2320B	878214		
60444029007	**MW-14-121323**	SM 2320B	878214		
60444029008	**TEC-BASA-DUP-121323**	SM 2320B	878214		
60444029001	**MW-7-121423**	SM 2540C	877858		
60444029002	**MW-8-121423**	SM 2540C	877858		
60444029003	**MW-10-121423**	SM 2540C	877858		
60444029004	**MW-11A-121323**	SM 2540C	877856		
60444029005	**MW-12-121323**	SM 2540C	877856		
60444029006	**MW-13-121323**	SM 2540C	877856		
60444029007	**MW-14-121323**	SM 2540C	877856		
60444029008	**TEC-BASA-DUP-121323**	SM 2540C	877856		
60444029001	**MW-7-121423**	SM 3500-Fe B#4	879921		
60444029002	**MW-8-121423**	SM 3500-Fe B#4	879921		
60444029003	**MW-10-121423**	SM 3500-Fe B#4	879921		
60444029004	**MW-11A-121323**	SM 3500-Fe B#4	879921		
60444029005	**MW-12-121323**	SM 3500-Fe B#4	879921		
60444029006	**MW-13-121323**	SM 3500-Fe B#4	879921		
60444029007	**MW-14-121323**	SM 3500-Fe B#4	879921		
60444029008	**TEC-BASA-DUP-121323**	SM 3500-Fe B#4	879921		
60444029001	**MW-7-121423**	SM 4500-H+B	878249		
60444029002	**MW-8-121423**	SM 4500-H+B	878249		
60444029003	**MW-10-121423**	SM 4500-H+B	878249		
60444029004	**MW-11A-121323**	SM 4500-H+B	878249		
60444029005	**MW-12-121323**	SM 4500-H+B	878249		
60444029006	**MW-13-121323**	SM 4500-H+B	878249		
60444029007	**MW-14-121323**	SM 4500-H+B	878249		
60444029008	**TEC-BASA-DUP-121323**	SM 4500-H+B	878249		
60444029001	**MW-7-121423**	EPA 300.0	878457		
60444029002	**MW-8-121423**	EPA 300.0	878457		
60444029003	**MW-10-121423**	EPA 300.0	878457		
60444029004	**MW-11A-121323**	EPA 300.0	878457		
60444029005	**MW-12-121323**	EPA 300.0	878457		
60444029006	**MW-13-121323**	EPA 300.0	878457		
60444029007	**MW-14-121323**	EPA 300.0	878457		
60444029008	**TEC-BASA-DUP-121323**	EPA 300.0	878457		
60444029001	**MW-7-121423**	EPA 353.2	877320		
60444029002	**MW-8-121423**	EPA 353.2	877320		
60444029003	**MW-10-121423**	EPA 353.2	877320		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: TEC BASA CCR-Revised Report
Pace Project No.: 60444029

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60444029004	**MW-11A-121323**	EPA 353.2	877320		
60444029005	**MW-12-121323**	EPA 353.2	877320		
60444029006	**MW-13-121323**	EPA 353.2	877320		
60444029007	**MW-14-121323**	EPA 353.2	877320		
60444029008	**TEC-BASA-DUP-121323**	EPA 353.2	877320		
60444029001	**MW-7-121423**	EPA 365.4	879241	EPA 365.4	879345
60444029002	**MW-8-121423**	EPA 365.4	879241	EPA 365.4	879345
60444029003	**MW-10-121423**	EPA 365.4	879241	EPA 365.4	879345
60444029004	**MW-11A-121323**	EPA 365.4	879241	EPA 365.4	879345
60444029005	**MW-12-121323**	EPA 365.4	879241	EPA 365.4	879345
60444029006	**MW-13-121323**	EPA 365.4	879241	EPA 365.4	879345
60444029007	**MW-14-121323**	EPA 365.4	879241	EPA 365.4	879345
60444029008	**TEC-BASA-DUP-121323**	EPA 365.4	879241	EPA 365.4	879345
60444029001	**MW-7-121423**	SM 5310C	878422		
60444029002	**MW-8-121423**	SM 5310C	878422		
60444029003	**MW-10-121423**	SM 5310C	878422		
60444029004	**MW-11A-121323**	SM 5310C	878422		
60444029005	**MW-12-121323**	SM 5310C	878422		
60444029006	**MW-13-121323**	SM 5310C	878422		
60444029007	**MW-14-121323**	SM 5310C	878422		
60444029008	**TEC-BASA-DUP-121323**	SM 5310C	878422		
60444029001	**MW-7-121423**	SM 5310C	878425		
60444029002	**MW-8-121423**	SM 5310C	878425		
60444029003	**MW-10-121423**	SM 5310C	878425		
60444029004	**MW-11A-121323**	SM 5310C	878425		
60444029005	**MW-12-121323**	SM 5310C	878425		
60444029006	**MW-13-121323**	SM 5310C	878425		
60444029007	**MW-14-121323**	SM 5310C	878425		
60444029008	**TEC-BASA-DUP-121323**	SM 5310C	878425		

This report shall not be reproduced, except in full,
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Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-LENE-0009_Sample Co	
	Revision: 2	Effective Date: 01/12/2022

WO# : 60444029

60444029

Client Name: Evergy

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 ☑ Zplc

Thermometer Used: T298 **Type of Ice:** (Wet) Blue None

Cooler Temperature (°C): **As-read** 5.9 **Corr. Factor** -0.3 **Corrected** 5.6

Date and initials of person examining contents: 12-15-2023 ME

Temperature should be above freezing to 6°C 2.9, 3.1, 4.7, 2.7 2.6, 2.8, 4.4, 2.4

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	NOX
Rush Turn Around Time requested:	☐Yes ☑No ☐N/A	
Sufficient volume:	☑Yes ☐No ☐N/A	
Correct containers used:	☑Yes ☐No ☐N/A	Did not receive BPJZ
Pace containers used:	☑Yes ☐No ☐N/A	for sulfide received BPJC
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# 57187, 55199 55200, 80620	☐Yes ☑No ☐N/A	List sample IDs, volumes, lot #'s of preservative and the date/time added. 1 of 2 BPJN for MW-7 had PH of 3 added IMC HNO3 Final 1.5
Cyanide water sample checks: Lead acetate strip turns dark? (Record only)	☐Yes ☑No	
Potassium iodide test strip turns blue/purple? (Preserve)	☐Yes ☑No	Lot # 72757
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: of

Section A Required Client Information:

Company:	EVERGY KANSAS CENTRAL, INC.
Address:	400 E. Van Buren St
	Suite 545 Phoenix, AZ 85004
Email To:	skaney@haleyaldrich.com
Phone: 507-251-2232	Fax:
Requested Due Date/TAT:	

Section B Required Project Information:

Report To:	Jake Humphrey
Copy To:	Laura Hines, Samantha Kaney, Melissa Michels
Purchase Order No.:	10JEC-0000047747
Project Name:	TEC BASA
Project Number:	

Section C Invoice Information:

Attention:	Accounts Payable
Company Name:	EVERGY KANSAS CENTRAL, INC
Address:	SEE SECTION A
Pace Quote Reference:	
Pace Project Manager:	Alice Spiller, 913-563-1403
Pace Profile #:	9657, 9

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER

☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: KS

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
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

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	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED 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	200.8 Sb,As,Ba,Be,Cd,Cr	Cr,Co,Pb,Mo,Se,Tl	6010 Lithium	245.1 Mercury	300.0 Fluoride		Radium 226/228+combine	Radium QC Sheets					Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MW-7	WT	G			12/14/23	12:55		4	X		X						X	X	X	X	X		X	X					60444029
2	MW-8	WT	G			12/14/23	11:20			X		X						X	X	X	X	X		X	X					
3	MW-10	WT	G			12/14/23	9:40			X		X						X	X	X	X	X		X	X					
4	MW-11A	WT	G			12/13/23	12:05			X		X						X	X	X	X	X		X	X					
5	MW-12	WT	G			12/13/23	14:10			X		X						X	X	X	X	X		X	X					
6	MW-13	WT	G			12/13/23	15:40			X		X						X	X	X	X	X		X	X					
7	MW-14	WT	G			12/13/23	16:50			X		X						X	X	X	X	X		X	X					
8	TEC-BASA-Dup 01	WT	G			12/13/23				X		X						X	X	X	X	X		X	X					
9																														
10																														
11																														
12																														

Pace Project No./ Lab I.D.: 60444029

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	B. Coleman/TEC engr.	12/14/23	1600	JD Pace	12/14/23	1620	2-6	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: B. Coleman

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 12/14/23

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.

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CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: of

Section A — **Required** Client Information:

Company:	EVERGY KANSAS CENTRAL, INC.
Address:	Jeffrey Energy Center (JEC)
	818 Kansas Ave, Topeka, KS 66612
Email To:	skaney@haleyaldrich.com
Phone: 785-575-8113	Fax:
Requested Due Date/TAT:	7 day

Section B — **Required** Project Information:

Report To:	Melissa Michels, Samantha Kaney,
Copy To:	Jared Morrison, Jake Humphrey, Laura Hines
Purchase Order No.:	
Project Name:	TEC BASA CCR
Project Number:	

Section C — Invoice Information:

Attention:	Accounts Payable
Company Name:	EVERGY KANSAS CENTRAL, INC
Address:	See Section A
Pace Quote Reference:	
Pace Project Manager:	Alice Spiller 913-563-1403
Pace Profile #:	9657, 12

REGULATORY AGENCY

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

Site Location — ***STATE:*** KS

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
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

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	COLLECTED: COMPOSITE START TIME	COLLECTED: COMPOSITE END/GRAB DATE	COLLECTED: 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	Y/N	Analysis Test: Total Metals B,Ca,Mg,Na	K,Al, Fe,Mn	Diss As,Co,Fe,Al,Mg,Mn	300.0 Cl,F,SO4	Ferrous Iron **immediate	Total Hardness	Alkalinity, bicarb/carb	Sulfide / TDS	Nitrate, Nitrite **48hr hold	Total Phosphorus	TOC / DOC	pH	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MW-7	WT	G			12/14/23	12:55		11	X	X	X		X	X				X	X	X	X	X	X	X	X	X	X	X		60444029
2	MW-8	WT	G			12/14/23	11:20		11	X	X	X		X	X				X	X	X	X	X	X	X	X	X	X	X		
3	MW-10	WT	G			12/14/23	9:40		11	X	X	X		X	X				X	X	X	X	X	X	X	X	X	X	X		
4	MW-11A	WT	G			12/13/23	12:05		11	X	X	X		X	X				X	X	X	X	X	X	X	X	X	X	X		
5	MW-12	WT	G			12/13/23	14:10		11	X	X	X		X	X				X	X	X	X	X	X	X	X	X	X	X		
6	MW-13	WT	G			12/13/23	15:40		11	X	X	X		X	X				X	X	X	X	X	X	X	X	X	X	X		
7	MW-14	WT	G			12/13/23	16:50		11	X	X	X		X	X				X	X	X	X	X	X	X	X	X	X	X		
8	TEC-BASA-Dup 01	WT	G			12/13/23			11	X	X	X		X	X				X	X	X	X	X	X	X	X	X	X	X		
9																															
10																															
11																															
12																															

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	B. Coleman/SCS/KMC	12-14-23	1600	JT Pace	12/14/23	1620	2-6	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: B. Coleman

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM/DD/YY): 12-14-23

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: Evergy

Profile #

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	BP3C	BP3Z	WPDU	ZPLC	Other		
1	WT												2						1		4		1	1	1	1						
2	↓												2						1		4		1	1	1	1						
3													2						1		4		1	1	1	1						
4													2						1		4		1	1	1	1						
5													2						1		4		1	1	1	1						
6													2						1		4		1	1	1	1						
7													2						1		4		1	1	1	1						
8	↓												2						1		4		1	1	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	
BP1C	1L NAOH plastic
BP1N	1L HNO3 plastic
BP1S	1L H2SO4 plastic
BP1U	1L unpreserved plastic
BP1Z	1L NaOH, Zn Acetate
BP2C	500mL NAOH plastic
BP2N	500mL HNO3 plastic
BP2S	500mL H2SO4 plastic
BP2U	500mL unpreserved plastic
BP2Z	500mL NaOH, Zn Acetate
BP3C	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: 60411 4029

Client: Evergy

Profile #

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	BP3C	BP3Z	WPDU	ZPLC	Other		
1	WT																				1	2	1									
2																					1	2	1									
3																					1	2	1									
4																					1	2	1									
5																					1	2	1									
6																					1	2	1									
7																					1	2	1									
8																					1	2	1									
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11																																
12																																

Container Codes

Glass			
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DG9M	40mL MeOH clear vial	WG2U	2oz clear soil jar
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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	
BP1C	1L NAOH plastic
BP1N	1L HNO3 plastic
BP1S	1L H2SO4 plastic
BP1U	1L unpreserved plastic
BP1Z	1L NaOH, Zn Acetate
BP2C	500mL NAOH plastic
BP2N	500mL HNO3 plastic
BP2S	500mL H2SO4 plastic
BP2U	500mL unpreserved plastic
BP2Z	500mL NaOH, Zn Acetate
BP3C	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: 604414029

CHAIN-OF-CUSTODY / Analytical Request Document

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

Pace Analytical™ www.pacelabs.com

Page: of

Section A — **Required** Client Information:

Company:	EVERGY KANSAS CENTRAL, INC.
Address:	400 E. Van Buren St
	Suite 545 Phoenix, AZ 85004
Email To:	skaney@haleyaldrich.com
Phone: 507-251-2232	Fax:
Requested Due Date/TAT:	

Section B — **Required** Project Information:

Report To:	Jake Humphrey
Copy To:	Laura Hines, Samantha Kaney, Melissa Michels
Purchase Order No.:	10JEC-0000047747
Project Name:	TEC BASA
Project Number:	

Section C — Invoice Information:

Attention:	Accounts Payable
Company Name:	EVERGY KANSAS CENTRAL, INC
Address:	SEE SECTION A
Pace Quote Reference:	
Pace Project Manager:	Alice Spiller, 913-563-1403
Pace Profile #:	9657, 9

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER

☐ UST ☐ RCRA ☐ OTHER _____

Site Location — ***STATE:*** KS

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
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

Requested Analysis Filtered (Y/N)

ITEM #	Section D Required Client Information	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED: COMPOSITE START DATE	COLLECTED: COMPOSITE START TIME	COLLECTED: COMPOSITE END/GRAB DATE	COLLECTED: 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	200.8 Sb,As,Ba,Be,Cd,Cr	Cr,Co,Pb,Mo,Se,Tl	6010 Lithium	245.1 Mercury	300.0 Fluoride		Radium 226/228+combine	Radium QC Sheets					Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
																		Y/N	N	N	N	N	N		N	N							
1	MW-7-121423	WT	G	-	-	12/14/23	12:55		4	X		X							X	X	X	X	X		X	X							
2	MW-8-121423	WT	G	-	-	12/14/23	11:20		4	X		X							X	X	X	X	X		X	X							
3	MW-10-121423	WT	G	-	-	12/14/23	9:40		4	X		X							X	X	X	X	X		X	X							
4	MW-11A-121323	WT	G	-	-	12/13/23	12:05		4	X		X							X	X	X	X	X		X	X							
5	MW-12-121323	WT	G	-	-	12/13/23	14:10		4	X		X							X	X	X	X	X		X	X							
6	MW-13-121323	WT	G	-	-	12/13/23	15:40		4	X		X							X	X	X	X	X		X	X							
7	MW-14-121323	WT	G	-	-	12/13/23	16:50		4	X		X							X	X	X	X	X		X	X							
8	TEC-BASA-Dup-121323	WT	G	-	-	12/13/23	12:05		4	X		X							X	X	X	X	X		X	X							
9																																
10																																
11																																
12																																

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Matt VanderPutten / SCS	12/14/23					

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Matt VanderPutten

SIGNATURE of SAMPLER:

DATE Signed (MM/DD/YY): 12/14/23

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.

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

January 09, 2024

Jake Humphrey
Evergy, Inc.
818 S Kansas Avenue
Topeka, KS 66612

RE: Project: TEC BASA-Revised Report
Pace Project No.: 60444030

Dear Jake Humphrey:

Enclosed are the analytical results for sample(s) received by the laboratory on December 14, 2023. 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 - Greensburg

REVISED to include QC sheets in report package. No data was changed.

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

Sincerely,

Alice Spiller

Alice Spiller
alice.spiller@pacelabs.com
(913)599-5665
PM Lab Management

Enclosures

cc: Shelly Gomez, Evergy
Laura Hines, Evergy, Inc.
Shannon Hughes, Evergy
Adam Irvin, Evergy
Samantha Kaney, Haley & Aldrich
Melanie Satanek, Haley Aldrich
Adriana Sosa, Haley & Aldrich, Inc.
Andrew Watson, Haley & Aldrich

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CERTIFICATIONS

Project: TEC BASA-Revised Report
Pace Project No.: 60444030

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

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SAMPLE SUMMARY

Project: TEC BASA-Revised Report
Pace Project No.: 60444030

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60444030001	**MW-7**	Water	12/14/23 12:55	12/14/23 16:20
60444030002	**MW-8**	Water	12/14/23 11:20	12/14/23 16:20
60444030003	**MW-10**	Water	12/14/23 09:40	12/14/23 16:20
60444030004	**MW-11A**	Water	12/13/23 12:05	12/14/23 16:20
60444030005	**MW-12**	Water	12/13/23 14:10	12/14/23 16:20
60444030006	**MW-13**	Water	12/13/23 15:40	12/14/23 16:20
60444030007	**MW-14**	Water	12/13/23 16:50	12/14/23 16:20
60444030008	**TEC-BASA-DUP 01**	Water	12/13/23 00:00	12/14/23 16:20

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SAMPLE ANALYTE COUNT

Project: TEC BASA-Revised Report
Pace Project No.: 60444030

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60444030001	**MW-7**	EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
60444030002	**MW-8**	EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
60444030003	**MW-10**	EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
60444030004	**MW-11A**	EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
60444030005	**MW-12**	EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
60444030006	**MW-13**	EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
60444030007	**MW-14**	EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
60444030008	**TEC-BASA-DUP 01**	EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

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PROJECT NARRATIVE

Project: TEC BASA-Revised Report
Pace Project No.: 60444030

Method: **EPA 903.1**
Description: 903.1 Radium 226
Client: Evergy Kansas Central, Inc.
Date: January 09, 2024

General Information:
8 samples were analyzed for EPA 903.1 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA-Revised Report
Pace Project No.: 60444030

Method: **EPA 904.0**
Description: 904.0 Radium 228
Client: Evergy Kansas Central, Inc.
Date: January 09, 2024

General Information:
8 samples were analyzed for EPA 904.0 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA-Revised Report
Pace Project No.: 60444030

Method: **Total Radium Calculation**
Description: Total Radium 228+226
Client: Evergy Kansas Central, Inc.
Date: January 09, 2024

General Information:
8 samples were analyzed for Total Radium Calculation by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: TEC BASA-Revised Report
Pace Project No.: 60444030

Sample: MW-7 **Lab ID: 60444030001** Collected: 12/14/23 12:55 Received: 12/14/23 16:20 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 ± 0.441 (0.893) C:NA T:88%**	pCi/L	01/05/24 11:47	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**-0.641 ± 1.08 (2.61) C:89% T:26%**	pCi/L	01/04/24 14:53	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.000 ± 1.52 (3.50)**	pCi/L	01/05/24 15:28	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: TEC BASA-Revised Report
Pace Project No.: 60444030

Sample: MW-8 **Lab ID: 60444030002** Collected: 12/14/23 11:20 Received: 12/14/23 16:20 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	**-0.231 ± 0.394 (0.918) C:NA T:86%**	pCi/L	01/05/24 11:59	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.779 ± 0.811 (1.69) C:90% T:37%**	pCi/L	01/04/24 14:54	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.779 ± 1.21 (2.61)**	pCi/L	01/05/24 15:28	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: TEC BASA-Revised Report
Pace Project No.: 60444030

Sample: MW-10 **Lab ID: 60444030003** Collected: 12/14/23 09:40 Received: 12/14/23 16:20 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 ± 0.586 (1.16) C:NA T:86%**	pCi/L	01/05/24 11:59	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**1.76 ± 0.601 (0.860) C:85% T:74%**	pCi/L	01/04/24 14:54	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.76 ± 1.19 (2.02)**	pCi/L	01/05/24 15:28	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: TEC BASA-Revised Report
Pace Project No.: 60444030

Sample: MW-11A **Lab ID: 60444030004** Collected: 12/13/23 12:05 Received: 12/14/23 16:20 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	**1.17 ± 0.605 (0.698) C:NA T:88%**	pCi/L	01/05/24 11:59	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**2.04 ± 0.648 (0.847) C:78% T:73%**	pCi/L	01/04/24 12:32	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**3.21 ± 1.25 (1.55)**	pCi/L	01/05/24 15:28	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: TEC BASA-Revised Report
Pace Project No.: 60444030

Sample: MW-12 **Lab ID: 60444030005** Collected: 12/13/23 14:10 Received: 12/14/23 16:20 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	**0.967 ± 0.590 (0.746) C:NA T:84%**	pCi/L	01/05/24 11:59	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**2.11 ± 0.636 (0.753) C:75% T:75%**	pCi/L	01/04/24 12:32	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**3.08 ± 1.23 (1.50)**	pCi/L	01/05/24 15:28	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: TEC BASA-Revised Report
Pace Project No.: 60444030

Sample: MW-13 **Lab ID: 60444030006** Collected: 12/13/23 15:40 Received: 12/14/23 16:20 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	**0.173 ± 0.610 (1.13) C:NA T:81%**	pCi/L	01/05/24 11:59	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.782 ± 0.412 (0.716) C:72% T:81%**	pCi/L	01/04/24 12:33	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.955 ± 1.02 (1.85)**	pCi/L	01/05/24 15:28	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: TEC BASA-Revised Report
Pace Project No.: 60444030

Sample: MW-14 **Lab ID: 60444030007** Collected: 12/13/23 16:50 Received: 12/14/23 16:20 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	**0.605 ± 0.447 (0.606) C:NA T:94%**	pCi/L	01/05/24 11:59	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.998 ± 0.444 (0.722) C:76% T:80%**	pCi/L	01/04/24 12:33	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.60 ± 0.891 (1.33)**	pCi/L	01/05/24 15:28	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: TEC BASA-Revised Report
Pace Project No.: 60444030

Sample: TEC-BASA-DUP 01 **Lab ID: 60444030008** Collected: 12/13/23 00:00 Received: 12/14/23 16:20 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	**0.954 ± 0.657 (0.896) C:NA T:83%**	pCi/L	01/05/24 11:59	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**1.88 ± 0.587 (0.751) C:74% T:84%**	pCi/L	01/04/24 12:33	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**2.83 ± 1.24 (1.65)**	pCi/L	01/05/24 15:28	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: TEC BASA-Revised Report
Pace Project No.: 60444030

QC Batch: 637866
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: 60444030001, 60444030002, 60444030003, 60444030004, 60444030005, 60444030006, 60444030007, 60444030008

METHOD BLANK: 3111212 Matrix: Water
Associated Lab Samples: 60444030001, 60444030002, 60444030003, 60444030004, 60444030005, 60444030006, 60444030007, 60444030008

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.255 ± 0.343 (0.734) C:88% T:78%	pCi/L	01/04/24 11:49	

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.

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QUALITY CONTROL - RADIOCHEMISTRY

Project: TEC BASA-Revised Report
Pace Project No.: 60444030

QC Batch: 637865
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: 60444030001, 60444030002, 60444030003, 60444030004, 60444030005, 60444030006, 60444030007, 60444030008

METHOD BLANK: 3111208 Matrix: Water
Associated Lab Samples: 60444030001, 60444030002, 60444030003, 60444030004, 60444030005, 60444030006, 60444030007, 60444030008

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0418 ± 0.272 (0.548) C:NA T:89%	pCi/L	01/05/24 11:47	

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

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QUALIFIERS

Project: TEC BASA-Revised Report
Pace Project No.: 60444030

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.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: TEC BASA-Revised Report
Pace Project No.: 60444030

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60444030001	**MW-7**	EPA 903.1	637865		
60444030002	**MW-8**	EPA 903.1	637865		
60444030003	**MW-10**	EPA 903.1	637865		
60444030004	**MW-11A**	EPA 903.1	637865		
60444030005	**MW-12**	EPA 903.1	637865		
60444030006	**MW-13**	EPA 903.1	637865		
60444030007	**MW-14**	EPA 903.1	637865		
60444030008	**TEC-BASA-DUP 01**	EPA 903.1	637865		
60444030001	**MW-7**	EPA 904.0	637866		
60444030002	**MW-8**	EPA 904.0	637866		
60444030003	**MW-10**	EPA 904.0	637866		
60444030004	**MW-11A**	EPA 904.0	637866		
60444030005	**MW-12**	EPA 904.0	637866		
60444030006	**MW-13**	EPA 904.0	637866		
60444030007	**MW-14**	EPA 904.0	637866		
60444030008	**TEC-BASA-DUP 01**	EPA 904.0	637866		
60444030001	**MW-7**	Total Radium Calculation	640555		
60444030002	**MW-8**	Total Radium Calculation	640555		
60444030003	**MW-10**	Total Radium Calculation	640555		
60444030004	**MW-11A**	Total Radium Calculation	640555		
60444030005	**MW-12**	Total Radium Calculation	640555		
60444030006	**MW-13**	Total Radium Calculation	640555		
60444030007	**MW-14**	Total Radium Calculation	640555		
60444030008	**TEC-BASA-DUP 01**	Total Radium Calculation	640555		

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Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-LENE-0009_Sampl	WO# : 60444030
	Revision: 2 / Effective Date: 01/12/202	60444030

Client Name: Evergy

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 ☑ Zip lc

Thermometer Used: T298 **Type of Ice:** Wet Blue None

Cooler Temperature (°C): **As-read** 2.9 **Corr. Factor** -0.3 **Corrected** 2.6 / 4.4

Temperature should be above freezing to 6°C 4.7

Date and initials of person examining contents: 12.15.2023 M

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: _____

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: of

Section A — **Required** Client Information:

Company:	EVERGY KANSAS CENTRAL, INC.
Address:	400 E. Van Buren St
	Suite 545 Phoenix, AZ 85004
Email To:	skaney@haleyaldrich.com
Phone: 507-251-2232	Fax:
Requested Due Date/TAT:	

Section B — **Required** Project Information:

Report To:	Jake Humphrey
Copy To:	Laura Hines, Samantha Kaney, Melissa Michels
Purchase Order No.:	10JEC-0000047747
Project Name:	TEC BASA
Project Number:	

Section C — Invoice Information:

Attention:	Accounts Payable
Company Name:	EVERGY KANSAS CENTRAL, INC
Address:	SEE SECTION A
Pace Quote Reference:	
Pace Project Manager:	Alice Spiller, 913-563-1403
Pace Profile #:	9657, 9

REGULATORY AGENCY

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

Site Location **STATE:** KS

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
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

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	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED 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	200.8 Sb,As,Ba,Be,Cd,Cr	Cr,Co,Pb,Mo,Se,Tl	6010 Lithium	245.1 Mercury	300.0 Fluoride		Radium 226/228+combine	Radium QC Sheets					Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MW-7	WT	G			12/14/23	12:55		4	X		X						X	X	X	X	X		X	X					60441010
2	MW-8	WT	G			12/14/23	11:20			X		X						X	X	X	X	X		X	X					
3	MW-10	WT	G			12/14/23	9:40			X		X						X	X	X	X	X		X	X					
4	MW-11A	WT	G			12/13/23	12:05			X		X						X	X	X	X	X		X	X					
5	MW-12	WT	G			12/13/23	14:10			X		X						X	X	X	X	X		X	X					
6	MW-13	WT	G			12/13/23	15:40			X		X						X	X	X	X	X		X	X					
7	MW-14	WT	G			12/13/23	16:50			X		X						X	X	X	X	X		X	X					
8	TEC-BASA-Dup 01	WT	G			12/13/23				X		X						X	X	X	X	X		X	X					
9																															
10																															
11																															
12																															

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	B. Coleman/TEC Eng.	12/14/23	1600	DAPace	12/14/23	1620	2.6	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: B. Coleman

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 12/14/23

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.

Internal Transfer Chain of Custody

☐ Rush Multiplier____X
☒ Samples Pre-Logged into eCOC

State Of Origin: KS
Cert. Needed: ☒ Yes ☐ No

Workorder: 60444030 **Workorder Name:** TEC BASA

Owner Received Date: 12/14/2023 **Results Requested By:** 1/16/2024

Report To	Subcontract To
Alice Spiller Pace Analytical Kansas 9608 Loiret Blvd. Lenexa, KS 66219 Phone (913)599-5665	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 226/228 combined + QC	Radium 226	Radium 228									LAB USE ONLY
1	MW-7	PS	12/14/2023 12:55	60444030001	Water	1						X	X	X									001
2	MW-8	PS	12/14/2023 11:20	60444030002	Water	1						X	X	X									002
3	MW-10	PS	12/14/2023 09:40	60444030003	Water	1						X	X	X									003
4	MW-11A	PS	12/13/2023 12:05	60444030004	Water	1						X	X	X									004
5	MW-12	PS	12/13/2023 14:10	60444030005	Water	1						X	X	X									005
6	MW-13	PS	12/13/2023 15:40	60444030006	Water	1						X	X	X									006
7	MW-14	PS	12/13/2023 16:50	60444030007	Water	1						X	X	X									007
8	TEC-BASA-DUP 01	PS	12/13/2023 00:00	60444030008	Water	1						X	X	X									008

Transfers	Released By	Date/Time	Received By	Date/Time
1	[illegible] 12.18.23 1700		[illegible] 12/18	1810
2				
3				

Comments

KS sample 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# : 30648378

30648378

DC#_Title: ENV-FRM-GBUR-0088 v06_Sample Condition Upon Receipt-Pittsburgh

Effective Date: 09/20/2023

WO# : 30648378

PM: MAR **Due Date: 01/11/24**

CLIENT: PACE_60_LEKS

Client Name: Pace-KS

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other

Tracking Number: 7146 2372 7785

	Initial / Date
Examined By:	PS 12/20/23
Labeled By:	PS 12/20/23
Temped By:	BRC 12-19-23

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

Thermometer Used: 17 **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

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: -Includes date/time/ID Matrix: WT				5.
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:			✓	15:
All containers checked for preservation: exceptions: VOA, coliform, TOC, O&G, Phenolics, Radon, non-aqueous matrix	✓			16. 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.
Trip Blank Present:			✓	Trip blank custody seal present? YES or NO
Rad Samples Screened <.05 mrem/hr.	✓			Initial when completed: BRC Date: 12-19-23 Survey Meter SN: 3501138C

pH paper Lot#	D.P.D. Residual Chlorine Lot #
1000134	—

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.

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Test: Ra-226
Analyst: LL1
Date: 12/27/2024
Batch ID: 76980
Matrix: DW

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3111208
MB concentration:	0.042
M/B Counting Uncertainty:	0.272
MB MDC:	0.548
MB Numerical Performance Indicator:	0.30
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS76980	LCSD76980
Count Date:	1/5/2024	1/5/2024
Spike I.D.:	23-013	23-013
Spike Concentration (pCi/mL):	32.278	32.278
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.651	0.654
Target Conc. (pCi/L, g, F):	4.959	4.936
Uncertainty (Calculated):	0.233	0.232
Result (pCi/L, g, F):	5.276	5.219
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.935	0.948
Numerical Performance Indicator:	0.65	0.57
Percent Recovery:	106.41%	105.73%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	133%	133%
Lower % Recovery Limits:	73%	73%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS76980	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD76980	
Sample Result (pCi/L, g, F):	5.276	
Sample Result Counting Uncertainty (pCi/L, g, F):	0.935	
Sample Duplicate Result (pCi/L, g, F):	5.219	
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.948	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	0.084	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	0.64%	
Duplicate Status vs Numerical Indicator:	N/A	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	32%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the RL.

Comments:

CM 1/5/24

LL 01 05 24

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Test:	Ra-228
Analyst:	ZPC
Date:	12/29/2023
Worklist:	76981
Matrix:	WI

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3111212
MB concentration:	0.255
M/B 2 Sigma CSU:	0.343
MB MDC:	0.734
MB Numerical Performance Indicator:	1.46
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS76981	LCSD76981
Count Date:	1/4/2024	1/4/2024
Spike I.D.:	23-043	23-043
Decay Corrected Spike Concentration (pCi/mL):	38.380	38.380
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.818	0.815
Target Conc. (pCi/L, g, F):	4.691	4.707
Uncertainty (Calculated):	0.230	0.231
Result (pCi/L, g, F):	3.848	3.437
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.943	0.845
Numerical Performance Indicator:	-1.70	-2.84
Percent Recovery:	82.03%	73.03%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS76981	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD76981	
Sample Result (pCi/L, g, F):	3.848	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.943	
Sample Duplicate Result (pCi/L, g, F):	3.437	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.845	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	0.636	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	11.60%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	36%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

MRH 1-5-24

1/5/24

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

February 19, 2024

Jake Humphrey
Evergy, Inc.
818 S Kansas Avenue
Topeka, KS 66612

RE: Project: TEC BASA
Pace Project No.: 60446521

Dear Jake Humphrey:

Enclosed are the analytical results for sample(s) received by the laboratory on February 02, 2024. 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,

Alice Spiller

Alice Spiller
alice.spiller@pacelabs.com
(913)599-5665
PM Lab Management

Enclosures

cc: Shelly Gomez, Evergy
Laura Hines, Evergy, Inc.
Shannon Hughes, Evergy
Adam Irvin, Evergy
Samantha Kaney, Haley & Aldrich
Melanie Satanek, Haley Aldrich
Adriana Sosa, Haley & Aldrich, Inc.
Andrew Watson, Haley & Aldrich

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

CERTIFICATIONS

Project: TEC BASA
Pace Project No.: 60446521

Pace Analytical Services Kansas

9608 Loiret Boulevard, Lenexa, KS 66219
Missouri Inorganic Drinking Water Certification #: 10090
Arkansas Drinking Water
Arkansas Certification #: 88-00679
Illinois Certification #: 2000302023-5
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212023-1
Oklahoma Certification #: 2022-057
Florida: Cert E871149 SEKS WET
Texas Certification #: T104704407-23-17
Utah Certification #: KS000212022-12
Illinois Certification #: 004592
Kansas Field Laboratory Accreditation: # E-92587
Missouri SEKS Micro Certification: 10070

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9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

SAMPLE SUMMARY

Project: TEC BASA
Pace Project No.: 60446521

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60446521001	**MW-11A-013124**	Water	01/31/24 14:00	02/02/24 17:40
60446521002	**MW-12-020224**	Water	02/01/24 11:30	02/02/24 17:40
60446521003	**MW-13-020124**	Water	02/01/24 13:25	02/02/24 17:40
60446521004	**MW-14-020124**	Water	02/01/24 09:35	02/02/24 17:40
60446521005	**TEC-BASA-DUP-1-013124**	Water	01/31/24 14:00	02/02/24 17:40

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Lenexa, KS 66219
(913)599-5665

SAMPLE ANALYTE COUNT

Project: TEC BASA
Pace Project No.: 60446521

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60446521001	**MW-11A-013124**	EPA 200.7	JXD	6	PASI-K
		EPA 6010	JXD	1	PASI-K
		EPA 200.8	JGP	7	PASI-K
		EPA 245.1	ACLC	1	PASI-K
		SM 2540C	KVI	1	PASI-K
		SM 4500-H+B	RKA	1	PASI-K
		EPA 300.0	RKA	3	PASI-K
60446521002	**MW-12-020224**	EPA 200.7	JXD	6	PASI-K
		EPA 6010	JXD	1	PASI-K
		EPA 200.8	JGP	7	PASI-K
		EPA 245.1	ACLC	1	PASI-K
		SM 2540C	KVI	1	PASI-K
		SM 4500-H+B	RKA	1	PASI-K
		EPA 300.0	RKA	3	PASI-K
60446521003	**MW-13-020124**	EPA 200.7	JXD	6	PASI-K
		EPA 6010	JXD	1	PASI-K
		EPA 200.8	JGP	7	PASI-K
		EPA 245.1	ACLC	1	PASI-K
		SM 2540C	KVI	1	PASI-K
		SM 4500-H+B	RKA	1	PASI-K
		EPA 300.0	RKA	3	PASI-K
60446521004	**MW-14-020124**	EPA 200.7	JXD	6	PASI-K
		EPA 6010	JXD	1	PASI-K
		EPA 200.8	JGP	7	PASI-K
		EPA 245.1	ACLC	1	PASI-K
		SM 2540C	KVI	1	PASI-K
		SM 4500-H+B	RKA	1	PASI-K
		EPA 300.0	RKA	3	PASI-K
60446521005	**TEC-BASA-DUP-1-013124**	EPA 200.7	JXD	6	PASI-K
		EPA 6010	JXD	1	PASI-K
		EPA 200.8	JGP	7	PASI-K
		EPA 245.1	ACLC	1	PASI-K
		SM 2540C	KVI	1	PASI-K
		SM 4500-H+B	RKA	1	PASI-K
		EPA 300.0	RKA	3	PASI-K

PASI-K = Pace Analytical Services - Kansas City

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(913)599-5665

PROJECT NARRATIVE

Project: TEC BASA
Pace Project No.: 60446521

Method: **EPA 200.7**
Description: 200.7 Metals, Total
Client: Evergy Kansas Central, Inc.
Date: February 19, 2024

General Information:
5 samples were analyzed for EPA 200.7 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 200.7 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 882426

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60446515002,60446515010

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 3493140)
  - Calcium
- MS (Lab ID: 3493142)
  - Calcium
- MSD (Lab ID: 3493141)
  - Calcium

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA
Pace Project No.: 60446521

Method: **EPA 6010**
Description: 6010 MET ICP
Client: Evergy Kansas Central, Inc.
Date: February 19, 2024

General Information:
5 samples were analyzed for EPA 6010 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA
Pace Project No.: 60446521

Method: **EPA 200.8**
Description: 200.8 MET ICPMS
Client: Evergy Kansas Central, Inc.
Date: February 19, 2024

General Information:
5 samples were analyzed for EPA 200.8 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 200.8 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA
Pace Project No.: 60446521

Method: **EPA 245.1**
Description: 245.1 Mercury
Client: Evergy Kansas Central, Inc.
Date: February 19, 2024

General Information:
5 samples were analyzed for EPA 245.1 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 245.1 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 882677

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60446515001,60446515010

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 3494093)
  - Mercury
- MS (Lab ID: 3494123)
  - Mercury
- MSD (Lab ID: 3494094)
  - Mercury

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA
Pace Project No.: 60446521

Method: **SM 2540C**
Description: 2540C Total Dissolved Solids
Client: Evergy Kansas Central, Inc.
Date: February 19, 2024

General Information:
5 samples were analyzed for SM 2540C by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

QC Batch: 882661

L1: Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.

- LCS (Lab ID: 3494040)
  - Total Dissolved Solids

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

QC Batch: 882661

D6: The precision between the sample and sample duplicate exceeded laboratory control limits.

- DUP (Lab ID: 3494041)
  - Total Dissolved Solids
- DUP (Lab ID: 3494042)
  - Total Dissolved Solids

Additional Comments:

Analyte Comments:

QC Batch: 882538

PP: The mass of dried residue obtained did not meet the test method requirements based on volume used.

- MW-11A-013124 (Lab ID: 60446521001)
  - Total Dissolved Solids

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PROJECT NARRATIVE

Project: TEC BASA
Pace Project No.: 60446521

Method: **SM 4500-H+B**
Description: 4500H+ pH, Electrometric
Client: Evergy Kansas Central, Inc.
Date: February 19, 2024

General Information:
5 samples were analyzed for SM 4500-H+B by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

H6: Analysis initiated outside of the 15 minute EPA required holding time.
- MW-11A-013124 (Lab ID: 60446521001)
- MW-12-020224 (Lab ID: 60446521002)
- MW-13-020124 (Lab ID: 60446521003)
- MW-14-020124 (Lab ID: 60446521004)
- TEC-BASA-DUP-1-013124 (Lab ID: 60446521005)

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA
Pace Project No.: 60446521

Method: **EPA 300.0**
Description: 300.0 IC Anions 28 Days
Client: Evergy Kansas Central, Inc.
Date: February 19, 2024

General Information:
5 samples were analyzed for EPA 300.0 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 882572

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60446484015,60446515005

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 3493676)
  - Sulfate

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: TEC BASA
Pace Project No.: 60446521

Sample: MW-11A-013124 **Lab ID: 60446521001** Collected: 01/31/24 14:00 Received: 02/02/24 17:40 Matrix: Water

Parameters	Results	Units	Report Limit	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, Total Recoverable	**0.072**	mg/L	0.0050	1	02/06/24 11:43	02/19/24 13:57	7440-39-3	
Beryllium, Total Recoverable	**<0.0010**	mg/L	0.0010	1	02/06/24 11:43	02/19/24 13:57	7440-41-7	
Boron, Total Recoverable	**0.48**	mg/L	0.10	1	02/06/24 11:43	02/19/24 13:57	7440-42-8	
Calcium, Total Recoverable	**235**	mg/L	0.20	1	02/06/24 11:43	02/19/24 13:57	7440-70-2	
Chromium, Total Recoverable	**<0.0050**	mg/L	0.0050	1	02/06/24 11:43	02/19/24 13:57	7440-47-3	
Lead, Total Recoverable	**<0.010**	mg/L	0.010	1	02/06/24 11:43	02/19/24 13:57	7439-92-1	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Kansas City							
Lithium, Total Recoverable	**0.040**	mg/L	0.010	1	02/06/24 11:43	02/19/24 13:57	7439-93-2	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City							
Antimony, Total Recoverable	**<0.0010**	mg/L	0.0010	1	02/06/24 11:43	02/07/24 14:45	7440-36-0	
Arsenic, Total Recoverable	**0.0031**	mg/L	0.0010	1	02/06/24 11:43	02/07/24 14:45	7440-38-2	
Cadmium, Total Recoverable	**<0.00050**	mg/L	0.00050	1	02/06/24 11:43	02/07/24 14:45	7440-43-9	
Cobalt, Total Recoverable	**0.017**	mg/L	0.0010	1	02/06/24 11:43	02/07/24 14:45	7440-48-4	
Molybdenum, Total Recoverable	**0.0037**	mg/L	0.0010	1	02/06/24 11:43	02/07/24 14:45	7439-98-7	
Selenium, Total Recoverable	**<0.0010**	mg/L	0.0010	1	02/06/24 11:43	02/07/24 14:45	7782-49-2	
Thallium, Total Recoverable	**<0.0010**	mg/L	0.0010	1	02/06/24 11:43	02/07/24 14:45	7440-28-0	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Kansas City							
Mercury	**<0.20**	ug/L	0.20	1	02/08/24 10:32	02/08/24 15:30	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City							
Total Dissolved Solids	**<40.0**	mg/L	40.0	1		02/07/24 11:11		AB,PP
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Kansas City							
pH at 25 Degrees C	**6.9**	Std. Units	0.10	1		02/06/24 13:22		H6
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City							
Chloride	**352**	mg/L	50.0	50		02/08/24 22:03	16887-00-6	
Fluoride	**<0.20**	mg/L	0.20	1		02/08/24 21:14	16984-48-8	
Sulfate	**434**	mg/L	50.0	50		02/08/24 22:03	14808-79-8	

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ANALYTICAL RESULTS

Project: TEC BASA
Pace Project No.: 60446521

Sample: MW-12-020224 **Lab ID: 60446521002** Collected: 02/01/24 11:30 Received: 02/02/24 17:40 Matrix: Water

Parameters	Results	Units	Report Limit	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, Total Recoverable	**0.11**	mg/L	0.0050	1	02/06/24 11:43	02/19/24 13:59	7440-39-3	
Beryllium, Total Recoverable	**<0.0010**	mg/L	0.0010	1	02/06/24 11:43	02/19/24 13:59	7440-41-7	
Boron, Total Recoverable	**0.49**	mg/L	0.10	1	02/06/24 11:43	02/19/24 13:59	7440-42-8	
Calcium, Total Recoverable	**219**	mg/L	0.20	1	02/06/24 11:43	02/19/24 13:59	7440-70-2	
Chromium, Total Recoverable	**<0.0050**	mg/L	0.0050	1	02/06/24 11:43	02/19/24 13:59	7440-47-3	
Lead, Total Recoverable	**<0.010**	mg/L	0.010	1	02/06/24 11:43	02/19/24 13:59	7439-92-1	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Kansas City							
Lithium, Total Recoverable	**0.047**	mg/L	0.010	1	02/06/24 11:43	02/19/24 13:59	7439-93-2	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City							
Antimony, Total Recoverable	**<0.0010**	mg/L	0.0010	1	02/06/24 11:43	02/07/24 14:48	7440-36-0	
Arsenic, Total Recoverable	**0.011**	mg/L	0.0010	1	02/06/24 11:43	02/07/24 14:48	7440-38-2	
Cadmium, Total Recoverable	**<0.00050**	mg/L	0.00050	1	02/06/24 11:43	02/07/24 14:48	7440-43-9	
Cobalt, Total Recoverable	**0.044**	mg/L	0.0010	1	02/06/24 11:43	02/07/24 14:48	7440-48-4	
Molybdenum, Total Recoverable	**0.0062**	mg/L	0.0010	1	02/06/24 11:43	02/07/24 14:48	7439-98-7	
Selenium, Total Recoverable	**<0.0010**	mg/L	0.0010	1	02/06/24 11:43	02/07/24 14:48	7782-49-2	
Thallium, Total Recoverable	**<0.0010**	mg/L	0.0010	1	02/06/24 11:43	02/07/24 14:48	7440-28-0	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Kansas City							
Mercury	**<0.20**	ug/L	0.20	1	02/08/24 10:32	02/08/24 15:32	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City							
Total Dissolved Solids	**2610**	mg/L	40.0	1		02/08/24 14:24		L1
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Kansas City							
pH at 25 Degrees C	**6.8**	Std. Units	0.10	1		02/06/24 13:27		H6
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City							
Chloride	**319**	mg/L	50.0	50		02/08/24 22:40	16887-00-6	
Fluoride	**<0.20**	mg/L	0.20	1		02/08/24 22:15	16984-48-8	
Sulfate	**393**	mg/L	50.0	50		02/08/24 22:40	14808-79-8	

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ANALYTICAL RESULTS

Project: TEC BASA
Pace Project No.: 60446521

Sample: MW-13-020124 **Lab ID: 60446521003** Collected: 02/01/24 13:25 Received: 02/02/24 17:40 Matrix: Water

Parameters	Results	Units	Report Limit	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, Total Recoverable	**0.10**	mg/L	0.0050	1	02/06/24 11:43	02/19/24 14:01	7440-39-3	
Beryllium, Total Recoverable	**<0.0010**	mg/L	0.0010	1	02/06/24 11:43	02/19/24 14:01	7440-41-7	
Boron, Total Recoverable	**1.1**	mg/L	0.10	1	02/06/24 11:43	02/19/24 14:01	7440-42-8	
Calcium, Total Recoverable	**262**	mg/L	0.20	1	02/06/24 11:43	02/19/24 14:01	7440-70-2	
Chromium, Total Recoverable	**0.014**	mg/L	0.0050	1	02/06/24 11:43	02/19/24 14:01	7440-47-3	
Lead, Total Recoverable	**<0.010**	mg/L	0.010	1	02/06/24 11:43	02/19/24 14:01	7439-92-1	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Kansas City							
Lithium, Total Recoverable	**0.031**	mg/L	0.010	1	02/06/24 11:43	02/19/24 14:01	7439-93-2	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City							
Antimony, Total Recoverable	**<0.0010**	mg/L	0.0010	1	02/06/24 11:43	02/07/24 14:51	7440-36-0	
Arsenic, Total Recoverable	**0.0098**	mg/L	0.0010	1	02/06/24 11:43	02/07/24 14:51	7440-38-2	
Cadmium, Total Recoverable	**<0.00050**	mg/L	0.00050	1	02/06/24 11:43	02/07/24 14:51	7440-43-9	
Cobalt, Total Recoverable	**0.0065**	mg/L	0.0010	1	02/06/24 11:43	02/07/24 14:51	7440-48-4	
Molybdenum, Total Recoverable	**0.038**	mg/L	0.0010	1	02/06/24 11:43	02/07/24 14:51	7439-98-7	
Selenium, Total Recoverable	**0.0039**	mg/L	0.0010	1	02/06/24 11:43	02/07/24 14:51	7782-49-2	
Thallium, Total Recoverable	**<0.0010**	mg/L	0.0010	1	02/06/24 11:43	02/07/24 14:51	7440-28-0	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Kansas City							
Mercury	**<0.20**	ug/L	0.20	1	02/08/24 10:32	02/08/24 15:35	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City							
Total Dissolved Solids	**1950**	mg/L	20.0	1		02/08/24 14:24		D6,L1
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Kansas City							
pH at 25 Degrees C	**7.6**	Std. Units	0.10	1		02/06/24 13:33		H6
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City							
Chloride	**224**	mg/L	50.0	50		02/08/24 23:17	16887-00-6	
Fluoride	**<0.20**	mg/L	0.20	1		02/08/24 22:52	16984-48-8	
Sulfate	**658**	mg/L	50.0	50		02/08/24 23:17	14808-79-8	

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ANALYTICAL RESULTS

Project: TEC BASA
Pace Project No.: 60446521

Sample: MW-14-020124 **Lab ID: 60446521004** Collected: 02/01/24 09:35 Received: 02/02/24 17:40 Matrix: Water

Parameters	Results	Units	Report Limit	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, Total Recoverable	**0.044**	mg/L	0.0050	1	02/06/24 11:43	02/19/24 14:04	7440-39-3	
Beryllium, Total Recoverable	**<0.0010**	mg/L	0.0010	1	02/06/24 11:43	02/19/24 14:04	7440-41-7	
Boron, Total Recoverable	**0.94**	mg/L	0.10	1	02/06/24 11:43	02/19/24 14:04	7440-42-8	
Calcium, Total Recoverable	**200**	mg/L	0.20	1	02/06/24 11:43	02/19/24 14:04	7440-70-2	
Chromium, Total Recoverable	**<0.0050**	mg/L	0.0050	1	02/06/24 11:43	02/19/24 14:04	7440-47-3	
Lead, Total Recoverable	**<0.010**	mg/L	0.010	1	02/06/24 11:43	02/19/24 14:04	7439-92-1	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Kansas City							
Lithium, Total Recoverable	**0.033**	mg/L	0.010	1	02/06/24 11:43	02/19/24 14:04	7439-93-2	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City							
Antimony, Total Recoverable	**<0.0010**	mg/L	0.0010	1	02/06/24 11:43	02/07/24 14:54	7440-36-0	
Arsenic, Total Recoverable	**0.0018**	mg/L	0.0010	1	02/06/24 11:43	02/07/24 14:54	7440-38-2	
Cadmium, Total Recoverable	**<0.00050**	mg/L	0.00050	1	02/06/24 11:43	02/07/24 14:54	7440-43-9	
Cobalt, Total Recoverable	**0.0013**	mg/L	0.0010	1	02/06/24 11:43	02/07/24 14:54	7440-48-4	
Molybdenum, Total Recoverable	**0.024**	mg/L	0.0010	1	02/06/24 11:43	02/07/24 14:54	7439-98-7	
Selenium, Total Recoverable	**<0.0010**	mg/L	0.0010	1	02/06/24 11:43	02/07/24 14:54	7782-49-2	
Thallium, Total Recoverable	**<0.0010**	mg/L	0.0010	1	02/06/24 11:43	02/07/24 14:54	7440-28-0	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Kansas City							
Mercury	**<0.20**	ug/L	0.20	1	02/08/24 10:32	02/08/24 15:37	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City							
Total Dissolved Solids	**3230**	mg/L	20.0	1		02/08/24 14:26		L1
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Kansas City							
pH at 25 Degrees C	**7.4**	Std. Units	0.10	1		02/06/24 13:26		H6
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City							
Chloride	**218**	mg/L	50.0	50		02/09/24 00:19	16887-00-6	
Fluoride	**<0.20**	mg/L	0.20	1		02/08/24 23:29	16984-48-8	
Sulfate	**477**	mg/L	50.0	50		02/09/24 00:19	14808-79-8	

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ANALYTICAL RESULTS

Project: TEC BASA
Pace Project No.: 60446521

Sample: TEC-BASA-DUP-1-013124 **Lab ID: 60446521005** Collected: 01/31/24 14:00 Received: 02/02/24 17:40 Matrix: Water

Parameters	Results	Units	Report Limit	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, Total Recoverable	**0.068**	mg/L	0.0050	1	02/06/24 11:43	02/19/24 14:06	7440-39-3	
Beryllium, Total Recoverable	**<0.0010**	mg/L	0.0010	1	02/06/24 11:43	02/19/24 14:06	7440-41-7	
Boron, Total Recoverable	**0.46**	mg/L	0.10	1	02/06/24 11:43	02/19/24 14:06	7440-42-8	
Calcium, Total Recoverable	**226**	mg/L	0.20	1	02/06/24 11:43	02/19/24 14:06	7440-70-2	
Chromium, Total Recoverable	**<0.0050**	mg/L	0.0050	1	02/06/24 11:43	02/19/24 14:06	7440-47-3	
Lead, Total Recoverable	**<0.010**	mg/L	0.010	1	02/06/24 11:43	02/19/24 14:06	7439-92-1	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Kansas City							
Lithium, Total Recoverable	**0.038**	mg/L	0.010	1	02/06/24 11:43	02/19/24 14:06	7439-93-2	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City							
Antimony, Total Recoverable	**<0.0010**	mg/L	0.0010	1	02/06/24 11:43	02/07/24 14:57	7440-36-0	
Arsenic, Total Recoverable	**0.0030**	mg/L	0.0010	1	02/06/24 11:43	02/07/24 14:57	7440-38-2	
Cadmium, Total Recoverable	**<0.00050**	mg/L	0.00050	1	02/06/24 11:43	02/07/24 14:57	7440-43-9	
Cobalt, Total Recoverable	**0.017**	mg/L	0.0010	1	02/06/24 11:43	02/07/24 14:57	7440-48-4	
Molybdenum, Total Recoverable	**0.0035**	mg/L	0.0010	1	02/06/24 11:43	02/07/24 14:57	7439-98-7	
Selenium, Total Recoverable	**<0.0010**	mg/L	0.0010	1	02/06/24 11:43	02/07/24 14:57	7782-49-2	
Thallium, Total Recoverable	**<0.0010**	mg/L	0.0010	1	02/06/24 11:43	02/07/24 14:57	7440-28-0	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Kansas City							
Mercury	**<0.20**	ug/L	0.20	1	02/08/24 10:32	02/08/24 15:39	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City							
Total Dissolved Solids	**1290**	mg/L	40.0	1		02/07/24 11:11		AB
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Kansas City							
pH at 25 Degrees C	**6.9**	Std. Units	0.10	1		02/06/24 13:24		H6
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City							
Chloride	**367**	mg/L	50.0	50		02/09/24 00:56	16887-00-6	
Fluoride	**<0.20**	mg/L	0.20	1		02/09/24 00:31	16984-48-8	
Sulfate	**429**	mg/L	50.0	50		02/09/24 00:56	14808-79-8	

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QUALITY CONTROL DATA

Project: TEC BASA
Pace Project No.: 60446521

QC Batch: 882677 Analysis Method: EPA 245.1
QC Batch Method: EPA 245.1 Analysis Description: 245.1 Mercury
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60446521001, 60446521002, 60446521003, 60446521004, 60446521005

METHOD BLANK: 3494091 Matrix: Water
Associated Lab Samples: 60446521001, 60446521002, 60446521003, 60446521004, 60446521005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	<0.20	0.20	02/08/24 14:48	

LABORATORY CONTROL SAMPLE: 3494092

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.6	91	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3494093 3494094

Parameter	Units	60446515001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	<0.20	5	5	2.1	1.9	41	38	70-130	8	20	M1

MATRIX SPIKE SAMPLE: 3494123

Parameter	Units	60446515010 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	<0.20	5	1.3	26	70-130	M1

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QUALITY CONTROL DATA

Project: TEC BASA
Pace Project No.: 60446521

QC Batch: 882426
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: 60446521001, 60446521002, 60446521003, 60446521004, 60446521005

METHOD BLANK: 3493138 Matrix: Water
Associated Lab Samples: 60446521001, 60446521002, 60446521003, 60446521004, 60446521005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Barium	mg/L	<0.0050	0.0050	02/19/24 12:53	
Beryllium	mg/L	<0.0010	0.0010	02/19/24 12:53	
Boron	mg/L	<0.10	0.10	02/19/24 12:53	
Calcium	mg/L	<0.20	0.20	02/19/24 12:53	
Chromium	mg/L	<0.0050	0.0050	02/19/24 12:53	
Lead	mg/L	<0.010	0.010	02/19/24 12:53	

LABORATORY CONTROL SAMPLE: 3493139

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	mg/L	1	1.0	100	85-115	
Beryllium	mg/L	1	1.0	100	85-115	
Boron	mg/L	1	0.92	92	85-115	
Calcium	mg/L	10	10.1	101	85-115	
Chromium	mg/L	1	1.0	102	85-115	
Lead	mg/L	1	1.0	102	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3493140 3493141

Parameter	Units	60446515002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	mg/L	0.099	1	1	1.1	1.1	103	101	70-130	2	20	
Beryllium	mg/L	<0.0010	1	1	1.0	1.0	105	104	70-130	1	20	
Boron	mg/L	0.14	1	1	1.1	1.1	97	96	70-130	1	20	
Calcium	mg/L	231	10	10	234	237	24	54	70-130	1	20	M1
Chromium	mg/L	<0.0050	1	1	1.0	1.0	103	102	70-130	1	20	
Lead	mg/L	<0.010	1	1	1.0	0.98	99	98	70-130	1	20	

MATRIX SPIKE SAMPLE: 3493142

Parameter	Units	60446515010 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Barium	mg/L	0.11	1	1.1	102	70-130	
Beryllium	mg/L	<0.0010	1	1.1	107	70-130	
Boron	mg/L	2.3	1	3.3	100	70-130	
Calcium	mg/L	145	10	159	140	70-130	M1
Chromium	mg/L	<0.0050	1	1.0	100	70-130	

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QUALITY CONTROL DATA

Project: TEC BASA
Pace Project No.: 60446521

MATRIX SPIKE SAMPLE: 3493142

Parameter	Units	60446515010 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	mg/L	<0.010	1	0.94	94	70-130	

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QUALITY CONTROL DATA

Project: TEC BASA
Pace Project No.: 60446521

QC Batch: 882425
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: 60446521001, 60446521002, 60446521003, 60446521004, 60446521005

METHOD BLANK: 3493133 Matrix: Water
Associated Lab Samples: 60446521001, 60446521002, 60446521003, 60446521004, 60446521005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	mg/L	<0.0010	0.0010	02/07/24 12:54	
Arsenic	mg/L	<0.0010	0.0010	02/07/24 12:54	
Cadmium	mg/L	<0.00050	0.00050	02/07/24 12:54	
Cobalt	mg/L	<0.0010	0.0010	02/07/24 12:54	
Molybdenum	mg/L	<0.0010	0.0010	02/07/24 12:54	
Selenium	mg/L	<0.0010	0.0010	02/07/24 12:54	
Thallium	mg/L	<0.0010	0.0010	02/07/24 12:54	

LABORATORY CONTROL SAMPLE: 3493134

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.04	0.040	99	85-115	
Arsenic	mg/L	0.04	0.040	100	85-115	
Cadmium	mg/L	0.04	0.041	103	85-115	
Cobalt	mg/L	0.04	0.040	101	85-115	
Molybdenum	mg/L	0.04	0.041	102	85-115	
Selenium	mg/L	0.04	0.040	101	85-115	
Thallium	mg/L	0.04	0.038	96	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3493135 3493136

Parameter	Units	60446515001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	<0.0050	0.04	0.04	0.041	0.041	94	96	70-130	2	20	
Arsenic	mg/L	<0.0050	0.04	0.04	0.040	0.041	96	98	70-130	2	20	
Cadmium	mg/L	<0.0025	0.04	0.04	0.033	0.034	83	84	70-130	1	20	
Cobalt	mg/L	<0.0050	0.04	0.04	0.043	0.044	96	98	70-130	3	20	
Molybdenum	mg/L	<0.0050	0.04	0.04	0.046	0.047	103	106	70-130	2	20	
Selenium	mg/L	<0.0050	0.04	0.04	0.037	0.040	91	98	70-130	8	20	
Thallium	mg/L	<0.0050	0.04	0.04	0.034	0.034	83	86	70-130	3	20	

MATRIX SPIKE SAMPLE: 3493137

Parameter	Units	60446520001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	<0.0010	0.04	0.038	94	70-130	
Arsenic	mg/L	0.0033	0.04	0.045	103	70-130	

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QUALITY CONTROL DATA

Project: TEC BASA
Pace Project No.: 60446521

MATRIX SPIKE SAMPLE: 3493137

Parameter	Units	60446520001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Cadmium	mg/L	<0.00050	0.04	0.035	88	70-130	
Cobalt	mg/L	0.017	0.04	0.054	92	70-130	
Molybdenum	mg/L	0.0034	0.04	0.045	104	70-130	
Selenium	mg/L	<0.0010	0.04	0.042	104	70-130	
Thallium	mg/L	<0.0010	0.04	0.035	86	70-130	

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QUALITY CONTROL DATA

Project: TEC BASA
Pace Project No.: 60446521

QC Batch: 882429
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60446521001, 60446521002, 60446521003, 60446521004, 60446521005

METHOD BLANK: 3493147 Matrix: Water
Associated Lab Samples: 60446521001, 60446521002, 60446521003, 60446521004, 60446521005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lithium	mg/L	<0.010	0.010	02/19/24 12:53	

LABORATORY CONTROL SAMPLE: 3493148

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lithium	mg/L	1	1.0	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3493149 3493150

Parameter	Units	60446515003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lithium	mg/L	0.020	1	1	1.0	1.1	102	104	75-125	2	20	

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QUALITY CONTROL DATA

Project: TEC BASA
Pace Project No.: 60446521

QC Batch: 882538
QC Batch Method: SM 2540C
Analysis Method: SM 2540C
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60446521001, 60446521005

METHOD BLANK: 3493548 Matrix: Water
Associated Lab Samples: 60446521001, 60446521005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	19.5	5.0	02/07/24 11:10	AB

LABORATORY CONTROL SAMPLE: 3493549

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	1000	1160	116	80-120	AB

SAMPLE DUPLICATE: 3493550

Parameter	Units	60446484009 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	901	872	3	10	AB

SAMPLE DUPLICATE: 3493551

Parameter	Units	60446526002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1010	981	2	10	AB

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QUALITY CONTROL DATA

Project: TEC BASA
Pace Project No.: 60446521

QC Batch: 882661
QC Batch Method: SM 2540C
Analysis Method: SM 2540C
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60446521002, 60446521003, 60446521004

METHOD BLANK: 3494039 Matrix: Water
Associated Lab Samples: 60446521002, 60446521003, 60446521004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<5.0	5.0	02/14/24 12:06	

LABORATORY CONTROL SAMPLE: 3494040

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	1000	1580	158	80-120	L1

SAMPLE DUPLICATE: 3494041

Parameter	Units	60446457003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1220	1090	12	10	D6

SAMPLE DUPLICATE: 3494042

Parameter	Units	60446521003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1950	1720	13	10	D6

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QUALITY CONTROL DATA

Project: TEC BASA
Pace Project No.: 60446521

QC Batch: 882384
QC Batch Method: SM 4500-H+B
Analysis Method: SM 4500-H+B
Analysis Description: 4500H+B pH
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60446521001, 60446521002, 60446521003, 60446521004, 60446521005

SAMPLE DUPLICATE: 3493035

Parameter	Units	60445866002 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.4	7.5	1	5	H6

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QUALITY CONTROL DATA

Project: TEC BASA
Pace Project No.: 60446521

QC Batch: 882572
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: 60446521001, 60446521002, 60446521003, 60446521004, 60446521005

METHOD BLANK: 3493672 Matrix: Water
Associated Lab Samples: 60446521001, 60446521002, 60446521003, 60446521004, 60446521005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<1.0	1.0	02/08/24 09:19	
Fluoride	mg/L	<0.20	0.20	02/08/24 09:19	
Sulfate	mg/L	<1.0	1.0	02/08/24 09:19	

LABORATORY CONTROL SAMPLE: 3493673

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	2.6	105	90-110	
Sulfate	mg/L	5	5.1	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3493674 3493675

Parameter	Units	60446484015 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	25	25	43.1	44.4	88	93	80-120	3	15	
Fluoride	mg/L	2.0	2.5	2.5	4.6	4.7	105	109	80-120	2	15	
Sulfate	mg/L	22.8	25	25	47.7	50.9	100	112	80-120	6	15	

MATRIX SPIKE SAMPLE: 3493676

Parameter	Units	60446515005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	113	50	157	89	80-120	
Fluoride	mg/L	<0.20	2.5	2.7	106	80-120	
Sulfate	mg/L	14.6	250	552	215	80-120	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

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

QUALIFIERS

Project: TEC BASA
Pace Project No.: 60446521

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

AB	Analyte was detected in an associated instrument blank.
D6	The precision between the sample and sample duplicate exceeded laboratory control limits.
H6	Analysis initiated outside of the 15 minute EPA required holding time.
L1	Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
PP	The mass of dried residue obtained did not meet the test method requirements based on volume used.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: TEC BASA
Pace Project No.: 60446521

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60446521001	**MW-11A-013124**	EPA 200.7	882426	EPA 200.7	882497
60446521002	**MW-12-020224**	EPA 200.7	882426	EPA 200.7	882497
60446521003	**MW-13-020124**	EPA 200.7	882426	EPA 200.7	882497
60446521004	**MW-14-020124**	EPA 200.7	882426	EPA 200.7	882497
60446521005	**TEC-BASA-DUP-1-013124**	EPA 200.7	882426	EPA 200.7	882497
60446521001	**MW-11A-013124**	EPA 3010	882429	EPA 6010	882495
60446521002	**MW-12-020224**	EPA 3010	882429	EPA 6010	882495
60446521003	**MW-13-020124**	EPA 3010	882429	EPA 6010	882495
60446521004	**MW-14-020124**	EPA 3010	882429	EPA 6010	882495
60446521005	**TEC-BASA-DUP-1-013124**	EPA 3010	882429	EPA 6010	882495
60446521001	**MW-11A-013124**	EPA 200.8	882425	EPA 200.8	882498
60446521002	**MW-12-020224**	EPA 200.8	882425	EPA 200.8	882498
60446521003	**MW-13-020124**	EPA 200.8	882425	EPA 200.8	882498
60446521004	**MW-14-020124**	EPA 200.8	882425	EPA 200.8	882498
60446521005	**TEC-BASA-DUP-1-013124**	EPA 200.8	882425	EPA 200.8	882498
60446521001	**MW-11A-013124**	EPA 245.1	882677	EPA 245.1	882712
60446521002	**MW-12-020224**	EPA 245.1	882677	EPA 245.1	882712
60446521003	**MW-13-020124**	EPA 245.1	882677	EPA 245.1	882712
60446521004	**MW-14-020124**	EPA 245.1	882677	EPA 245.1	882712
60446521005	**TEC-BASA-DUP-1-013124**	EPA 245.1	882677	EPA 245.1	882712
60446521001	**MW-11A-013124**	SM 2540C	882538		
60446521002	**MW-12-020224**	SM 2540C	882661		
60446521003	**MW-13-020124**	SM 2540C	882661		
60446521004	**MW-14-020124**	SM 2540C	882661		
60446521005	**TEC-BASA-DUP-1-013124**	SM 2540C	882538		
60446521001	**MW-11A-013124**	SM 4500-H+B	882384		
60446521002	**MW-12-020224**	SM 4500-H+B	882384		
60446521003	**MW-13-020124**	SM 4500-H+B	882384		
60446521004	**MW-14-020124**	SM 4500-H+B	882384		
60446521005	**TEC-BASA-DUP-1-013124**	SM 4500-H+B	882384		
60446521001	**MW-11A-013124**	EPA 300.0	882572		
60446521002	**MW-12-020224**	EPA 300.0	882572		
60446521003	**MW-13-020124**	EPA 300.0	882572		
60446521004	**MW-14-020124**	EPA 300.0	882572		
60446521005	**TEC-BASA-DUP-1-013124**	EPA 300.0	882572		

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WO# : 60446521

60446521

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

Client Name: Evergy KS Central

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: T298 **Type of Ice:** (Wet) Blue None

Cooler Temperature (°C): **As-read** 1.5 **Corr. Factor** -0.3 **Corrected** 1.2

Date and initials of person examining contents: 2/5/24

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#:** 67187	☑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

Scan QR Code for instructions 60446521

Company Name:	Evergy Kansas Central, Inc.	Contact/Report To:	Jake Humphrey
Street Address:	818 S Kansas Avenue, Topeka, KS 66612	Phone #:	(913)634-0605
		E-Mail:	jake.humphrey@evergy.com
		Cc E-Mail:	skaney@haleyaldrich.com
Customer Project #:			
Project Name:	TEC BASA	Invoice To:	Jeffery Center
		Invoice E-Mail:	evergyap@onlinecapturecenter.com
Site Collection Info/Facility ID (as applicable):	Evergy Tecumseh Energy Center	Purchase Order # (if applicable):	WSTR-2000017259
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [X] CT [ ] ET

County / State origin of sample(s): Kansas

Data Deliverables: [ ] Level II [ ] Level III [ ] Level IV [ ] EQUIS [ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [ ] Yes [X] 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 [X] 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 **: 3 2 3 3 3 3

Identify Container Preservative Type***: 2 1 1 2 2 2

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	245.1 Mercury	2540C Total Dissolved Solids	300.0 Cl,F,SO4; 4500H+ pH	200.7 B,Ca,Ba,Be,Cr,Pb	200.8 Sb,As,Cd,Co,Mo,Se,Tl	6010 Lithium	Sample Comment
MW-11A-013124	WT	Grab	-	-	1/31/2024	1400	3	-	-	X	X	X	X	X	X	
MW-12-020224	WT	Grab	-	-	2/1/2024	1130	3	-	-	X	X	X	X	X	X	
MW-13-020124	WT	Grab	-	-	2/1/2024	1325	3	-	-	X	X	X	X	X	X	
MW-14-020124	WT	Grab	-	-	2/1/2024	935	3	-	-	X	X	X	X	X	X	
TEC-BASA-DUP-1-013124	WT	Grab	-	-	1/31/2024	1400	3	-	-	X	X	X	X	X	X	

**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: Alice Spiller

AcctNum / Client ID:

Table #:

Profile / Template: 9657

Prelog / Bottle Ord. ID: EZ 3061717

Preservation non-conformance identified for sample.

Additional Instructions from Pace®:

Collected By: (Printed Name) Matt VanderPutten

Signature:

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)	On Ice:
1	T298	-0.3	1.5	1.2	

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
~~HSES~~ Engineers	02/02/2024 / 1700		2/2/24 1740	
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 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/

Client: Evergy KS Central

Profile #

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	BP3C	BP3Z	WPDU	ZPLC	Other		
1	WT																			1	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	
BP1C	1L NAOH plastic
BP1N	1L HNO3 plastic
BP1S	1L H2SO4 plastic
BP1U	1L unpreserved plastic
BP1Z	1L NaOH, Zn Acetate
BP2C	500mL NAOH plastic
BP2N	500mL HNO3 plastic
BP2S	500mL H2SO4 plastic
BP2U	500mL unpreserved plastic
BP2Z	500mL NaOH, Zn Acetate
BP3C	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: 60446521

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

February 21, 2024

Jake Humphrey
Evergy, Inc.
818 S Kansas Avenue
Topeka, KS 66612

RE: Project: TEC BASA RAD
Pace Project No.: 60446524

Dear Jake Humphrey:

Enclosed are the analytical results for sample(s) received by the laboratory on February 02, 2024. 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 - Greensburg

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

Sincerely,

Alice Spiller

Alice Spiller
alice.spiller@pacelabs.com
(913)599-5665
PM Lab Management

Enclosures

cc: Shelly Gomez, Evergy
Laura Hines, Evergy, Inc.
Shannon Hughes, Evergy
Adam Irvin, Evergy
Samantha Kaney, Haley & Aldrich
Melanie Satanek, Haley Aldrich
Adriana Sosa, Haley & Aldrich, Inc.
Andrew Watson, Haley & Aldrich

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CERTIFICATIONS

Project: TEC BASA RAD
Pace Project No.: 60446524

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

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SAMPLE SUMMARY

Project: TEC BASA RAD
Pace Project No.: 60446524

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60446524001	**MW-11A-013124**	Water	01/31/24 14:00	02/02/24 17:40
60446524002	**MW-12-020224**	Water	02/01/24 13:30	02/02/24 17:40
60446524003	**MW-13-020124**	Water	02/01/24 13:25	02/02/24 17:40
60446524004	**MW-14-020124**	Water	02/01/24 09:35	02/02/24 17:40
60446524005	**TEC-BASA-DUP-1-013124**	Water	01/31/24 14:00	02/02/24 17:40

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SAMPLE ANALYTE COUNT

Project: TEC BASA RAD
Pace Project No.: 60446524

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60446524001	**MW-11A-013124**	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
60446524002	**MW-12-020224**	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
60446524003	**MW-13-020124**	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
60446524004	**MW-14-020124**	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
60446524005	**TEC-BASA-DUP-1-013124**	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

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PROJECT NARRATIVE

Project: TEC BASA RAD
Pace Project No.: 60446524

Method: **EPA 903.1**
Description: 903.1 Radium 226
Client: Evergy Kansas Central, Inc.
Date: February 21, 2024

General Information:
5 samples were analyzed for EPA 903.1 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

PROJECT NARRATIVE

Project: TEC BASA RAD
Pace Project No.: 60446524

Method: **EPA 904.0**
Description: 904.0 Radium 228
Client: Evergy Kansas Central, Inc.
Date: February 21, 2024

General Information:
5 samples were analyzed for EPA 904.0 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA RAD
Pace Project No.: 60446524

Method: **Total Radium Calculation**
Description: Total Radium 228+226
Client: Evergy Kansas Central, Inc.
Date: February 21, 2024

General Information:
5 samples were analyzed for Total Radium Calculation by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: TEC BASA RAD
Pace Project No.: 60446524

Sample: MW-11A-013124 **Lab ID: 60446524001** Collected: 01/31/24 14:00 Received: 02/02/24 17:40 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	**0.986 ± 0.601 (0.708) C:NA T:87%**	pCi/L	02/15/24 14:21	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**2.16 ± 0.592 (0.617) C:91% T:77%**	pCi/L	02/20/24 14:25	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**3.15 ± 1.19 (1.33)**	pCi/L	02/21/24 11:02	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: TEC BASA RAD
Pace Project No.: 60446524

Sample: MW-12-020224 **Lab ID: 60446524002** Collected: 02/01/24 13:30 Received: 02/02/24 17:40 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	**1.00 ± 0.777 (1.13) C:NA T:85%**	pCi/L	02/15/24 14:21	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**1.27 ± 0.451 (0.633) C:87% T:79%**	pCi/L	02/20/24 14:25	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**2.27 ± 1.23 (1.76)**	pCi/L	02/21/24 11:02	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: TEC BASA RAD
Pace Project No.: 60446524

Sample: MW-13-020124 **Lab ID: 60446524003** Collected: 02/01/24 13:25 Received: 02/02/24 17:40 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	**0.598 ± 0.659 (1.05) C:NA T:86%**	pCi/L	02/15/24 14:21	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**1.56 ± 0.515 (0.659) C:91% T:78%**	pCi/L	02/20/24 14:54	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**2.16 ± 1.17 (1.71)**	pCi/L	02/21/24 11:02	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: TEC BASA RAD
Pace Project No.: 60446524

Sample: MW-14-020124 **Lab ID: 60446524004** Collected: 02/01/24 09:35 Received: 02/02/24 17:40 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 ± 0.841 (1.19) C:NA T:81%**	pCi/L	02/15/24 14:21	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**1.41 ± 0.474 (0.636) C:89% T:78%**	pCi/L	02/20/24 14:25	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**2.63 ± 1.32 (1.83)**	pCi/L	02/21/24 11:02	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: TEC BASA RAD
Pace Project No.: 60446524

Sample: TEC-BASA-DUP-1-013124 **Lab ID: 60446524005** Collected: 01/31/24 14:00 Received: 02/02/24 17:40 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	**0.634 ± 0.820 (1.37) C:NA T:87%**	pCi/L	02/15/24 14:21	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**1.93 ± 0.582 (0.708) C:88% T:77%**	pCi/L	02/20/24 14:25	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**2.56 ± 1.40 (2.08)**	pCi/L	02/21/24 11:02	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: TEC BASA RAD
Pace Project No.: 60446524

QC Batch: 647308
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: 60446524001, 60446524002, 60446524003, 60446524004, 60446524005

METHOD BLANK: 3154092 Matrix: Water
Associated Lab Samples: 60446524001, 60446524002, 60446524003, 60446524004, 60446524005

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.221 ± 0.253 (0.149) C:NA T:79%	pCi/L	02/15/24 14:06	

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.

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QUALITY CONTROL - RADIOCHEMISTRY

Project: TEC BASA RAD
Pace Project No.: 60446524

QC Batch: 647309
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: 60446524001, 60446524002, 60446524003, 60446524004, 60446524005

METHOD BLANK: 3154093 Matrix: Water
Associated Lab Samples: 60446524001, 60446524002, 60446524003, 60446524004, 60446524005

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.0319 ± 0.270 (0.625) C:93% T:73%	pCi/L	02/20/24 14:27	

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.

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QUALIFIERS

Project: TEC BASA RAD
Pace Project No.: 60446524

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.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: TEC BASA RAD
Pace Project No.: 60446524

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60446524001	**MW-11A-013124**	EPA 903.1	647308		
60446524002	**MW-12-020224**	EPA 903.1	647308		
60446524003	**MW-13-020124**	EPA 903.1	647308		
60446524004	**MW-14-020124**	EPA 903.1	647308		
60446524005	**TEC-BASA-DUP-1-013124**	EPA 903.1	647308		
60446524001	**MW-11A-013124**	EPA 904.0	647309		
60446524002	**MW-12-020224**	EPA 904.0	647309		
60446524003	**MW-13-020124**	EPA 904.0	647309		
60446524004	**MW-14-020124**	EPA 904.0	647309		
60446524005	**TEC-BASA-DUP-1-013124**	EPA 904.0	647309		
60446524001	**MW-11A-013124**	Total Radium Calculation	650174		
60446524002	**MW-12-020224**	Total Radium Calculation	650174		
60446524003	**MW-13-020124**	Total Radium Calculation	650174		
60446524004	**MW-14-020124**	Total Radium Calculation	650174		
60446524005	**TEC-BASA-DUP-1-013124**	Total Radium Calculation	650174		

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WO# : 60446524

60446524

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

Client Name: Evergy KS Central

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: T298 **Type of Ice:** Wet Blue (None)

Cooler Temperature (°C): **As-read** 15.3 **Corr. Factor** -0.3 **Corrected** 15.0

Date and initials of person examining contents: PV 2/5/24

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#:** 67187	☑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

Scan QR Code for instructions 60446524

Company Name:	Evergy Kansas Central, Inc.	Contact/Report To:	Jake Humphrey
Street Address:	818 S Kansas Avenue, Topeka, KS 66612	Phone #:	(913)634-0605
		E-Mail:	jake.humphrey@evergy.com
		Cc E-Mail:	skaney@haleyaldrich.com
Customer Project #:			
Project Name:	TEC BASA RAD	Invoice To:	Jeffery Center
		Invoice E-Mail:	evergyap@onlinecapturecenter.com
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	WSTR-2000017259
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [X] CT [ ] ET

County / State origin of sample(s): Kansas

Data Deliverables:
[ ] Level II [ ] Level III [ ] Level IV
[ ] EQUIS
[ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [ ] Yes [X] 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 [X] 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 1
Identify Container Preservative Type***: 2 2 2

**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: Alice Spiller
AcctNum / Client ID:
Table #:
Profile / Template: 9657
Prelog / Bottle Ord. ID: EZ 3061730

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	Radium 226	Radium 226/228 Combined + QC Sheets	Radium 228	Sample Comment	Preservation non-conformance identified for sample.
MW-11A-013124	WT	Grab	-	-	1/31/2024	1400	2	-	-	X	X	X	2BPIN	
MW-12-020224	WT	Grab	-	-	2/1/2024	1130	2	-	-	X	X	X		
MW-13-020124	WT	Grab	-	-	2/1/2024	1325	2	-	-	X	X	X		
MW-14-020124	WT	Grab	-	-	2/1/2024	935	2	-	-	X	X	X		
TEC-BASA-DUP-1-013124	WT	Grab	-	-	1/31/2024	1400	2	-	-	X	X	X		

Additional Instructions from Pace®:

Collected By: (Printed Name) Matt VanderPutten
Signature:

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)	On Ice:
1	T298	-0.3	15.3	15.0	

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
SCS Engineers	02/02/2024 / 1700		2/2/24 1740	
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 1

Page 18 of 20

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/

Internal Transfer Chain of Custody

☐ Rush Multiplier_____X
☒ Samples Pre-Logged into eCOC

State Of Origin: KS
Cert. Needed: ☒ Yes ☐ No

Workorder: 60446524 **Workorder Name:** TEC BASA RAD

Owner Received Date: 2/2/2024 **Results Requested By:** 3/4/2024

Report To	Subcontract To
Alice Spiller Pace Analytical Kansas 9608 Loiret Blvd. Lenexa, KS 66219 Phone (913)599-5665	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 226/228 combined +QC	Radium 226	Radium 228	LAB USE ONLY
1	MW-11A-013124	PS	1/31/2024 14:00	60446524001	Water	2	X	X	X	001
2	MW-12-020224	PS	2/1/2024 13:30	60446524002	Water	2	X	X	X	002
3	MW-13-020124	PS	2/1/2024 13:25	60446524003	Water	2	X	X	X	003
4	MW-14-020124	PS	2/1/2024 09:35	60446524004	Water	2	X	X	X	004
5	TEC-BASA-DUP-1-013124	PS	1/31/2024 14:00	60446524005	Water	2	X	X	X	005

Transfers	Released By	Date/Time	Received By	Date/Time
1	JA Pace	2/6/24 1100	[signature]	2/7/24 950
2				
3				

Comments: KS sample 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# : 30659011

30659011

WO#: 30659011

PM: MAR Due Date: 02/28/24

CLIENT: PACE_60_LEKS

Client Name: Pace Kansas Pr

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other

Tracking Number: 7146 2374 4251

Initial / Date

Examined By: EJ 2/7/24

Labeled By: EJ 2/7/24

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# 10D0831 | 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 dechlorination			✓	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 EJ 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: 2/7/24 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.

Quality Control Sample Performance Assessment

Pace Analytical
www.pacelabs.com

Test:	Ra-226
Analyst:	CLM
Date:	2/8/2024
Batch ID:	77547
Matrix:	DW

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3154092
MB concentration:	0.221
M/B Counting Uncertainty:	0.216
MB MDC:	0.149
MB Numerical Performance Indicator:	2.00
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	#N/A

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS77547	**LCSD77547**
Count Date:	2/15/2024	2/15/2024
Spike I.D.:	23-013	23-013
Spike Concentration (pCi/mL):	32.276	32.276
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.652	0.652
Target Conc. (pCi/L, g, F):	4.952	4.952
Uncertainty (Calculated):	0.233	0.233
Result (pCi/L, g, F):	4.961	4.298
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	1.047	0.973
Numerical Performance Indicator:	0.02	-1.28
Percent Recovery:	100.19%	86.80%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	133%	133%
Lower % Recovery Limits:	73%	73%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS77547	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD77547	
Sample Result (pCi/L, g, F):	4.961	
Sample Result Counting Uncertainty (pCi/L, g, F):	1.047	
Sample Duplicate Result (pCi/L, g, F):	4.298	
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.973	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	0.910	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	14.31%	
Duplicate Status vs Numerical Indicator:	N/A	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	32%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the RL.

Comments:

#N/A

LL 02.15.24

CLM 2/16/24

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Test:	Ra-228
Analyst:	JJS1
Date:	2/13/2024
Worklist:	77548
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3154093
MB concentration:	0.032
M/B 2 Sigma CSU:	0.270
MB MDC:	0.625
MB Numerical Performance Indicator:	0.23
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS77548	LCSD77548
Count Date:	2/20/2024	2/20/2024
Spike I.D.:	23-043	23-043
Decay Corrected Spike Concentration (pCi/mL):	37.792	37.792
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.817	0.817
Target Conc. (pCi/L, g, F):	4.625	4.626
Uncertainty (Calculated):	0.227	0.227
Result (pCi/L, g, F):	3.908	4.399
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	1.012	1.029
Numerical Performance Indicator:	-1.36	-0.42
Percent Recovery:	84.50%	95.08%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS77548	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD77548	
Sample Result (pCi/L, g, F):	3.908	
Sample Result 2 Sigma CSU (pCi/L, g, F):	1.012	
Sample Duplicate Result (pCi/L, g, F):	4.399	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.029	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	-0.667	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	11.79%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	36%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

MH 2/21/24

UAM 2/21/24

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

March 26, 2024

Jake Humphrey
Evergy, Inc.
818 S Kansas Avenue
Topeka, KS 66612

RE: Project: TEC BASA NEW WELLS
Pace Project No.: 60448788

Dear Jake Humphrey:

Enclosed are the analytical results for sample(s) received by the laboratory on March 12, 2024. 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,

Alice Spiller

Alice Spiller
alice.spiller@pacelabs.com
(913)599-5665
PM Lab Management

Enclosures

cc: Shelly Gomez, Evergy
Laura Hines, Evergy, Inc.
Shannon Hughes, Evergy
Adam Irvin, Evergy
Samantha Kaney, Haley & Aldrich
Andrew Watson, Haley & Aldrich

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CERTIFICATIONS

Project: TEC BASA NEW WELLS
Pace Project No.: 60448788

Pace Analytical Services Kansas
9608 Loiret Boulevard, Lenexa, KS 66219
Arkansas Inorganic Drinking Water Certification
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

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SAMPLE SUMMARY

Project: TEC BASA NEW WELLS
Pace Project No.: 60448788

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60448788001	**MW-11A-031124**	Water	03/11/24 11:30	03/12/24 17:00
60448788002	**MW-12-031124**	Water	03/11/24 17:30	03/12/24 17:00
60448788003	**MW-13-031124**	Water	03/11/24 15:45	03/12/24 17:00
60448788004	**MW-14-031124**	Water	03/11/24 14:00	03/12/24 17:00

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SAMPLE ANALYTE COUNT

Project: TEC BASA NEW WELLS
Pace Project No.: 60448788

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60448788001	**MW-11A-031124**	EPA 200.7	JXD	6	PASI-K
		EPA 6010	JXD	1	PASI-K
		EPA 200.8	JGP	7	PASI-K
		EPA 245.1	ACLC	1	PASI-K
		SM 2540C	KVI	1	PASI-K
		SM 4500-H+B	SR1	1	PASI-K
		EPA 300.0	PL	4	PASI-K
60448788002	**MW-12-031124**	EPA 200.7	JXD	6	PASI-K
		EPA 6010	JXD	1	PASI-K
		EPA 200.8	JGP	7	PASI-K
		EPA 245.1	ACLC	1	PASI-K
		SM 2540C	KVI	1	PASI-K
		SM 4500-H+B	SR1	1	PASI-K
		EPA 300.0	PL	4	PASI-K
60448788003	**MW-13-031124**	EPA 200.7	JXD	6	PASI-K
		EPA 6010	JXD	1	PASI-K
		EPA 200.8	JGP	7	PASI-K
		EPA 245.1	ACLC	1	PASI-K
		SM 2540C	KVI	1	PASI-K
		SM 4500-H+B	SR1	1	PASI-K
		EPA 300.0	PL	4	PASI-K
60448788004	**MW-14-031124**	EPA 200.7	JXD	6	PASI-K
		EPA 6010	JXD	1	PASI-K
		EPA 200.8	JGP	7	PASI-K
		EPA 245.1	ACLC	1	PASI-K
		SM 2540C	KVI	1	PASI-K
		SM 4500-H+B	SR1	1	PASI-K
		EPA 300.0	PL	4	PASI-K

PASI-K = Pace Analytical Services - Kansas City

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PROJECT NARRATIVE

Project: TEC BASA NEW WELLS
Pace Project No.: 60448788

Method: **EPA 200.7**
Description: 200.7 Metals, Total
Client: Evergy Kansas Central, Inc.
Date: March 26, 2024

General Information:
4 samples were analyzed for EPA 200.7 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 200.7 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA NEW WELLS
Pace Project No.: 60448788

Method: **EPA 6010**
Description: 6010 MET ICP
Client: Evergy Kansas Central, Inc.
Date: March 26, 2024

General Information:
4 samples were analyzed for EPA 6010 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA NEW WELLS
Pace Project No.: 60448788

Method: **EPA 200.8**
Description: 200.8 MET ICPMS
Client: Evergy Kansas Central, Inc.
Date: March 26, 2024

General Information:
4 samples were analyzed for EPA 200.8 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 200.8 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 886907

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60448788001,60448806007

R1: RPD value was outside control limits.

- MSD (Lab ID: 3510953)
  - Antimony
  - Arsenic
  - Cadmium
  - Cobalt
  - Molybdenum
  - Selenium
  - Thallium

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA NEW WELLS
Pace Project No.: 60448788

Method: **EPA 245.1**
Description: 245.1 Mercury
Client: Evergy Kansas Central, Inc.
Date: March 26, 2024

General Information:
4 samples were analyzed for EPA 245.1 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 245.1 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA NEW WELLS
Pace Project No.: 60448788

Method: **SM 2540C**
Description: 2540C Total Dissolved Solids
Client: Evergy Kansas Central, Inc.
Date: March 26, 2024

General Information:
4 samples were analyzed for SM 2540C by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

QC Batch: 886788

L1: Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.

- LCS (Lab ID: 3510438)
  - Total Dissolved Solids

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

QC Batch: 886788

D6: The precision between the sample and sample duplicate exceeded laboratory control limits.

- DUP (Lab ID: 3510440)
  - Total Dissolved Solids

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA NEW WELLS
Pace Project No.: 60448788

Method: **SM 4500-H+B**
Description: 4500H+ pH, Electrometric
Client: Evergy Kansas Central, Inc.
Date: March 26, 2024

General Information:
4 samples were analyzed for SM 4500-H+B by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

H6: Analysis initiated outside of the 15 minute EPA required holding time.
- MW-11A-031124 (Lab ID: 60448788001)
- MW-12-031124 (Lab ID: 60448788002)
- MW-13-031124 (Lab ID: 60448788003)
- MW-14-031124 (Lab ID: 60448788004)

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA NEW WELLS
Pace Project No.: 60448788

Method: **EPA 300.0**
Description: 300.0 IC Anions 28 Days
Client: Evergy Kansas Central, Inc.
Date: March 26, 2024

General Information:
4 samples were analyzed for EPA 300.0 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 887210

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60448771006,60448781005

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 3511996)
  - Chloride

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: TEC BASA NEW WELLS
Pace Project No.: 60448788

Sample: MW-11A-031124 **Lab ID: 60448788001** Collected: 03/11/24 11:30 Received: 03/12/24 17:00 Matrix: Water

Parameters	Results	Units	Report Limit	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, Total Recoverable	**0.058**	mg/L	0.0050	1	03/13/24 16:41	03/18/24 14:35	7440-39-3	
Beryllium, Total Recoverable	**<0.0010**	mg/L	0.0010	1	03/13/24 16:41	03/18/24 14:35	7440-41-7	
Boron, Total Recoverable	**0.50**	mg/L	0.10	1	03/13/24 16:41	03/18/24 14:35	7440-42-8	
Calcium, Total Recoverable	**221**	mg/L	0.20	1	03/13/24 16:41	03/18/24 14:35	7440-70-2	
Chromium, Total Recoverable	**<0.0050**	mg/L	0.0050	1	03/13/24 16:41	03/18/24 14:35	7440-47-3	
Lead, Total Recoverable	**<0.010**	mg/L	0.010	1	03/13/24 16:41	03/18/24 14:35	7439-92-1	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Kansas City							
Lithium, Total Recoverable	**0.034**	mg/L	0.010	1	03/18/24 10:30	03/21/24 11:31	7439-93-2	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City							
Antimony, Total Recoverable	**<0.0010**	mg/L	0.0010	1	03/18/24 10:30	03/22/24 13:15	7440-36-0	R1
Arsenic, Total Recoverable	**0.0019**	mg/L	0.0010	1	03/18/24 10:30	03/22/24 13:15	7440-38-2	R1
Cadmium, Total Recoverable	**<0.00050**	mg/L	0.00050	1	03/18/24 10:30	03/22/24 13:15	7440-43-9	R1
Cobalt, Total Recoverable	**0.015**	mg/L	0.0010	1	03/18/24 10:30	03/22/24 13:15	7440-48-4	R1
Molybdenum, Total Recoverable	**0.0036**	mg/L	0.0010	1	03/18/24 10:30	03/22/24 13:15	7439-98-7	R1
Selenium, Total Recoverable	**<0.0010**	mg/L	0.0010	1	03/18/24 10:30	03/22/24 13:15	7782-49-2	R1
Thallium, Total Recoverable	**<0.0010**	mg/L	0.0010	1	03/18/24 10:30	03/22/24 13:15	7440-28-0	R1
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Kansas City							
Mercury	**<0.20**	ug/L	0.20	1	03/20/24 10:09	03/21/24 10:45	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City							
Total Dissolved Solids	**1340**	mg/L	40.0	1		03/14/24 11:43		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Kansas City							
pH at 25 Degrees C	**6.9**	Std. Units	0.10	1		03/14/24 12:14		H6
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City							
Bromide	**<1.0**	mg/L	1.0	1		03/20/24 21:27	24959-67-9	
Chloride	**321**	mg/L	20.0	20		03/20/24 21:41	16887-00-6	
Fluoride	**<0.20**	mg/L	0.20	1		03/20/24 21:27	16984-48-8	
Sulfate	**399**	mg/L	20.0	20		03/20/24 21:41	14808-79-8	

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ANALYTICAL RESULTS

Project: TEC BASA NEW WELLS
Pace Project No.: 60448788

Sample: MW-12-031124 **Lab ID: 60448788002** Collected: 03/11/24 17:30 Received: 03/12/24 17:00 Matrix: Water

Parameters	Results	Units	Report Limit	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, Total Recoverable	**0.094**	mg/L	0.0050	1	03/13/24 16:41	03/18/24 14:42	7440-39-3	
Beryllium, Total Recoverable	**<0.0010**	mg/L	0.0010	1	03/13/24 16:41	03/18/24 14:42	7440-41-7	
Boron, Total Recoverable	**0.50**	mg/L	0.10	1	03/13/24 16:41	03/18/24 14:42	7440-42-8	
Calcium, Total Recoverable	**211**	mg/L	0.20	1	03/13/24 16:41	03/18/24 14:42	7440-70-2	
Chromium, Total Recoverable	**<0.0050**	mg/L	0.0050	1	03/13/24 16:41	03/18/24 14:42	7440-47-3	
Lead, Total Recoverable	**<0.010**	mg/L	0.010	1	03/13/24 16:41	03/18/24 14:42	7439-92-1	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Kansas City							
Lithium, Total Recoverable	**0.050**	mg/L	0.010	1	03/18/24 10:30	03/21/24 11:33	7439-93-2	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City							
Antimony, Total Recoverable	**<0.0010**	mg/L	0.0010	1	03/18/24 10:30	03/22/24 13:50	7440-36-0	
Arsenic, Total Recoverable	**0.0095**	mg/L	0.0010	1	03/18/24 10:30	03/22/24 13:50	7440-38-2	
Cadmium, Total Recoverable	**<0.00050**	mg/L	0.00050	1	03/18/24 10:30	03/22/24 13:50	7440-43-9	
Cobalt, Total Recoverable	**0.041**	mg/L	0.0010	1	03/18/24 10:30	03/22/24 13:50	7440-48-4	
Molybdenum, Total Recoverable	**0.0053**	mg/L	0.0010	1	03/18/24 10:30	03/22/24 13:50	7439-98-7	
Selenium, Total Recoverable	**<0.0010**	mg/L	0.0010	1	03/18/24 10:30	03/22/24 13:50	7782-49-2	
Thallium, Total Recoverable	**<0.0010**	mg/L	0.0010	1	03/18/24 10:30	03/22/24 13:50	7440-28-0	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Kansas City							
Mercury	**<0.20**	ug/L	0.20	1	03/20/24 10:09	03/21/24 10:47	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City							
Total Dissolved Solids	**1160**	mg/L	40.0	1		03/15/24 10:59		L1
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Kansas City							
pH at 25 Degrees C	**7.0**	Std. Units	0.10	1		03/14/24 12:37		H6
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City							
Bromide	**<1.0**	mg/L	1.0	1		03/20/24 21:54	24959-67-9	
Chloride	**297**	mg/L	20.0	20		03/20/24 22:08	16887-00-6	
Fluoride	**<0.20**	mg/L	0.20	1		03/20/24 21:54	16984-48-8	
Sulfate	**363**	mg/L	20.0	20		03/20/24 22:08	14808-79-8	

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ANALYTICAL RESULTS

Project: TEC BASA NEW WELLS
Pace Project No.: 60448788

Sample: MW-13-031124 **Lab ID: 60448788003** Collected: 03/11/24 15:45 Received: 03/12/24 17:00 Matrix: Water

Parameters	Results	Units	Report Limit	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, Total Recoverable	**0.085**	mg/L	0.0050	1	03/13/24 16:41	03/18/24 14:44	7440-39-3	
Beryllium, Total Recoverable	**<0.0010**	mg/L	0.0010	1	03/13/24 16:41	03/18/24 14:44	7440-41-7	
Boron, Total Recoverable	**1.2**	mg/L	0.10	1	03/13/24 16:41	03/18/24 14:44	7440-42-8	
Calcium, Total Recoverable	**203**	mg/L	0.20	1	03/13/24 16:41	03/18/24 14:44	7440-70-2	
Chromium, Total Recoverable	**0.0052**	mg/L	0.0050	1	03/13/24 16:41	03/18/24 14:44	7440-47-3	
Lead, Total Recoverable	**<0.010**	mg/L	0.010	1	03/13/24 16:41	03/18/24 14:44	7439-92-1	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Kansas City							
Lithium, Total Recoverable	**0.022**	mg/L	0.010	1	03/18/24 10:30	03/21/24 11:39	7439-93-2	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City							
Antimony, Total Recoverable	**<0.0010**	mg/L	0.0010	1	03/18/24 10:30	03/22/24 13:27	7440-36-0	
Arsenic, Total Recoverable	**0.015**	mg/L	0.0010	1	03/18/24 10:30	03/22/24 13:27	7440-38-2	
Cadmium, Total Recoverable	**<0.00050**	mg/L	0.00050	1	03/18/24 10:30	03/22/24 13:27	7440-43-9	
Cobalt, Total Recoverable	**0.0022**	mg/L	0.0010	1	03/18/24 10:30	03/22/24 13:27	7440-48-4	
Molybdenum, Total Recoverable	**0.050**	mg/L	0.0010	1	03/18/24 10:30	03/22/24 13:27	7439-98-7	
Selenium, Total Recoverable	**0.0011**	mg/L	0.0010	1	03/18/24 10:30	03/22/24 13:27	7782-49-2	
Thallium, Total Recoverable	**<0.0010**	mg/L	0.0010	1	03/18/24 10:30	03/22/24 13:27	7440-28-0	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Kansas City							
Mercury	**<0.20**	ug/L	0.20	1	03/20/24 10:09	03/21/24 10:50	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City							
Total Dissolved Solids	**1270**	mg/L	20.0	1		03/15/24 10:59		L1
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Kansas City							
pH at 25 Degrees C	**7.8**	Std. Units	0.10	1		03/14/24 12:28		H6
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City							
Bromide	**1.5**	mg/L	1.0	1		03/20/24 22:21	24959-67-9	
Chloride	**197**	mg/L	20.0	20		03/20/24 22:34	16887-00-6	
Fluoride	**<0.20**	mg/L	0.20	1		03/20/24 22:21	16984-48-8	
Sulfate	**617**	mg/L	50.0	50		03/21/24 15:48	14808-79-8	

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ANALYTICAL RESULTS

Project: TEC BASA NEW WELLS
Pace Project No.: 60448788

Sample: MW-14-031124 **Lab ID: 60448788004** Collected: 03/11/24 14:00 Received: 03/12/24 17:00 Matrix: Water

Parameters	Results	Units	Report Limit	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, Total Recoverable	**0.033**	mg/L	0.0050	1	03/13/24 16:41	03/18/24 14:46	7440-39-3	
Beryllium, Total Recoverable	**<0.0010**	mg/L	0.0010	1	03/13/24 16:41	03/18/24 14:46	7440-41-7	
Boron, Total Recoverable	**0.91**	mg/L	0.10	1	03/13/24 16:41	03/18/24 14:46	7440-42-8	
Calcium, Total Recoverable	**180**	mg/L	0.20	1	03/13/24 16:41	03/18/24 14:46	7440-70-2	
Chromium, Total Recoverable	**<0.0050**	mg/L	0.0050	1	03/13/24 16:41	03/18/24 14:46	7440-47-3	
Lead, Total Recoverable	**<0.010**	mg/L	0.010	1	03/13/24 16:41	03/18/24 14:46	7439-92-1	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Kansas City							
Lithium, Total Recoverable	**0.031**	mg/L	0.010	1	03/18/24 10:30	03/21/24 11:41	7439-93-2	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City							
Antimony, Total Recoverable	**<0.0010**	mg/L	0.0010	1	03/18/24 10:30	03/22/24 13:30	7440-36-0	
Arsenic, Total Recoverable	**0.0014**	mg/L	0.0010	1	03/18/24 10:30	03/22/24 13:30	7440-38-2	
Cadmium, Total Recoverable	**<0.00050**	mg/L	0.00050	1	03/18/24 10:30	03/22/24 13:30	7440-43-9	
Cobalt, Total Recoverable	**<0.0010**	mg/L	0.0010	1	03/18/24 10:30	03/22/24 13:30	7440-48-4	
Molybdenum, Total Recoverable	**0.025**	mg/L	0.0010	1	03/18/24 10:30	03/22/24 13:30	7439-98-7	
Selenium, Total Recoverable	**<0.0010**	mg/L	0.0010	1	03/18/24 10:30	03/22/24 13:30	7782-49-2	
Thallium, Total Recoverable	**<0.0010**	mg/L	0.0010	1	03/18/24 10:30	03/22/24 13:30	7440-28-0	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Kansas City							
Mercury	**<0.20**	ug/L	0.20	1	03/20/24 10:09	03/21/24 10:52	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City							
Total Dissolved Solids	**1140**	mg/L	20.0	1		03/15/24 10:59		L1
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Kansas City							
pH at 25 Degrees C	**7.4**	Std. Units	0.10	1		03/14/24 12:26		H6
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City							
Bromide	**1.5**	mg/L	1.0	1		03/20/24 22:48	24959-67-9	
Chloride	**190**	mg/L	20.0	20		03/20/24 23:01	16887-00-6	
Fluoride	**<0.20**	mg/L	0.20	1		03/20/24 22:48	16984-48-8	
Sulfate	**466**	mg/L	50.0	50		03/21/24 16:00	14808-79-8	

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QUALITY CONTROL DATA

Project: TEC BASA NEW WELLS
Pace Project No.: 60448788

QC Batch: 887336 | Analysis Method: EPA 245.1
QC Batch Method: EPA 245.1 | Analysis Description: 245.1 Mercury
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60448788001, 60448788002, 60448788003, 60448788004

METHOD BLANK: 3512309 Matrix: Water
Associated Lab Samples: 60448788001, 60448788002, 60448788003, 60448788004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	<0.20	0.20	03/21/24 10:34	

LABORATORY CONTROL SAMPLE: 3512310

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.8	95	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3512311 3512312

Parameter	Units	60448714001 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	4.6	4.8	92	96	70-130	4	20	

MATRIX SPIKE SAMPLE: 3512313

Parameter	Units	60448836004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	ND	5	4.6	93	70-130	

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QUALITY CONTROL DATA

Project: TEC BASA NEW WELLS
Pace Project No.: 60448788

QC Batch: 886528
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: 60448788001, 60448788002, 60448788003, 60448788004

METHOD BLANK: 3509358 Matrix: Water
Associated Lab Samples: 60448788001, 60448788002, 60448788003, 60448788004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Barium	mg/L	<0.0050	0.0050	03/18/24 14:31	
Beryllium	mg/L	<0.0010	0.0010	03/18/24 14:31	
Boron	mg/L	<0.10	0.10	03/18/24 14:31	
Calcium	mg/L	<0.20	0.20	03/18/24 14:31	
Chromium	mg/L	<0.0050	0.0050	03/18/24 14:31	
Lead	mg/L	<0.010	0.010	03/18/24 14:31	

LABORATORY CONTROL SAMPLE: 3509359

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	mg/L	1	0.94	94	85-115	
Beryllium	mg/L	1	0.96	96	85-115	
Boron	mg/L	1	0.91	91	85-115	
Calcium	mg/L	10	9.7	97	85-115	
Chromium	mg/L	1	0.97	97	85-115	
Lead	mg/L	1	0.97	97	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3509360 3509361

Parameter	Units	60448788001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	mg/L	0.058	1	1	1.0	1.0	97	99	70-130	2	20	
Beryllium	mg/L	<0.0010	1	1	1.0	1.0	100	102	70-130	2	20	
Boron	mg/L	0.50	1	1	1.5	1.5	96	99	70-130	2	20	
Calcium	mg/L	221	10	10	230	232	91	111	70-130	1	20	
Chromium	mg/L	<0.0050	1	1	0.99	1.0	98	101	70-130	2	20	
Lead	mg/L	<0.010	1	1	0.94	0.97	94	97	70-130	2	20	

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QUALITY CONTROL DATA

Project: TEC BASA NEW WELLS
Pace Project No.: 60448788

QC Batch: 886907
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: 60448788001, 60448788002, 60448788003, 60448788004

METHOD BLANK: 3510950 Matrix: Water
Associated Lab Samples: 60448788001, 60448788002, 60448788003, 60448788004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	mg/L	<0.0010	0.0010	03/22/24 13:10	
Arsenic	mg/L	<0.0010	0.0010	03/22/24 13:10	
Cadmium	mg/L	<0.00050	0.00050	03/22/24 13:10	
Cobalt	mg/L	<0.0010	0.0010	03/22/24 13:10	
Molybdenum	mg/L	<0.0010	0.0010	03/22/24 13:10	
Selenium	mg/L	<0.0010	0.0010	03/22/24 13:10	
Thallium	mg/L	<0.0010	0.0010	03/22/24 13:10	

LABORATORY CONTROL SAMPLE: 3510951

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.04	0.039	99	85-115	
Arsenic	mg/L	0.04	0.041	103	85-115	
Cadmium	mg/L	0.04	0.042	104	85-115	
Cobalt	mg/L	0.04	0.041	103	85-115	
Molybdenum	mg/L	0.04	0.040	101	85-115	
Selenium	mg/L	0.04	0.042	106	85-115	
Thallium	mg/L	0.04	0.038	96	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3510952 3510953

Parameter	Units	60448788001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	<0.0010	0.08	0.04	0.079	0.038	99	96	70-130	69	20	R1
Arsenic	mg/L	0.0019	0.08	0.04	0.084	0.042	103	101	70-130	66	20	R1
Cadmium	mg/L	<0.00050	0.08	0.04	0.076	0.038	95	94	70-130	68	20	R1
Cobalt	mg/L	0.015	0.08	0.04	0.094	0.054	99	97	70-130	55	20	R1
Molybdenum	mg/L	0.0036	0.08	0.04	0.088	0.045	105	102	70-130	65	20	R1
Selenium	mg/L	<0.0010	0.08	0.04	0.076	0.038	95	95	70-130	66	20	R1
Thallium	mg/L	<0.0010	0.08	0.04	0.082	0.040	102	101	70-130	68	20	R1

MATRIX SPIKE SAMPLE: 3510954

Parameter	Units	60448806007 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	<10.0 ug/L	0.04	0.040	96	70-130	
Arsenic	mg/L	<0.010	0.04	0.041	99	70-130	

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QUALITY CONTROL DATA

Project: TEC BASA NEW WELLS
Pace Project No.: 60448788

MATRIX SPIKE SAMPLE: 3510954

Parameter	Units	60448806007 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Cadmium	mg/L	<5.0 ug/L	0.04	0.037	93	70-130	
Cobalt	mg/L	<0.010	0.04	0.042	102	70-130	
Molybdenum	mg/L	<0.010	0.04	0.045	103	70-130	
Selenium	mg/L	<10.0 ug/L	0.04	0.037	92	70-130	
Thallium	mg/L	<10.0 ug/L	0.04	0.041	103	70-130	

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QUALITY CONTROL DATA

Project: TEC BASA NEW WELLS
Pace Project No.: 60448788

QC Batch: 886911
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60448788001, 60448788002, 60448788003, 60448788004

METHOD BLANK: 3510960 Matrix: Water
Associated Lab Samples: 60448788001, 60448788002, 60448788003, 60448788004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lithium	mg/L	<0.010	0.010	03/21/24 11:28	

LABORATORY CONTROL SAMPLE: 3510961

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lithium	mg/L	1	0.93	93	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3510962 3510963

Parameter	Units	60448788002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lithium	mg/L	0.050	1	1	1.1	1.1	104	104	75-125	0	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: TEC BASA NEW WELLS
Pace Project No.: 60448788

QC Batch: 886566
QC Batch Method: SM 2540C
Analysis Method: SM 2540C
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60448788001

METHOD BLANK: 3509574 Matrix: Water
Associated Lab Samples: 60448788001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<5.0	5.0	03/14/24 11:28	

LABORATORY CONTROL SAMPLE: 3509575

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	1000	882	88	80-120	

SAMPLE DUPLICATE: 3509576

Parameter	Units	60448640001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	828	872	5	10	

SAMPLE DUPLICATE: 3509577

Parameter	Units	60448736003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1220	1260	3	10	

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QUALITY CONTROL DATA

Project: TEC BASA NEW WELLS
Pace Project No.: 60448788

QC Batch: 886788
QC Batch Method: SM 2540C
Analysis Method: SM 2540C
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60448788002, 60448788003, 60448788004

METHOD BLANK: 3510437 Matrix: Water
Associated Lab Samples: 60448788002, 60448788003, 60448788004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<5.0	5.0	03/15/24 10:58	

LABORATORY CONTROL SAMPLE: 3510438

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	1000	8070	807	80-120	L1

SAMPLE DUPLICATE: 3510439

Parameter	Units	60448788002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1160	1260	8	10	

SAMPLE DUPLICATE: 3510440

Parameter	Units	60448889002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	6.0	7.5	22	10	D6

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QUALITY CONTROL DATA

Project: TEC BASA NEW WELLS
Pace Project No.: 60448788

QC Batch: 886565
QC Batch Method: SM 4500-H+B
Analysis Method: SM 4500-H+B
Analysis Description: 4500H+B pH
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60448788001, 60448788002, 60448788003, 60448788004

SAMPLE DUPLICATE: 3509573

Parameter	Units	60448889001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.1	7.2	1	5	H6

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QUALITY CONTROL DATA

Project: TEC BASA NEW WELLS
Pace Project No.: 60448788

QC Batch: 887210
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: 60448788001, 60448788002, 60448788003, 60448788004

METHOD BLANK: 3511992 Matrix: Water
Associated Lab Samples: 60448788001, 60448788002, 60448788003, 60448788004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Bromide	mg/L	<1.0	1.0	03/20/24 17:13	
Chloride	mg/L	<1.0	1.0	03/20/24 17:13	
Fluoride	mg/L	<0.20	0.20	03/20/24 17:13	
Sulfate	mg/L	<1.0	1.0	03/20/24 17:13	

LABORATORY CONTROL SAMPLE: 3511993

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromide	mg/L	5	5.0	99	90-110	
Chloride	mg/L	5	4.9	98	90-110	
Fluoride	mg/L	2.5	2.4	96	90-110	
Sulfate	mg/L	5	5.1	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3511994 3511995

Parameter	Units	60448771006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Bromide	mg/L	ND	50	50	52.7	56.2	105	112	80-120	6	15	
Chloride	mg/L	23.7	50	50	72.2	77.5	97	108	80-120	7	15	
Fluoride	mg/L	ND	25	25	26.3	28.0	105	112	80-120	6	15	
Sulfate	mg/L	42.1	50	50	94.6	101	105	118	80-120	7	15	

MATRIX SPIKE SAMPLE: 3511996

Parameter	Units	60448781005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Bromide	mg/L	ND	500	555	111	80-120	
Chloride	mg/L	355	500	577	44	80-120	M1
Fluoride	mg/L	ND	250	276	110	80-120	
Sulfate	mg/L	1050	500	1520	95	80-120	

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QUALIFIERS

Project: TEC BASA NEW WELLS
Pace Project No.: 60448788

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

D6	The precision between the sample and sample duplicate exceeded laboratory control limits.
H6	Analysis initiated outside of the 15 minute EPA required holding time.
L1	Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
R1	RPD value was outside control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: TEC BASA NEW WELLS
Pace Project No.: 60448788

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60448788001	**MW-11A-031124**	EPA 200.7	886528	EPA 200.7	886572
60448788002	**MW-12-031124**	EPA 200.7	886528	EPA 200.7	886572
60448788003	**MW-13-031124**	EPA 200.7	886528	EPA 200.7	886572
60448788004	**MW-14-031124**	EPA 200.7	886528	EPA 200.7	886572
60448788001	**MW-11A-031124**	EPA 3010	886911	EPA 6010	887019
60448788002	**MW-12-031124**	EPA 3010	886911	EPA 6010	887019
60448788003	**MW-13-031124**	EPA 3010	886911	EPA 6010	887019
60448788004	**MW-14-031124**	EPA 3010	886911	EPA 6010	887019
60448788001	**MW-11A-031124**	EPA 200.8	886907	EPA 200.8	887020
60448788002	**MW-12-031124**	EPA 200.8	886907	EPA 200.8	887020
60448788003	**MW-13-031124**	EPA 200.8	886907	EPA 200.8	887020
60448788004	**MW-14-031124**	EPA 200.8	886907	EPA 200.8	887020
60448788001	**MW-11A-031124**	EPA 245.1	887336	EPA 245.1	887349
60448788002	**MW-12-031124**	EPA 245.1	887336	EPA 245.1	887349
60448788003	**MW-13-031124**	EPA 245.1	887336	EPA 245.1	887349
60448788004	**MW-14-031124**	EPA 245.1	887336	EPA 245.1	887349
60448788001	**MW-11A-031124**	SM 2540C	886566		
60448788002	**MW-12-031124**	SM 2540C	886788		
60448788003	**MW-13-031124**	SM 2540C	886788		
60448788004	**MW-14-031124**	SM 2540C	886788		
60448788001	**MW-11A-031124**	SM 4500-H+B	886565		
60448788002	**MW-12-031124**	SM 4500-H+B	886565		
60448788003	**MW-13-031124**	SM 4500-H+B	886565		
60448788004	**MW-14-031124**	SM 4500-H+B	886565		
60448788001	**MW-11A-031124**	EPA 300.0	887210		
60448788002	**MW-12-031124**	EPA 300.0	887210		
60448788003	**MW-13-031124**	EPA 300.0	887210		
60448788004	**MW-14-031124**	EPA 300.0	887210		

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Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-LENE-0009_Sample	WO# : 60448788
	Revision: 2	Effective Date: 01/12/2022

Client Name: Evergy

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 ☑ Gel

Thermometer Used: T298 **Type of Ice:** Wet Blue None

Cooler Temperature (°C): **As-read** 4.5 **Corr. Factor** -0.3 **Corrected** 4.2

Date and initials of person examining contents: 03.13.2024 MH

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#:** 67187	☑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

60448788

Scan QR Code for instructions

Company Name:	Evergy Kansas Central, Inc.	Contact/Report To:	Jake Humphrey
Street Address:	818 S Kansas Avenue, Topeka, KS 66612	Phone #:	(913)634-0605
		E-Mail:	jake.humphrey@evergy.com
		Cc E-Mail:	skaney@haleyaldrich.com
Customer Project #:			
Project Name:	TEC BASA NEW WELLS	Invoice To:	Tecumseh Center
		Invoice E-Mail:	evergyap@onlinecapturecenter.com
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	WSTR-2000018660
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [X] CT [ ] ET

County / State origin of sample(s): Kansas

Data Deliverables:
[ ] Level II [ ] Level III [ ] Level IV
[ ] EQUIS
[ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [ ] Yes [X] 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 [X] 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 **: 3 2 3

Identify Container Preservative Type***: 2 1 1

**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	200.7 / 200.8/6010/ 245.1 *see lists	2540C Total Dissolved Solids	pH, 300.0 Cl,F,SO4	Sample Comment
MW-11A-031124	GW	Grab	-	-	3/11/2024	1130	3	-	-	X	X	X	
MW-12-031124	GW	Grab	-	-	3/11/2024	1730	3	-	-	X	X	X	
MW-13-031124	GW	Grab	-	-	3/11/2024	1545	3	-	-	X	X	X	
MW-14-031124	GW	Grab	-	-	3/11/2024	1400	3	-	-	X	X	X	

Lab Use Only
Proj. Mgr: Alice Spiller
AcctNum / Client ID:
Table #:
Profile / Template: 9655
Prelog / Bottle Ord. ID: EZ 3080055

Preservation non-conformance identified for sample.

Additional Instructions from Pace®:
200.7 B,Ca,Ba,Be,Cr,Pb
200.8 Sb,As,Cd,Co,Mo,Se,Tl
6010 Li / 245.1 Hg

Collected By: (Printed Name) Matt VanderPutten
Signature:

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)	On Ice:
	T298	-0.3	4.5	4.2	

	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
Relinquished by/Company: (Signature) / SCS Engineers	03/12/2024 / 1700	JA pick	3/12/24 1706	
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 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/

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Lenexa, KS 66219
(913)599-5665

April 03, 2024

Jake Humphrey
Evergy, Inc.
818 S Kansas Avenue
Topeka, KS 66612

RE: Project: TEC BASA NEW WELLS RADCHEM
Pace Project No.: 60448798

Dear Jake Humphrey:

Enclosed are the analytical results for sample(s) received by the laboratory on March 12, 2024. 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 - Greensburg

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

Sincerely,

Alice Spiller

Alice Spiller
alice.spiller@pacelabs.com
(913)599-5665
PM Lab Management

Enclosures

cc: Shelly Gomez, Evergy
Laura Hines, Evergy, Inc.
Shannon Hughes, Evergy
Adam Irvin, Evergy
Samantha Kaney, Haley & Aldrich
Andrew Watson, Haley & Aldrich

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CERTIFICATIONS

Project: TEC BASA NEW WELLS RADCHEM
Pace Project No.: 60448798

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

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SAMPLE SUMMARY

Project: TEC BASA NEW WELLS RADCHEM
Pace Project No.: 60448798

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60448798001	**MW-11A-031124**	Water	03/11/24 11:30	03/12/24 17:00
60448798002	**MW-12-031124**	Water	03/11/24 17:30	03/12/24 17:00
60448798003	**MW-13-031124**	Water	03/11/24 15:45	03/12/24 17:00
60448798004	**MW-14-031124**	Water	03/11/24 14:00	03/12/24 17:00

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SAMPLE ANALYTE COUNT

Project: TEC BASA NEW WELLS RADCHEM
Pace Project No.: 60448798

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60448798001	**MW-11A-031124**	EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
60448798002	**MW-12-031124**	EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
60448798003	**MW-13-031124**	EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
60448798004	**MW-14-031124**	EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

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9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

PROJECT NARRATIVE

Project: TEC BASA NEW WELLS RADCHEM
Pace Project No.: 60448798

Method: **EPA 903.1**
Description: 903.1 Radium 226
Client: Evergy Kansas Central, Inc.
Date: April 03, 2024

General Information:
4 samples were analyzed for EPA 903.1 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA NEW WELLS RADCHEM
Pace Project No.: 60448798

Method: **EPA 904.0**
Description: 904.0 Radium 228
Client: Evergy Kansas Central, Inc.
Date: April 03, 2024

General Information:
4 samples were analyzed for EPA 904.0 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA NEW WELLS RADCHEM
Pace Project No.: 60448798

Method: **Total Radium Calculation**
Description: Total Radium 228+226
Client: Evergy Kansas Central, Inc.
Date: April 03, 2024

General Information:
4 samples were analyzed for Total Radium Calculation by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: TEC BASA NEW WELLS RADCHEM
Pace Project No.: 60448798

Sample: MW-11A-031124 **Lab ID: 60448798001** Collected: 03/11/24 11:30 Received: 03/12/24 17:00 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	**1.26 ± 0.714 (0.889) C:NA T:84%**	pCi/L	03/27/24 15:17	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**1.05 ± 0.462 (0.738) C:80% T:80%**	pCi/L	03/25/24 16:39	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**2.31 ± 1.18 (1.63)**	pCi/L	03/29/24 10:47	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: TEC BASA NEW WELLS RADCHEM
Pace Project No.: 60448798

Sample: MW-12-031124 **Lab ID: 60448798002** Collected: 03/11/24 17:30 Received: 03/12/24 17:00 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	**0.611 ± 0.767 (1.28) C:NA T:84%**	pCi/L	03/27/24 15:17	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**1.34 ± 0.510 (0.738) C:79% T:79%**	pCi/L	03/25/24 16:39	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.95 ± 1.28 (2.02)**	pCi/L	03/29/24 10:47	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: TEC BASA NEW WELLS RADCHEM
Pace Project No.: 60448798

Sample: MW-13-031124 **Lab ID: 60448798003** Collected: 03/11/24 15:45 Received: 03/12/24 17:00 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	**0.358 ± 0.721 (1.27) C:NA T:86%**	pCi/L	03/27/24 15:17	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.417 ± 0.363 (0.727) C:82% T:84%**	pCi/L	03/25/24 16:39	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.775 ± 1.08 (2.00)**	pCi/L	03/29/24 10:47	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: TEC BASA NEW WELLS RADCHEM
Pace Project No.: 60448798

Sample: MW-14-031124 **Lab ID: 60448798004** Collected: 03/11/24 14:00 Received: 03/12/24 17:00 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	**0.605 ± 0.771 (1.29) C:NA T:91%**	pCi/L	03/27/24 15:17	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.776 ± 0.471 (0.876) C:74% T:81%**	pCi/L	03/25/24 16:39	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.38 ± 1.24 (2.17)**	pCi/L	03/29/24 10:47	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: TEC BASA NEW WELLS RADCHEM
Pace Project No.: 60448798

QC Batch: 655689
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: 60448798001, 60448798002, 60448798003, 60448798004

METHOD BLANK: 3194228 Matrix: Water
Associated Lab Samples: 60448798001, 60448798002, 60448798003, 60448798004

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.168 ± 0.315 (0.692) C:84% T:92%	pCi/L	03/25/24 16:40	

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.

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QUALITY CONTROL - RADIOCHEMISTRY

Project: TEC BASA NEW WELLS RADCHEM
Pace Project No.: 60448798

QC Batch: 655688
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: 60448798001, 60448798002, 60448798003, 60448798004

METHOD BLANK: 3194227 Matrix: Water
Associated Lab Samples: 60448798001, 60448798002, 60448798003, 60448798004

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.204 ± 0.234 (0.138) C:NA T:91%	pCi/L	03/27/24 14:50	

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.

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QUALIFIERS

Project: TEC BASA NEW WELLS RADCHEM
Pace Project No.: 60448798

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.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: TEC BASA NEW WELLS RADCHEM
Pace Project No.: 60448798

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60448798001	**MW-11A-031124**	EPA 903.1	655688		
60448798002	**MW-12-031124**	EPA 903.1	655688		
60448798003	**MW-13-031124**	EPA 903.1	655688		
60448798004	**MW-14-031124**	EPA 903.1	655688		
60448798001	**MW-11A-031124**	EPA 904.0	655689		
60448798002	**MW-12-031124**	EPA 904.0	655689		
60448798003	**MW-13-031124**	EPA 904.0	655689		
60448798004	**MW-14-031124**	EPA 904.0	655689		
60448798001	**MW-11A-031124**	Total Radium Calculation	658554		
60448798002	**MW-12-031124**	Total Radium Calculation	658554		
60448798003	**MW-13-031124**	Total Radium Calculation	658554		
60448798004	**MW-14-031124**	Total Radium Calculation	658554		

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WO# : 60448798

60448798

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

Client Name: Evergy

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 ☑ Zip

Thermometer Used: T298 **Type of Ice:** Wet Blue None

Cooler Temperature (°C): **As-read** 17.8 **Corr. Factor** -0.3 **Corrected** 17.5 / 18.8

Temperature should be above freezing to 6°C 19.1

Date and initials of person examining contents: 03.15.2024 u

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: _____

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

60448798

Scan QR Code for instructions

Company Name:	**Evergy Kansas Central, Inc.**	Contact/Report To:	**Jake Humphrey**
Street Address:	**818 S Kansas Avenue, Topeka, KS 66612**	Phone #:	**(913)634-0605**
		E-Mail:	**jake.humphrey@evergy.com**
		Cc E-Mail:	**skaney@haleyaldrich.com**
Customer Project #:			
Project Name:	**TEC BASA NEW WELLS RADCHEM**	Invoice To:	**Tecumseh Center**
		Invoice E-Mail:	**evergyap@onlinecapturecenter.com**
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	**WSTR-2000018660**
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [X] CT [ ] ET

County / State origin of sample(s): **Kansas**

Data Deliverables:
[ ] Level II [ ] Level III [ ] Level IV
[ ] EQUIS
[ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [ ] Yes [X] 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 [X] 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	Radium 226	Radium 228, combined, QC SHEETS	Sample Comment
MW-11A-031124	GW	Grab	-	-	3/11/2024	1130	2	-	-	X	X	
MW-12-031124	GW	Grab	-	-	3/11/2024	1730	2	-	-	X	X	
MW-13-031124	GW	Grab	-	-	3/11/2024	1545	2	-	-	X	X	
MW-14-031124	GW	Grab	-	-	3/11/2024	1400	2	-	-	X	X	

Specify Container Size **: 1 1
Identify Container Preservative Type***: 2 2
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: **Alice Spiller**
AcctNum / Client ID:
Table #:
Profile / Template: **9655**
Prelog / Bottle Ord. ID: **EZ 3080057**

Preservation non-conformance identified for sample.

Additional Instructions from Pace®:

Collected By: (Printed Name) **Matt VanderPutten**
Signature:

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)	On Ice:
	T298	-0.3	18.7	18.4	

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
/ SCS Engineers	03/12/2024 / 1700	JAPAC	3/12/24 1700	
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 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/

Internal Transfer Chain of Custody

☐ Rush Multiplier____X
☒ Samples Pre-Logged into eCOC

State Of Origin: KS
Cert. Needed: ☒ Yes ☐ No

Workorder: 60448798 **Workorder Name:** TEC BASA NEW WELLS RADCHEM **Owner Received Date:** 3/12/2024 **Results Requested By:** 4/10/2024

Report To	Subcontract To
Alice Spiller Pace Analytical Kansas 9608 Loiret Blvd. Lenexa, KS 66219 Phone (913)599-5665	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						QC Sheets	Radium 226	Radium 228 and combined									LAB USE ONLY
1	MW-11A-031124	PS	3/11/2024 11:30	60448798001	Water	2						X	X	X									001
2	MW-12-031124	PS	3/11/2024 17:30	60448798002	Water	2						X	X	X									002
3	MW-13-031124	PS	3/11/2024 15:45	60448798003	Water	2						X	X	X									003
4	MW-14-031124	PS	3/11/2024 14:00	60448798004	Water	2						X	X	X									004
5																							

Transfers	Released By	Date/Time	Received By	Date/Time
1	[signature]	3/14/24 1500		
2			[signature]	3/12/24 1120
3				

Comments
KS sample 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# : 30669082

30669082

WO#: 30669082

PM: MAR Due Date: 04/05/24
CLIENT: PACE_60_LEKS

Client Name: Pace-KS

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other
Tracking Number: 7146 2376 1714

Initial / Date
Examined By: PS 3/15/24
Labeled By: PS 3/15/24
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# 10029311 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 dechlorination			✓	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 JS Date: 3/15/24 Survey Meter SN: 2501438U

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.

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Test:	Ra-226
Analyst:	LL1
Date:	3/18/2024
Batch ID:	78201
Matrix:	DW

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3194227
MB concentration:	0.204
M/B Counting Uncertainty:	0.200
MB MDC:	0.138
MB Numerical Performance Indicator:	2.00
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	#N/A

Laboratory Control Sample Assessment	LCSD (Y or N)?	y
	LCS78201	LCSD78201
Count Date:	3/27/2024	3/27/2024
Spike I.D.:	23-063	23-063
Spike Concentration (pCi/mL):	32.302	32.302
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.658	0.652
Target Conc. (pCi/L, g, F):	4.907	4.955
Uncertainty (Calculated):	0.231	0.233
Result (pCi/L, g, F):	5.722	3.941
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	1.069	0.955
Numerical Performance Indicator:	1.46	-2.02
Percent Recovery:	116.61%	79.54%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	133%	133%
Lower % Recovery Limits:	73%	73%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS78201	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD78201	
Sample Result (pCi/L, g, F):	5.722	
Sample Result Counting Uncertainty (pCi/L, g, F):	1.069	
Sample Duplicate Result (pCi/L, g, F):	3.941	
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.955	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	2.437	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	~~37.80%~~	
Duplicate Status vs Numerical Indicator:	N/A	
Duplicate Status vs RPD:	Fail***	
% RPD Limit:	32%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the RL.

Comments:

#N/A

***Batch must be re-prepped due to unacceptable precision.

NI < 3 acceptable for Non-DW 3/28/24

CLM 3/27/24

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Test:	Ra-228
Analyst:	ZPC
Date:	3/20/2024
Worklist:	78202
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3194228
MB concentration:	0.168
M/B 2 Sigma CSU:	0.315
MB MDC:	0.692
MB Numerical Performance Indicator:	1.05
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS78202	LCSD78202
Count Date:	3/25/2024	3/25/2024
Spike I.D.:	23-043	23-043
Decay Corrected Spike Concentration (pCi/mL):	37.367	37.367
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.815	0.817
Target Conc. (pCi/L, g, F):	4.583	4.576
Uncertainty (Calculated):	0.225	0.224
Result (pCi/L, g, F):	2.439	3.188
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.653	0.812
Numerical Performance Indicator:	-6.08	-3.23
Percent Recovery:	53.22%	69.67%
Status vs Numerical Indicator:	Fail**	N/A
Status vs Recovery:	Fail Low**	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS78202	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD78202	
Sample Result (pCi/L, g, F):	2.439	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.653	
Sample Duplicate Result (pCi/L, g, F):	3.188	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.812	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	-1.410	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	26.78%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	36%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

**Batch must be re-prepped due to LCS failure.

JAL
3/26/24

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

June 23, 2024

Jake Humphrey
Evergy, Inc.
818 S Kansas Avenue
Topeka, KS 66612

RE: Project: TEC BASA NEW WELLS
Pace Project No.: 60453954

Dear Jake Humphrey:

Enclosed are the analytical results for sample(s) received by the laboratory on May 30, 2024. 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,

Alice Spiller

Alice Spiller
alice.spiller@pacelabs.com
(913)599-5665
PM Lab Management

Enclosures

cc: Shelly Gomez, Evergy
Laura Hines, Evergy, Inc.
Shannon Hughes, Evergy
Adam Irvin, Evergy
Samantha Kaney, Haley & Aldrich
Andrew Watson, Haley & Aldrich

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CERTIFICATIONS

Project: TEC BASA NEW WELLS
Pace Project No.: 60453954

Pace Analytical Services Kansas
9608 Loiret Boulevard, Lenexa, KS 66219
Arkansas Inorganic Drinking Water Certification
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

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: TEC BASA NEW WELLS
Pace Project No.: 60453954

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60453954001	**MW-11A-052924**	Water	05/29/24 13:45	05/30/24 16:00
60453954002	**MW-12-052824**	Water	05/28/24 15:35	05/30/24 16:00
60453954003	**MW-13-052824**	Water	05/28/24 13:40	05/30/24 16:00
60453954004	**MW-14-052824**	Water	05/28/24 11:45	05/30/24 16:00

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SAMPLE ANALYTE COUNT

Project: TEC BASA NEW WELLS
Pace Project No.: 60453954

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60453954001	**MW-11A-052924**	EPA 200.7	JXD	6	PASI-K
		EPA 6010	JXD	1	PASI-K
		EPA 200.8	JGP	7	PASI-K
		EPA 245.1	MLD	1	PASI-K
		SM 2540C	KVI	1	PASI-K
		SM 4500-H+B	SR1	1	PASI-K
		EPA 300.0	PL	3	PASI-K
60453954002	**MW-12-052824**	EPA 200.7	JXD	6	PASI-K
		EPA 6010	JXD	1	PASI-K
		EPA 200.8	JGP	7	PASI-K
		EPA 245.1	MLD	1	PASI-K
		SM 2540C	KVI	1	PASI-K
		SM 4500-H+B	SR1	1	PASI-K
		EPA 300.0	PL	3	PASI-K
60453954003	**MW-13-052824**	EPA 200.7	JXD	6	PASI-K
		EPA 6010	JXD	1	PASI-K
		EPA 200.8	JGP	7	PASI-K
		EPA 245.1	MLD	1	PASI-K
		SM 2540C	KVI	1	PASI-K
		SM 4500-H+B	SR1	1	PASI-K
		EPA 300.0	PL	3	PASI-K
60453954004	**MW-14-052824**	EPA 200.7	JXD	6	PASI-K
		EPA 6010	JXD	1	PASI-K
		EPA 200.8	JGP	7	PASI-K
		EPA 245.1	MLD	1	PASI-K
		SM 2540C	KVI	1	PASI-K
		SM 4500-H+B	SR1	1	PASI-K
		EPA 300.0	PL	3	PASI-K

PASI-K = Pace Analytical Services - Kansas City

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: TEC BASA NEW WELLS
Pace Project No.: 60453954

Method: **EPA 200.7**
Description: 200.7 Metals, Total
Client: Evergy Kansas Central, Inc.
Date: June 23, 2024

General Information:
4 samples were analyzed for EPA 200.7 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 200.7 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 896967

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60453954001,60453957002

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 3550157)
  - Calcium

Additional Comments:

Batch Comments:

LCS spiked with 0.8ml of Spike instead on 1ml. Checked by MRV ok per QM

- QC Batch: 897077

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: TEC BASA NEW WELLS
Pace Project No.: 60453954

Method: **EPA 6010**
Description: 6010 MET ICP
Client: Evergy Kansas Central, Inc.
Date: June 23, 2024

General Information:
4 samples were analyzed for EPA 6010 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA NEW WELLS
Pace Project No.: 60453954

Method: **EPA 200.8**
Description: 200.8 MET ICPMS
Client: Evergy Kansas Central, Inc.
Date: June 23, 2024

General Information:
4 samples were analyzed for EPA 200.8 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 200.8 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA NEW WELLS
Pace Project No.: 60453954

Method: **EPA 245.1**
Description: 245.1 Mercury
Client: Evergy Kansas Central, Inc.
Date: June 23, 2024

General Information:
4 samples were analyzed for EPA 245.1 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 245.1 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA NEW WELLS
Pace Project No.: 60453954

Method: **SM 2540C**
Description: 2540C Total Dissolved Solids
Client: Evergy Kansas Central, Inc.
Date: June 23, 2024

General Information:
4 samples were analyzed for SM 2540C by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA NEW WELLS
Pace Project No.: 60453954

Method: **SM 4500-H+B**
Description: 4500H+ pH, Electrometric
Client: Evergy Kansas Central, Inc.
Date: June 23, 2024

General Information:
4 samples were analyzed for SM 4500-H+B by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

H6: Analysis initiated outside of the 15 minute EPA required holding time.
- MW-11A-052924 (Lab ID: 60453954001)
- MW-12-052824 (Lab ID: 60453954002)
- MW-13-052824 (Lab ID: 60453954003)
- MW-14-052824 (Lab ID: 60453954004)

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA NEW WELLS
Pace Project No.: 60453954

Method: **EPA 300.0**
Description: 300.0 IC Anions 28 Days
Client: Evergy Kansas Central, Inc.
Date: June 23, 2024

General Information:
4 samples were analyzed for EPA 300.0 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 897381

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60453957003

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 3552623)
  - Chloride
  - Sulfate

Additional Comments:

Analyte Comments:

QC Batch: 897381

N2: The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

- BLANK (Lab ID: 3552619)
  - Fluoride
- BLANK (Lab ID: 3554987)
  - Fluoride
- LCS (Lab ID: 3552620)
  - Fluoride
- LCS (Lab ID: 3554988)
  - Fluoride
- MS (Lab ID: 3552623)
  - Fluoride
- MW-11A-052924 (Lab ID: 60453954001)
  - Fluoride
- MW-12-052824 (Lab ID: 60453954002)
  - Fluoride

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Lenexa, KS 66219
(913)599-5665

PROJECT NARRATIVE

Project: TEC BASA NEW WELLS
Pace Project No.: 60453954

Method: **EPA 300.0**
Description: 300.0 IC Anions 28 Days
Client: Evergy Kansas Central, Inc.
Date: June 23, 2024

Analyte Comments:

QC Batch: 897381

N2: The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

- MW-13-052824 (Lab ID: 60453954003)
  - Fluoride
- MW-14-052824 (Lab ID: 60453954004)
  - Fluoride

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: TEC BASA NEW WELLS
Pace Project No.: 60453954

Sample: MW-11A-052924 **Lab ID: 60453954001** Collected: 05/29/24 13:45 Received: 05/30/24 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	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, Total Recoverable	**0.050**	mg/L	0.0050	1	06/06/24 11:13	06/10/24 13:06	7440-39-3	
Beryllium, Total Recoverable	**<0.0010**	mg/L	0.0010	1	06/06/24 11:13	06/10/24 13:06	7440-41-7	
Boron, Total Recoverable	**0.42**	mg/L	0.10	1	06/06/24 11:13	06/10/24 13:06	7440-42-8	
Calcium, Total Recoverable	**224**	mg/L	0.20	1	06/06/24 11:13	06/10/24 13:06	7440-70-2	
Chromium, Total Recoverable	**<0.0050**	mg/L	0.0050	1	06/06/24 11:13	06/10/24 13:06	7440-47-3	
Lead, Total Recoverable	**<0.010**	mg/L	0.010	1	06/06/24 11:13	06/10/24 13:06	7439-92-1	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Kansas City							
Lithium, Total Recoverable	**0.045**	mg/L	0.010	1	06/05/24 15:40	06/11/24 10:49	7439-93-2	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City							
Antimony, Total Recoverable	**<0.0010**	mg/L	0.0010	1	06/06/24 15:40	06/19/24 16:06	7440-36-0	
Arsenic, Total Recoverable	**0.0028**	mg/L	0.0010	1	06/06/24 15:40	06/19/24 16:06	7440-38-2	
Cadmium, Total Recoverable	**<0.00050**	mg/L	0.00050	1	06/06/24 15:40	06/19/24 16:06	7440-43-9	
Cobalt, Total Recoverable	**0.012**	mg/L	0.0010	1	06/06/24 15:40	06/19/24 16:06	7440-48-4	
Molybdenum, Total Recoverable	**0.0037**	mg/L	0.0010	1	06/06/24 15:40	06/19/24 16:06	7439-98-7	
Selenium, Total Recoverable	**<0.0010**	mg/L	0.0010	1	06/06/24 15:40	06/19/24 16:06	7782-49-2	
Thallium, Total Recoverable	**<0.0010**	mg/L	0.0010	1	06/06/24 15:40	06/19/24 16:06	7440-28-0	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Kansas City							
Mercury	**<0.20**	ug/L	0.20	1	06/13/24 09:17	06/13/24 15:14	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City							
Total Dissolved Solids	**1710**	mg/L	40.0	1		06/04/24 10:45		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Kansas City							
pH at 25 Degrees C	**7.1**	Std. Units	0.10	1		06/04/24 12:46		H6
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City							
Chloride	**551**	mg/L	50.0	50		06/12/24 15:09	16887-00-6	
Fluoride	**<0.20**	mg/L	0.20	1		06/12/24 14:57	16984-48-8	N2
Sulfate	**544**	mg/L	50.0	50		06/12/24 15:09	14808-79-8	

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ANALYTICAL RESULTS

Project: TEC BASA NEW WELLS
Pace Project No.: 60453954

Sample: MW-12-052824 **Lab ID: 60453954002** Collected: 05/28/24 15:35 Received: 05/30/24 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	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, Total Recoverable	**0.080**	mg/L	0.0050	1	06/06/24 11:13	06/10/24 13:11	7440-39-3	
Beryllium, Total Recoverable	**<0.0010**	mg/L	0.0010	1	06/06/24 11:13	06/10/24 13:11	7440-41-7	
Boron, Total Recoverable	**0.41**	mg/L	0.10	1	06/06/24 11:13	06/10/24 13:11	7440-42-8	
Calcium, Total Recoverable	**201**	mg/L	0.20	1	06/06/24 11:13	06/10/24 13:11	7440-70-2	
Chromium, Total Recoverable	**<0.0050**	mg/L	0.0050	1	06/06/24 11:13	06/10/24 13:11	7440-47-3	
Lead, Total Recoverable	**<0.010**	mg/L	0.010	1	06/06/24 11:13	06/10/24 13:11	7439-92-1	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Kansas City							
Lithium, Total Recoverable	**0.041**	mg/L	0.010	1	06/05/24 15:40	06/11/24 10:51	7439-93-2	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City							
Antimony, Total Recoverable	**<0.0010**	mg/L	0.0010	1	06/06/24 15:40	06/19/24 16:09	7440-36-0	
Arsenic, Total Recoverable	**0.0048**	mg/L	0.0010	1	06/06/24 15:40	06/19/24 16:09	7440-38-2	
Cadmium, Total Recoverable	**<0.00050**	mg/L	0.00050	1	06/06/24 15:40	06/19/24 16:09	7440-43-9	
Cobalt, Total Recoverable	**0.032**	mg/L	0.0010	1	06/06/24 15:40	06/19/24 16:09	7440-48-4	
Molybdenum, Total Recoverable	**0.0050**	mg/L	0.0010	1	06/06/24 15:40	06/19/24 16:09	7439-98-7	
Selenium, Total Recoverable	**<0.0010**	mg/L	0.0010	1	06/06/24 15:40	06/19/24 16:09	7782-49-2	
Thallium, Total Recoverable	**<0.0010**	mg/L	0.0010	1	06/06/24 15:40	06/19/24 16:09	7440-28-0	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Kansas City							
Mercury	**<0.20**	ug/L	0.20	1	06/13/24 09:17	06/13/24 15:16	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City							
Total Dissolved Solids	**1230**	mg/L	40.0	1		06/04/24 10:44		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Kansas City							
pH at 25 Degrees C	**6.9**	Std. Units	0.10	1		06/04/24 12:27		H6
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City							
Chloride	**322**	mg/L	20.0	20		06/11/24 16:44	16887-00-6	
Fluoride	**<0.20**	mg/L	0.20	1		06/11/24 16:29	16984-48-8	N2
Sulfate	**323**	mg/L	20.0	20		06/11/24 16:44	14808-79-8	

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ANALYTICAL RESULTS

Project: TEC BASA NEW WELLS
Pace Project No.: 60453954

Sample: MW-13-052824 **Lab ID: 60453954003** Collected: 05/28/24 13:40 Received: 05/30/24 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	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, Total Recoverable	**0.088**	mg/L	0.0050	1	06/06/24 11:13	06/10/24 13:13	7440-39-3	
Beryllium, Total Recoverable	**<0.0010**	mg/L	0.0010	1	06/06/24 11:13	06/10/24 13:13	7440-41-7	
Boron, Total Recoverable	**1.2**	mg/L	0.10	1	06/06/24 11:13	06/10/24 13:13	7440-42-8	
Calcium, Total Recoverable	**190**	mg/L	0.20	1	06/06/24 11:13	06/10/24 13:13	7440-70-2	
Chromium, Total Recoverable	**<0.0050**	mg/L	0.0050	1	06/06/24 11:13	06/10/24 13:13	7440-47-3	
Lead, Total Recoverable	**<0.010**	mg/L	0.010	1	06/06/24 11:13	06/10/24 13:13	7439-92-1	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Kansas City							
Lithium, Total Recoverable	**0.015**	mg/L	0.010	1	06/05/24 15:40	06/11/24 10:52	7439-93-2	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City							
Antimony, Total Recoverable	**<0.0010**	mg/L	0.0010	1	06/06/24 15:40	06/19/24 16:11	7440-36-0	
Arsenic, Total Recoverable	**0.019**	mg/L	0.0010	1	06/06/24 15:40	06/19/24 16:11	7440-38-2	
Cadmium, Total Recoverable	**<0.00050**	mg/L	0.00050	1	06/06/24 15:40	06/19/24 16:11	7440-43-9	
Cobalt, Total Recoverable	**0.0012**	mg/L	0.0010	1	06/06/24 15:40	06/19/24 16:11	7440-48-4	
Molybdenum, Total Recoverable	**0.057**	mg/L	0.0010	1	06/06/24 15:40	06/19/24 16:11	7439-98-7	
Selenium, Total Recoverable	**<0.0010**	mg/L	0.0010	1	06/06/24 15:40	06/19/24 16:11	7782-49-2	
Thallium, Total Recoverable	**<0.0010**	mg/L	0.0010	1	06/06/24 15:40	06/19/24 16:11	7440-28-0	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Kansas City							
Mercury	**<0.20**	ug/L	0.20	1	06/13/24 09:17	06/13/24 14:12	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City							
Total Dissolved Solids	**1170**	mg/L	20.0	1		06/04/24 10:44		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Kansas City							
pH at 25 Degrees C	**8.1**	Std. Units	0.10	1		06/04/24 12:26		H6
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City							
Chloride	**179**	mg/L	20.0	20		06/11/24 17:14	16887-00-6	
Fluoride	**<0.20**	mg/L	0.20	1		06/11/24 16:59	16984-48-8	N2
Sulfate	**699**	mg/L	20.0	20		06/11/24 17:14	14808-79-8	

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ANALYTICAL RESULTS

Project: TEC BASA NEW WELLS
Pace Project No.: 60453954

Sample: MW-14-052824 **Lab ID: 60453954004** Collected: 05/28/24 11:45 Received: 05/30/24 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	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, Total Recoverable	**0.030**	mg/L	0.0050	1	06/06/24 11:13	06/10/24 13:15	7440-39-3	
Beryllium, Total Recoverable	**<0.0010**	mg/L	0.0010	1	06/06/24 11:13	06/10/24 13:15	7440-41-7	
Boron, Total Recoverable	**0.93**	mg/L	0.10	1	06/06/24 11:13	06/10/24 13:15	7440-42-8	
Calcium, Total Recoverable	**182**	mg/L	0.20	1	06/06/24 11:13	06/10/24 13:15	7440-70-2	
Chromium, Total Recoverable	**<0.0050**	mg/L	0.0050	1	06/06/24 11:13	06/10/24 13:15	7440-47-3	
Lead, Total Recoverable	**<0.010**	mg/L	0.010	1	06/06/24 11:13	06/10/24 13:15	7439-92-1	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Kansas City							
Lithium, Total Recoverable	**0.026**	mg/L	0.010	1	06/06/24 10:18	06/10/24 11:09	7439-93-2	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City							
Antimony, Total Recoverable	**<0.0010**	mg/L	0.0010	1	06/06/24 15:40	06/19/24 16:20	7440-36-0	
Arsenic, Total Recoverable	**0.0016**	mg/L	0.0010	1	06/06/24 15:40	06/19/24 16:20	7440-38-2	
Cadmium, Total Recoverable	**<0.00050**	mg/L	0.00050	1	06/06/24 15:40	06/19/24 16:20	7440-43-9	
Cobalt, Total Recoverable	**<0.0010**	mg/L	0.0010	1	06/06/24 15:40	06/19/24 16:20	7440-48-4	
Molybdenum, Total Recoverable	**0.033**	mg/L	0.0010	1	06/06/24 15:40	06/19/24 16:20	7439-98-7	
Selenium, Total Recoverable	**<0.0010**	mg/L	0.0010	1	06/06/24 15:40	06/19/24 16:20	7782-49-2	
Thallium, Total Recoverable	**<0.0010**	mg/L	0.0010	1	06/06/24 15:40	06/19/24 16:20	7440-28-0	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Kansas City							
Mercury	**<0.20**	ug/L	0.20	1	06/13/24 09:17	06/13/24 14:14	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City							
Total Dissolved Solids	**1130**	mg/L	20.0	1		06/04/24 10:44		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Kansas City							
pH at 25 Degrees C	**7.2**	Std. Units	0.10	1		06/04/24 12:21		H6
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City							
Chloride	**203**	mg/L	20.0	20		06/11/24 17:43	16887-00-6	
Fluoride	**<0.20**	mg/L	0.20	1		06/11/24 17:28	16984-48-8	N2
Sulfate	**726**	mg/L	50.0	50		06/12/24 15:22	14808-79-8	

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QUALITY CONTROL DATA

Project: TEC BASA NEW WELLS
Pace Project No.: 60453954

QC Batch: 897898
QC Batch Method: EPA 245.1
Analysis Method: EPA 245.1
Analysis Description: 245.1 Mercury
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60453954001, 60453954002, 60453954003, 60453954004

METHOD BLANK: 3554349 Matrix: Water
Associated Lab Samples: 60453954001, 60453954002, 60453954003, 60453954004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	<0.20	0.20	06/13/24 14:28	

LABORATORY CONTROL SAMPLE: 3554350

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.6	93	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3554351 3554352

Parameter	Units	60453751001 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	4.0	4.7	80	95	70-130	17	20	

MATRIX SPIKE SAMPLE: 3554353

Parameter	Units	60453780020 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	ND	5	5.1	102	70-130	

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QUALITY CONTROL DATA

Project: TEC BASA NEW WELLS
Pace Project No.: 60453954

QC Batch: 896967
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: 60453954001, 60453954002, 60453954003, 60453954004

METHOD BLANK: 3550153 Matrix: Water
Associated Lab Samples: 60453954001, 60453954002, 60453954003, 60453954004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Barium	mg/L	<0.0050	0.0050	06/10/24 13:02	
Beryllium	mg/L	<0.0010	0.0010	06/10/24 13:02	
Boron	mg/L	<0.10	0.10	06/10/24 13:02	
Calcium	mg/L	<0.20	0.20	06/10/24 13:02	
Chromium	mg/L	<0.0050	0.0050	06/10/24 13:02	
Lead	mg/L	<0.010	0.010	06/10/24 13:02	

LABORATORY CONTROL SAMPLE: 3550154

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	mg/L	0.8	0.79	99	85-115	
Beryllium	mg/L	0.8	0.80	100	85-115	
Boron	mg/L	0.8	0.75	93	85-115	
Calcium	mg/L	8	7.9	99	85-115	
Chromium	mg/L	0.8	0.81	101	85-115	
Lead	mg/L	0.8	0.83	104	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3550155 3550156

Parameter	Units	60453954001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	mg/L	0.050	2	2	2.0	2.1	99	101	70-130	2	20	
Beryllium	mg/L	<0.0010	2	2	2.0	2.0	101	99	70-130	2	20	
Boron	mg/L	0.42	2	2	2.3	2.4	95	97	70-130	2	20	
Calcium	mg/L	224	20	20	240	247	81	112	70-130	3	20	
Chromium	mg/L	<0.0050	2	2	2.0	2.0	102	99	70-130	3	20	
Lead	mg/L	<0.010	2	2	2.0	2.0	100	100	70-130	1	20	

MATRIX SPIKE SAMPLE: 3550157

Parameter	Units	60453957002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Barium	mg/L	0.16	1	1.1	94	70-130	
Beryllium	mg/L	<0.0010	1	1.0	103	70-130	
Boron	mg/L	2.3	1	3.1	80	70-130	
Calcium	mg/L	150	10	152	22	70-130	M1
Chromium	mg/L	<0.0050	1	0.97	97	70-130	

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QUALITY CONTROL DATA

Project: TEC BASA NEW WELLS
Pace Project No.: 60453954

MATRIX SPIKE SAMPLE: 3550157

Parameter	Units	60453957002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	mg/L	<0.010	1	0.93	93	70-130	

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QUALITY CONTROL DATA

Project: TEC BASA NEW WELLS
Pace Project No.: 60453954

QC Batch: 897035
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: 60453954001, 60453954002, 60453954003, 60453954004

METHOD BLANK: 3550413 Matrix: Water
Associated Lab Samples: 60453954001, 60453954002, 60453954003, 60453954004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	mg/L	<0.0010	0.0010	06/19/24 15:52	
Arsenic	mg/L	<0.0010	0.0010	06/19/24 15:52	
Cadmium	mg/L	<0.00050	0.00050	06/19/24 15:52	
Cobalt	mg/L	<0.0010	0.0010	06/19/24 15:52	
Molybdenum	mg/L	<0.0010	0.0010	06/19/24 15:52	
Selenium	mg/L	<0.0010	0.0010	06/19/24 15:52	
Thallium	mg/L	<0.0010	0.0010	06/19/24 15:52	

LABORATORY CONTROL SAMPLE: 3550414

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.04	0.039	98	85-115	
Arsenic	mg/L	0.04	0.041	103	85-115	
Cadmium	mg/L	0.04	0.041	102	85-115	
Cobalt	mg/L	0.04	0.042	106	85-115	
Molybdenum	mg/L	0.04	0.040	100	85-115	
Selenium	mg/L	0.04	0.041	103	85-115	
Thallium	mg/L	0.04	0.038	96	85-115	

MATRIX SPIKE SAMPLE: 3550415

Parameter	Units	60453957003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	<20.0 ug/L	0.04	0.042	100	70-130	
Arsenic	mg/L	<0.020	0.04	0.044	104	70-130	
Cadmium	mg/L	<10.0 ug/L	0.04	0.040	101	70-130	
Cobalt	mg/L	<0.020	0.04	0.044	104	70-130	
Molybdenum	mg/L	<0.020	0.04	0.050	109	70-130	
Selenium	mg/L	<20.0 ug/L	0.04	0.041	102	70-130	
Thallium	mg/L	<20.0 ug/L	0.04	0.041	102	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3550416 3550417

Parameter	Units	60453805003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	<0.12 ug/L	0.04	0.04	0.039	0.039	98	98	70-130	0	20	
Arsenic	mg/L	2.0 ug/L	0.04	0.04	0.043	0.043	102	102	70-130	0	20	

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Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: TEC BASA NEW WELLS
Pace Project No.: 60453954

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3550416 3550417

Parameter	Units	60453805003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cadmium	mg/L	<0.050 ug/L	0.04	0.04	0.040	0.040	99	99	70-130	0	20	
Cobalt	mg/L	0.13J ug/L	0.04	0.04	0.041	0.040	101	101	70-130	0	20	
Molybdenum	mg/L	96.8 ug/L	0.04	0.04	0.14	0.14	115	113	70-130	1	20	
Selenium	mg/L	<0.18 ug/L	0.04	0.04	0.039	0.039	97	97	70-130	0	20	
Thallium	mg/L	<0.14 ug/L	0.04	0.04	0.040	0.040	100	100	70-130	0	20	

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QUALITY CONTROL DATA

Project: TEC BASA NEW WELLS
Pace Project No.: 60453954

QC Batch: 896856
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60453954001, 60453954002, 60453954003

METHOD BLANK: 3549633 Matrix: Water
Associated Lab Samples: 60453954001, 60453954002, 60453954003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lithium	mg/L	<0.010	0.010	06/11/24 10:05	

LABORATORY CONTROL SAMPLE: 3549634

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lithium	mg/L	1	0.98	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3549635 3549636

Parameter	Units	60453754003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lithium	mg/L	38.7 ug/L	1	1	1.1	1.1	108	109	75-125	1	20	

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QUALITY CONTROL DATA

Project: TEC BASA NEW WELLS
Pace Project No.: 60453954

QC Batch: 896974
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60453954004

METHOD BLANK: 3550181 Matrix: Water
Associated Lab Samples: 60453954004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lithium	mg/L	<0.010	0.010	06/10/24 11:05	

LABORATORY CONTROL SAMPLE: 3550182

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lithium	mg/L	1	1.0	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3550183 3550184

Parameter	Units	60453954004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lithium	mg/L	0.026	1	1	1.1	1.0	105	101	75-125	4	20	

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QUALITY CONTROL DATA

Project: TEC BASA NEW WELLS
Pace Project No.: 60453954

QC Batch: 896638 | Analysis Method: SM 2540C
QC Batch Method: SM 2540C | Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60453954001, 60453954002, 60453954003, 60453954004

METHOD BLANK: 3548689 Matrix: Water
Associated Lab Samples: 60453954001, 60453954002, 60453954003, 60453954004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<5.0	5.0	06/04/24 10:43	

LABORATORY CONTROL SAMPLE: 3548690

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	1000	923	92	80-120	

SAMPLE DUPLICATE: 3548691

Parameter	Units	60453931001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	198	195	1	10	H1

SAMPLE DUPLICATE: 3548692

Parameter	Units	60453954001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1710	1620	6	10	

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QUALITY CONTROL DATA

Project: TEC BASA NEW WELLS
Pace Project No.: 60453954

QC Batch: 896662
QC Batch Method: SM 4500-H+B
Analysis Method: SM 4500-H+B
Analysis Description: 4500H+B pH
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60453954001, 60453954002, 60453954003, 60453954004

SAMPLE DUPLICATE: 3548810

Parameter	Units	60453954004 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.2	7.3	2	5	H6

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QUALITY CONTROL DATA

Project: TEC BASA NEW WELLS
Pace Project No.: 60453954

QC Batch: 897381
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: 60453954001, 60453954002, 60453954003, 60453954004

METHOD BLANK: 3552619 Matrix: Water
Associated Lab Samples: 60453954001, 60453954002, 60453954003, 60453954004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<1.0	1.0	06/11/24 08:59	
Fluoride	mg/L	<0.20	0.20	06/11/24 08:59	N2
Sulfate	mg/L	<1.0	1.0	06/11/24 08:59	

METHOD BLANK: 3554987 Matrix: Water
Associated Lab Samples: 60453954001, 60453954002, 60453954003, 60453954004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<1.0	1.0	06/12/24 10:42	
Fluoride	mg/L	<0.20	0.20	06/12/24 10:42	N2
Sulfate	mg/L	<1.0	1.0	06/12/24 10:42	

LABORATORY CONTROL SAMPLE: 3552620

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	107	90-110	N2
Sulfate	mg/L	5	4.8	97	90-110	

LABORATORY CONTROL SAMPLE: 3554988

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.9	99	90-110	
Fluoride	mg/L	2.5	2.6	106	90-110	N2
Sulfate	mg/L	5	4.7	94	90-110	

MATRIX SPIKE SAMPLE: 3552623

Parameter	Units	60453957003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	14400	10000	33600	192	80-120	M1
Fluoride	mg/L	2.6	50	58.6	112	80-120	N2
Sulfate	mg/L	2010	1000	3710	170	80-120	M1

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QUALIFIERS

Project: TEC BASA NEW WELLS
Pace Project No.: 60453954

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.

BATCH QUALIFIERS

Batch: 897077

[1]	LCS spiked with 0.8ml of Spike instead on 1ml. Checked by MRV ok per QM

ANALYTE QUALIFIERS

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.
N2	The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: TEC BASA NEW WELLS
Pace Project No.: 60453954

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60453954001	**MW-11A-052924**	EPA 200.7	896967	EPA 200.7	897077
60453954002	**MW-12-052824**	EPA 200.7	896967	EPA 200.7	897077
60453954003	**MW-13-052824**	EPA 200.7	896967	EPA 200.7	897077
60453954004	**MW-14-052824**	EPA 200.7	896967	EPA 200.7	897077
60453954001	**MW-11A-052924**	EPA 3010	896856	EPA 6010	896992
60453954002	**MW-12-052824**	EPA 3010	896856	EPA 6010	896992
60453954003	**MW-13-052824**	EPA 3010	896856	EPA 6010	896992
60453954004	**MW-14-052824**	EPA 3010	896974	EPA 6010	897081
60453954001	**MW-11A-052924**	EPA 200.8	897035	EPA 200.8	897201
60453954002	**MW-12-052824**	EPA 200.8	897035	EPA 200.8	897201
60453954003	**MW-13-052824**	EPA 200.8	897035	EPA 200.8	897201
60453954004	**MW-14-052824**	EPA 200.8	897035	EPA 200.8	897201
60453954001	**MW-11A-052924**	EPA 245.1	897898	EPA 245.1	898078
60453954002	**MW-12-052824**	EPA 245.1	897898	EPA 245.1	898078
60453954003	**MW-13-052824**	EPA 245.1	897898	EPA 245.1	898078
60453954004	**MW-14-052824**	EPA 245.1	897898	EPA 245.1	898078
60453954001	**MW-11A-052924**	SM 2540C	896638		
60453954002	**MW-12-052824**	SM 2540C	896638		
60453954003	**MW-13-052824**	SM 2540C	896638		
60453954004	**MW-14-052824**	SM 2540C	896638		
60453954001	**MW-11A-052924**	SM 4500-H+B	896662		
60453954002	**MW-12-052824**	SM 4500-H+B	896662		
60453954003	**MW-13-052824**	SM 4500-H+B	896662		
60453954004	**MW-14-052824**	SM 4500-H+B	896662		
60453954001	**MW-11A-052924**	EPA 300.0	897381		
60453954002	**MW-12-052824**	EPA 300.0	897381		
60453954003	**MW-13-052824**	EPA 300.0	897381		
60453954004	**MW-14-052824**	EPA 300.0	897381		

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WO# : 60453954

60453954

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

Client Name: Evergy Kansas Central (

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: T249 **Type of Ice:** Wet Blue None

Cooler Temperature (°C): **As-read** 1.1 **Corr. Factor** 0.0 **Corrected** 1.1

Date and initials of person examining contents: AF 6/3

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#: 6308010/6310006	☑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

Scan QR Code for instructions

Company Name:	Evergy Kansas Central, Inc.
Street Address:	818 S Kansas Avenue, Topeka, KS 66612
Customer Project #:	
Project Name:	TEC BASA NEW WELLS
Site Collection Info/Facility ID (as applicable):	

Contact/Report To:	Jake Humphrey
Phone #:	(913)634-0605
E-Mail:	jake.humphrey@evergy.com
Cc E-Mail:	skaney@haleyaldrich.com
Invoice To:	Lawrence Center
Invoice E-Mail:	evergyap@onlinecapturecenter.com
Purchase Order # (if applicable):	WSTR-2000095397
Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [X] CT [ ] ET

County / State origin of sample(s): Kansas

Data Deliverables:
[ ] Level II [ ] Level III [ ] Level IV
[ ] EQUIS
[ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [ ] Yes [X] 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 [X] 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	200.7 / 200.8/6010/ 245.1 *see lists	2540C Total Dissolved Solids	pH, 300.0 Cl,F,SO4	Sample Comment
MW-11A-052924	GW	Grab	-	-	5/29/2024	1345	3	-	-	X	X	X	60453954
MW-12-052824	GW	Grab	-	-	5/28/2024	1535	3	-	-	X	X	X	
MW-13-052824	GW	Grab	-	-	5/28/2024	1340	3	-	-	X	X	X	
MW-14-052824	GW	Grab	-	-	5/28/2024	1145	3	-	-	X	X	X	

Specify Container Size **: 3 2 3
Identify Container Preservative Type***: 2 1 1
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: Alice Spiller
AcctNum / Client ID:
Table #:
Profile / Template: 9655
Prelog / Bottle Ord. ID: EZ 3107194

Preservation non-conformance identified for sample.

Additional Instructions from Pace®:
200.7 B,Ca,Ba,Be,Cr,Pb
200.8 Sb,As,Cd,Co,Mo,Se,Tl
6010 Li / 245.1 Hg

Collected By:
(Printed Name): Jason R. Franks
Signature: Jason R. Franks

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)	On Ice:
				1.1	

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Jason R. Franks / SCS	05/30/24 / 16:00		5/30 1600
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: 1 of 1

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Client: EKC

Profile #

Site: Basa New Wells

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	BP3C	BP3Z	WPDU	ZPLC	Other		
1	WT																			1	1		1									
2																				1	1		1									
3																				1	1		1									
4																				1	1		1									
5																																
6																																
7																																
8																																
9																																
10																																
11																																
12																																

Container Codes

Glass				Plastic		Misc.	
DG9B	40mL bisulfate clear vial	WGKU	8oz clear soil jar	BP1C	1L NAOH plastic	I	Wipe/Swab
DG9H	40mL HCl amber voa vial	WGFU	4oz clear soil jar	BP1N	1L HNO3 plastic	SP5T	120mL Coliform Na Thiosulfate
DG9M	40mL MeOH clear vial	WG2U	2oz clear soil jar	BP1S	1L H2SO4 plastic	ZPLC	Ziploc Bag
DG9Q	40mL TSP amber vial	JGFU	4oz unpreserved amber wide	BP1U	1L unpreserved plastic	AF	Air Filter
DG9S	40mL H2SO4 amber vial	AG0U	100mL unores amber glass	BP1Z	1L NaOH, Zn Acetate	C	Air Cassettes
DG9T	40mL Na Thio amber vial	AG1H	1L HCl amber glass	BP2C	500mL NAOH plastic	R	Terracore Kit
DG9U	40mL amber unpreserved	AG1S	1L H2SO4 amber glass	BP2N	500mL HNO3 plastic	U	Summa Can
VG9H	40mL HCl clear vial	AG1T	1L Na Thiosulfate clear/amber glass	BP2S	500mL H2SO4 plastic		
VG9T	40mL Na Thio. clear vial	AG1U	1liter unpres amber glass	BP2U	500mL unpreserved plastic		
VG9U	40mL unpreserved clear vial	AG2N	500mL HNO3 amber glass	BP2Z	500mL NaOH, Zn Acetate	Matrix	
BG1S	1liter H2SO4 clear glass	AG2S	500mL H2SO4 amber glass	BP3C	250mL NaOH plastic		
BG1U	1liter unpres glass	AG3S	250mL H2SO4 amber glass	BP3F	250mL HNO3 plastic - field filtered	WT	Water
BG3H	250mL HCL Clear glass	AG2U	500mL unpres amber glass	BP3N	250mL HNO3 plastic	SL	Solid
BG3U	250mL Unpres Clear glass	AG3U	250mL unpres amber glass	BP3U	250mL unpreserved plastic	NAL	Non-aqueous Liquid
WGDU	16oz clear soil jar	AG4U	125mL unpres amber glass	BP3S	250mL H2SO4 plastic	OL	OIL
		AG5U	100mL unpres amber glass	BP3Z	250mL NaOH, Zn Acetate	WP	Wipe
				BP4U	125mL unpreserved plastic	DW	Drinking Water
				BP4N	125mL HNO3 plastic		
				BP4S	125mL H2SO4 plastic		
				WPDU	16oz unpresserved plstic		

Work Order Number: ~~60453946~~

60453954

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

July 01, 2024

Jake Humphrey
Evergy, Inc.
818 S Kansas Avenue
Topeka, KS 66612

RE: Project: TEC BASA NEW WELLS RADCHEM
Pace Project No.: 60453955

Dear Jake Humphrey:

Enclosed are the analytical results for sample(s) received by the laboratory on May 30, 2024. 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 - Greensburg

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

Sincerely,

Alice Spiller

Alice Spiller
alice.spiller@pacelabs.com
(913)599-5665
PM Lab Management

Enclosures

cc: Shelly Gomez, Evergy
Laura Hines, Evergy, Inc.
Shannon Hughes, Evergy
Adam Irvin, Evergy
Samantha Kaney, Haley & Aldrich
Andrew Watson, Haley & Aldrich

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CERTIFICATIONS

Project: TEC BASA NEW WELLS RADCHEM
Pace Project No.: 60453955

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

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SAMPLE SUMMARY

Project: TEC BASA NEW WELLS RADCHEM
Pace Project No.: 60453955

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60453955001	**MW-11A-052924**	Water	05/29/24 13:45	05/30/24 16:00
60453955002	**MW-12-052824**	Water	05/28/24 15:35	05/30/24 16:00
60453955003	**MW-13-052824**	Water	05/28/24 13:40	05/30/24 16:00
60453955004	**MW-14-052824**	Water	05/28/24 11:45	05/30/24 16:00

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SAMPLE ANALYTE COUNT

Project: TEC BASA NEW WELLS RADCHEM
Pace Project No.: 60453955

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60453955001	**MW-11A-052924**	EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
60453955002	**MW-12-052824**	EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
60453955003	**MW-13-052824**	EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
60453955004	**MW-14-052824**	EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

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PROJECT NARRATIVE

Project: TEC BASA NEW WELLS RADCHEM
Pace Project No.: 60453955

Method: **EPA 903.1**
Description: 903.1 Radium 226
Client: Evergy Kansas Central, Inc.
Date: July 01, 2024

General Information:
4 samples were analyzed for EPA 903.1 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA NEW WELLS RADCHEM
Pace Project No.: 60453955

Method: **EPA 904.0**
Description: 904.0 Radium 228
Client: Evergy Kansas Central, Inc.
Date: July 01, 2024

General Information:
4 samples were analyzed for EPA 904.0 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA NEW WELLS RADCHEM
Pace Project No.: 60453955

Method: **Total Radium Calculation**
Description: Total Radium 228+226
Client: Evergy Kansas Central, Inc.
Date: July 01, 2024

General Information:
4 samples were analyzed for Total Radium Calculation by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: TEC BASA NEW WELLS RADCHEM
Pace Project No.: 60453955

Sample: MW-11A-052924 **Lab ID: 60453955001** Collected: 05/29/24 13:45 Received: 05/30/24 16:00 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	**0.534 ± 0.862 (1.49) C:NA T:93%**	pCi/L	06/24/24 15:17	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**1.87 ± 0.810 (1.35) C:88% T:85%**	pCi/L	06/24/24 19:51	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**2.40 ± 1.67 (2.84)**	pCi/L	06/25/24 17:23	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: TEC BASA NEW WELLS RADCHEM
Pace Project No.: 60453955

Sample: MW-12-052824 **Lab ID: 60453955002** Collected: 05/28/24 15:35 Received: 05/30/24 16:00 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	**1.06 ± 1.03 (1.63) C:NA T:85%**	pCi/L	06/24/24 15:17	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**1.10 ± 0.424 (0.619) C:85% T:88%**	pCi/L	06/24/24 15:32	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**2.16 ± 1.45 (2.25)**	pCi/L	06/25/24 17:23	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: TEC BASA NEW WELLS RADCHEM
Pace Project No.: 60453955

Sample: MW-13-052824 **Lab ID: 60453955003** Collected: 05/28/24 13:40 Received: 05/30/24 16:00 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	**1.13 ± 1.06 (1.68) C:NA T:89%**	pCi/L	06/24/24 15:17	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.367 ± 0.381 (0.787) C:76% T:82%**	pCi/L	06/24/24 15:32	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.50 ± 1.44 (2.47)**	pCi/L	06/25/24 17:23	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: TEC BASA NEW WELLS RADCHEM
Pace Project No.: 60453955

Sample: MW-14-052824 **Lab ID: 60453955004** Collected: 05/28/24 11:45 Received: 05/30/24 16:00 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	**0.295 ± 1.00 (1.81) C:NA T:92%**	pCi/L	06/24/24 15:17	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.635 ± 0.391 (0.731) C:86% T:84%**	pCi/L	06/24/24 15:33	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.930 ± 1.39 (2.54)**	pCi/L	06/25/24 17:23	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: TEC BASA NEW WELLS RADCHEM
Pace Project No.: 60453955

QC Batch: 674003
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: 60453955001, 60453955002, 60453955003, 60453955004

METHOD BLANK: 3281387 Matrix: Water
Associated Lab Samples: 60453955001, 60453955002, 60453955003, 60453955004

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.480 ± 0.326 (0.620) C:85% T:91%	pCi/L	06/24/24 15:32	

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

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QUALITY CONTROL - RADIOCHEMISTRY

Project: TEC BASA NEW WELLS RADCHEM
Pace Project No.: 60453955

QC Batch: 674002
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: 60453955001, 60453955002, 60453955003, 60453955004

METHOD BLANK: 3281386 Matrix: Water
Associated Lab Samples: 60453955001, 60453955002, 60453955003, 60453955004

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.211 ± 0.413 (0.742) C:NA T:95%	pCi/L	06/24/24 15:05	

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.

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QUALIFIERS

Project: TEC BASA NEW WELLS RADCHEM
Pace Project No.: 60453955

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.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: TEC BASA NEW WELLS RADCHEM
Pace Project No.: 60453955

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60453955001	**MW-11A-052924**	EPA 903.1	674002		
60453955002	**MW-12-052824**	EPA 903.1	674002		
60453955003	**MW-13-052824**	EPA 903.1	674002		
60453955004	**MW-14-052824**	EPA 903.1	674002		
60453955001	**MW-11A-052924**	EPA 904.0	674003		
60453955002	**MW-12-052824**	EPA 904.0	674003		
60453955003	**MW-13-052824**	EPA 904.0	674003		
60453955004	**MW-14-052824**	EPA 904.0	674003		
60453955001	**MW-11A-052924**	Total Radium Calculation	678329		
60453955002	**MW-12-052824**	Total Radium Calculation	678329		
60453955003	**MW-13-052824**	Total Radium Calculation	678329		
60453955004	**MW-14-052824**	Total Radium Calculation	678329		

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WO# : 60453955

60453955

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

Client Name: Evergy Kansas Central

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: T299 **Type of Ice:** Wet Blue None AF

Cooler Temperature (°C): As-read 1.1 AF Corr. Factor 0.0 Corrected 1.1

Temperature should be above freezing to 6°C 28.1 28.1

Date and initials of person examining contents: AF 6/3

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#: 6308010/6210006	☑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

Scan QR Code for instructions

Company Name:	Evergy Kansas Central, Inc.	Contact/Report To:	Jake Humphrey
Street Address:	818 S Kansas Avenue, Topeka, KS 66612	Phone #:	(913)634-0605
		E-Mail:	jake.humphrey@evergy.com
		Cc E-Mail:	skaney@haleyaldrich.com
Customer Project #:			
Project Name:	TEC BASA NEW WELLS RADCHEM	Invoice To:	Lawrence Center
		Invoice E-Mail:	evergyap@onlinecapturecenter.com
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	WSTR-2000095397
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [X] CT [ ] ET

County / State origin of sample(s): Kansas

Data Deliverables: [ ] Level II [ ] Level III [ ] Level IV [ ] EQUIS [ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [ ] Yes [X] 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 [X] 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

Identify Container Preservative Type***: 2 2

Analysis Requested: Radium 226; Radium 228, combined, QC SHEETS

**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: Alice Spiller

AcctNum / Client ID:

Table #:

Profile / Template: 9655

Prelog / Bottle Ord. ID: EZ 3107195

Preservation non-conformance identified for sample.

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
MW-11A-052924	GW	Grab	-	-	5/29/2024	1345	2	-	-	60453455
MW-12-052824	GW	Grab	-	-	5/28/2024	1535	2	-	-	
MW-13-052824	GW	Grab	-	-	5/28/2024	1340	2	-	-	
MW-14-052824	GW	Grab	-	-	5/28/2024	1145	2	-	-	

Additional Instructions from Pace®:

Collected By: (Printed Name) Jason R. Franks

Signature: Jason R. Franks

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)	On Ice:
				28.1 AF	

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Jason R. Franks / SCS	05/30/24 / 16:00		5/30 1600
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: 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/

Client: EKC

Profile #

Site: New Wells Radchem

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	BP3C	BP3Z	WPDU	ZPLC	Other		
1	WT																					2										
2																						2										
3																						2										
4																						2										
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	
BP1C	1L NAOH plastic
BP1N	1L HNO3 plastic
BP1S	1L H2SO4 plastic
BP1U	1L unpreserved plastic
BP1Z	1L NaOH, Zn Acetate
BP2C	500mL NAOH plastic
BP2N	500mL HNO3 plastic
BP2S	500mL H2SO4 plastic
BP2U	500mL unpreserved plastic
BP2Z	500mL NaOH, Zn Acetate
BP3C	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: 60453955

Internal Transfer Chain of Custody

☐ Rush Multiplier____X
☐ Samples Pre-Logged into eCOC

State Of Origin: KS
Cert. Needed: ☒ Yes ☐ No

Workorder: 60453955 **Workorder Name:** TEC BASA NEW WELLS RADCHEM **Owner Received Date:** 5/30/2024 **Results Requested By:** 6/28/2024

Report To	Subcontract To
Alice Spiller Pace Analytical Kansas 9608 Loiret Blvd. Lenexa, KS 66219 Phone (913)599-5665	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						QC Sheets	Radium 226	Radium 228 and combined										LAB USE ONLY
1	MW-11A-052924	PS	5/29/2024 13:45	60453955001	Water	2						X	X	X										001
2	MW-12-052824	PS	5/28/2024 15:35	60453955002	Water	2						X	X	X										002
3	MW-13-052824	PS	5/28/2024 13:40	60453955003	Water	2						X	X	X										003
4	MW-14-052824	PS	5/28/2024 11:45	60453955004	Water	2						X	X	X										004
5																								

Transfers	Released By	Date/Time	Received By	Date/Time
1	TA PACE	6/5/24 1700	Evan Laughlin	6/6/24 940
2				
3				

Comments
Location: 60-R28-S1

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# : 30689678
30689678

DC#_Title: ENV-FRM-GBUR-0088 v07_Sample Condition Upon Receipt-Greensburg

Effective Date: 01/04/2024

WO# : 30689678

PM: MAR Due Date: 06/27/24

CLIENT: PACE_60_LEKS

Client Name: Pace - Lenexa, KS

Proj

Initial / Date

Courier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other

Tracking Number: 7146 2380 0016

Examined By: EJ 6/6/24

Labeled By: EJ 6/6/24

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

Comments:	Yes	No	NA	pH paper Lot# 10D2931 / D.P.D. Residual Chlorine Lot # —
Chain of Custody Present	✓			1.
Chain of Custody Filled Out: -Were client corrections present on COC	✓			2.
Chain of Custody Relinquished		✓		
Sampler Name & Signature on COC:	✓			3.
Sample Labels match COC: -Includes date/time/ID Matrix: WT	✓			4.
Samples Arrived within Hold Time:	✓			5.
Short Hold Time Analysis (<72hr remaining):		✓		6.
Rush Turn Around Time Requested:		✓		7.
Sufficient Volume:	✓			8.
Correct Containers Used: -Pace Containers Used	✓			9.
Containers Intact:	✓			10.
Orthophosphate field filtered:			✓	11.
Hex Cr Aqueous samples field filtered:			✓	12.
Organic Samples checked for dichlorination			✓	13.
Filtered volume received for dissolved tests:			✓	14:
All containers checked for preservation: exceptions: VOA, coliform, TOC, O&G, Phenolics, Radon, non-aqueous matrix	✓			15:
All containers meet method preservation requirements:	✓			16. pH<2 / Initial when completed EJ / 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 EJ / Date: 6/6/24 / 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.

Page 1 of 1

Qualtrax ID: 55680

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Test: Ra-226
Analyst: LL1
Date:
Batch ID: 79634
Matrix: DW

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3281386
MB concentration:	0.211
M/B Counting Uncertainty:	0.413
MB MDC:	0.742
MB Numerical Performance Indicator:	1.00
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	y
	LCS79634	LCSD79634
Count Date:	6/24/2024	6/24/2024
Spike I.D.:	23-063	23-063
Spike Concentration (pCi/mL):	32.298	32.298
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.652	0.657
Target Conc. (pCi/L, g, F):	4.951	4.915
Uncertainty (Calculated):	0.233	0.231
Result (pCi/L, g, F):	4.218	6.425
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	1.113	1.319
Numerical Performance Indicator:	-1.26	2.21
Percent Recovery:	85.19%	130.72%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	133%	133%
Lower % Recovery Limits:	73%	73%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS79634	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD79634	
Sample Result (pCi/L, g, F):	4.218	
Sample Result Counting Uncertainty (pCi/L, g, F):	1.113	
Sample Duplicate Result (pCi/L, g, F):	6.425	
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	1.319	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	-2.506	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	42.17%	
Duplicate Status vs Numerical Indicator:	N/A	
Duplicate Status vs RPD:	Fail***	
% RPD Limit:	32%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the RL.

CLM 6/24/24

Comments:

RPDNL<3 NI <3 acceptable for NON-DW samples LAM 6/25/24

***Batch must be re-prepped due to unacceptable precision.

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Test:	Ra-228
Analyst:	ZPC
Date:	6/14/2024
Worklist:	79635
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3281387
MB concentration:	0.480
M/B 2 Sigma CSU:	0.326
MB MDC:	0.620
MB Numerical Performance Indicator:	2.89
MB Status vs Numerical Indicator:	Warning
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS79635	LCSD79635
Count Date:	6/24/2024	6/24/2024
Spike I.D.:	23-043	23-043
Decay Corrected Spike Concentration (pCi/mL):	36.262	36.262
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.819	0.820
Target Conc. (pCi/L, g, F):	4.428	4.421
Uncertainty (Calculated):	0.217	0.217
Result (pCi/L, g, F):	3.609	3.305
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.868	0.792
Numerical Performance Indicator:	-1.80	-2.67
Percent Recovery:	81.50%	74.75%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS79635	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD79635	
Sample Result (pCi/L, g, F):	3.609	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.868	
Sample Duplicate Result (pCi/L, g, F):	3.305	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.792	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	0.507	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	8.63%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	36%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

6/25/24

6/26/24

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

July 31, 2024

Jake Humphrey
Evergy, Inc.
818 S Kansas Avenue
Topeka, KS 66612

RE: Project: TEC BASA New Compliance Wells
Pace Project No.: 60456685

Dear Jake Humphrey:

Enclosed are the analytical results for sample(s) received by the laboratory on July 12, 2024. 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

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

Sincerely,

Alice Spiller

Alice Spiller
alice.spiller@pacelabs.com
(913)599-5665
PM Lab Management

Enclosures

cc: Shelly Gomez, Evergy
Laura Hines, Evergy, Inc.
Shannon Hughes, Evergy
Adam Irvin, Evergy
Samantha Kaney, Haley & Aldrich
Nick Williams, Haley Aldrich

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

CERTIFICATIONS

Project: TEC BASA New Compliance Wells
Pace Project No.: 60456685

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
Arkansas Certification #: 88-00679
Colorado Division of Oil and Public Safety
Illinois Certification #: 2000302023-6
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

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Lenexa, KS 66219
(913)599-5665

SAMPLE SUMMARY

Project: TEC BASA New Compliance Wells
Pace Project No.: 60456685

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60456685001	**MW-11A-071124**	Water	07/11/24 11:00	07/12/24 12:50
60456685002	**MW-12-071124**	Water	07/11/24 10:45	07/12/24 12:50
60456685003	**MW-13-071124**	Water	07/11/24 12:00	07/12/24 12:50
60456685004	**MW-14-071124**	Water	07/11/24 12:10	07/12/24 12:50

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Lenexa, KS 66219
(913)599-5665

SAMPLE ANALYTE COUNT

Project: TEC BASA New Compliance Wells
Pace Project No.: 60456685

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60456685001	**MW-11A-071124**	EPA 200.7	ARMN	6	PASI-K
		EPA 6010	ARMN	1	PASI-K
		EPA 200.8	JGP	7	PASI-K
		EPA 245.1	MLD	1	PASI-K
		EPA 903.1	DMC	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2540C	KVI	1	PASI-K
		SM 4500-H+B	TML	1	PASI-K
		EPA 300.0	PL	3	PASI-K
60456685002	**MW-12-071124**	EPA 200.7	ARMN	6	PASI-K
		EPA 6010	ARMN	1	PASI-K
		EPA 200.8	JGP	7	PASI-K
		EPA 245.1	MLD	1	PASI-K
		EPA 903.1	DMC	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2540C	KVI	1	PASI-K
		SM 4500-H+B	TML	1	PASI-K
		EPA 300.0	PL	3	PASI-K
60456685003	**MW-13-071124**	EPA 200.7	ARMN	6	PASI-K
		EPA 6010	ARMN	1	PASI-K
		EPA 200.8	JGP	7	PASI-K
		EPA 245.1	MLD	1	PASI-K
		EPA 903.1	DMC	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2540C	KVI	1	PASI-K
		SM 4500-H+B	TML	1	PASI-K
		EPA 300.0	PL	3	PASI-K
60456685004	**MW-14-071124**	EPA 200.7	ARMN	6	PASI-K
		EPA 6010	ARMN	1	PASI-K
		EPA 200.8	JGP	7	PASI-K
		EPA 245.1	MLD	1	PASI-K
		EPA 903.1	DMC	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: TEC BASA New Compliance Wells
Pace Project No.: 60456685

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 2540C	KVI	1	PASI-K
		SM 4500-H+B	TML	1	PASI-K
		EPA 300.0	PL	3	PASI-K

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

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PROJECT NARRATIVE

Project: TEC BASA New Compliance Wells
Pace Project No.: 60456685

Method: **EPA 200.7**
Description: 200.7 Metals, Total
Client: Evergy Kansas Central, Inc.
Date: July 31, 2024

General Information:
4 samples were analyzed for EPA 200.7 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 200.7 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA New Compliance Wells
Pace Project No.: 60456685

Method: **EPA 6010**
Description: 6010 MET ICP
Client: Evergy Kansas Central, Inc.
Date: July 31, 2024

General Information:
4 samples were analyzed for EPA 6010 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA New Compliance Wells
Pace Project No.: 60456685

Method: **EPA 200.8**
Description: 200.8 MET ICPMS
Client: Evergy Kansas Central, Inc.
Date: July 31, 2024

General Information:
4 samples were analyzed for EPA 200.8 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 200.8 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA New Compliance Wells
Pace Project No.: 60456685

Method: **EPA 245.1**
Description: 245.1 Mercury
Client: Evergy Kansas Central, Inc.
Date: July 31, 2024

General Information:
4 samples were analyzed for EPA 245.1 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 245.1 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA New Compliance Wells
Pace Project No.: 60456685

Method: **EPA 903.1**
Description: 903.1 Radium 226
Client: Evergy Kansas Central, Inc.
Date: July 31, 2024

General Information:
4 samples were analyzed for EPA 903.1 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA New Compliance Wells
Pace Project No.: 60456685

Method: **EPA 904.0**
Description: 904.0 Radium 228
Client: Evergy Kansas Central, Inc.
Date: July 31, 2024

General Information:
4 samples were analyzed for EPA 904.0 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA New Compliance Wells
Pace Project No.: 60456685

Method: **Total Radium Calculation**
Description: Total Radium 228+226
Client: Evergy Kansas Central, Inc.
Date: July 31, 2024

General Information:
4 samples were analyzed for Total Radium Calculation by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA New Compliance Wells
Pace Project No.: 60456685

Method: **SM 2540C**
Description: 2540C Total Dissolved Solids
Client: Evergy Kansas Central, Inc.
Date: July 31, 2024

General Information:
4 samples were analyzed for SM 2540C by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

QC Batch: 901645

D6: The precision between the sample and sample duplicate exceeded laboratory control limits.

- DUP (Lab ID: 3569183)
  - Total Dissolved Solids

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA New Compliance Wells
Pace Project No.: 60456685

Method: **SM 4500-H+B**
Description: 4500H+ pH, Electrometric
Client: Evergy Kansas Central, Inc.
Date: July 31, 2024

General Information:
4 samples were analyzed for SM 4500-H+B by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

H6: Analysis initiated outside of the 15 minute EPA required holding time.
- MW-11A-071124 (Lab ID: 60456685001)
- MW-12-071124 (Lab ID: 60456685002)
- MW-13-071124 (Lab ID: 60456685003)
- MW-14-071124 (Lab ID: 60456685004)

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA New Compliance Wells
Pace Project No.: 60456685

Method: **EPA 300.0**
Description: 300.0 IC Anions 28 Days
Client: Evergy Kansas Central, Inc.
Date: July 31, 2024

General Information:
4 samples were analyzed for EPA 300.0 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 901637

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60456684003,60456694003

R1: RPD value was outside control limits.

- MSD (Lab ID: 3569159)
  - Chloride
  - Fluoride

Additional Comments:

Analyte Comments:

QC Batch: 901637

N2: The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

- BLANK (Lab ID: 3569156)
  - Fluoride
- LCS (Lab ID: 3569157)
  - Fluoride
- MS (Lab ID: 3569158)
  - Fluoride
- MS (Lab ID: 3569160)
  - Fluoride
- MSD (Lab ID: 3569159)
  - Fluoride
- MW-11A-071124 (Lab ID: 60456685001)
  - Fluoride
- MW-12-071124 (Lab ID: 60456685002)
  - Fluoride

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PROJECT NARRATIVE

Project: TEC BASA New Compliance Wells
Pace Project No.: 60456685

Method: **EPA 300.0**
Description: 300.0 IC Anions 28 Days
Client: Evergy Kansas Central, Inc.
Date: July 31, 2024

Analyte Comments:

QC Batch: 901637

N2: The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

- MW-13-071124 (Lab ID: 60456685003)
  - Fluoride
- MW-14-071124 (Lab ID: 60456685004)
  - Fluoride

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: TEC BASA New Compliance Wells
Pace Project No.: 60456685

Sample: MW-11A-071124 **Lab ID: 60456685001** Collected: 07/11/24 11:00 Received: 07/12/24 12:50 Matrix: Water
Comments: • The sampler's name and signature were not listed on the COC.

Parameters	Results	Units	Report Limit	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, Total Recoverable	**0.051**	mg/L	0.0050	1	07/15/24 10:13	07/17/24 14:11	7440-39-3	
Beryllium, Total Recoverable	**<0.0010**	mg/L	0.0010	1	07/15/24 10:13	07/17/24 14:11	7440-41-7	
Boron, Total Recoverable	**0.40**	mg/L	0.10	1	07/15/24 10:13	07/17/24 14:11	7440-42-8	
Calcium, Total Recoverable	**238**	mg/L	0.20	1	07/15/24 10:13	07/17/24 14:11	7440-70-2	
Chromium, Total Recoverable	**<0.0050**	mg/L	0.0050	1	07/15/24 10:13	07/17/24 14:11	7440-47-3	
Lead, Total Recoverable	**<0.010**	mg/L	0.010	1	07/15/24 10:13	07/17/24 14:11	7439-92-1	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
	Pace Analytical Services - Kansas City							
Lithium, Total Recoverable	**0.039**	mg/L	0.010	1	07/16/24 08:47	07/25/24 15:02	7439-93-2	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
	Pace Analytical Services - Kansas City							
Antimony, Total Recoverable	**<0.0010**	mg/L	0.0010	1	07/15/24 14:20	07/16/24 15:14	7440-36-0	
Arsenic, Total Recoverable	**0.0027**	mg/L	0.0010	1	07/15/24 14:20	07/16/24 15:14	7440-38-2	
Cadmium, Total Recoverable	**<0.00050**	mg/L	0.00050	1	07/15/24 14:20	07/16/24 15:14	7440-43-9	
Cobalt, Total Recoverable	**0.011**	mg/L	0.0010	1	07/15/24 14:20	07/16/24 15:14	7440-48-4	
Molybdenum, Total Recoverable	**0.0026**	mg/L	0.0010	1	07/15/24 14:20	07/16/24 15:14	7439-98-7	
Selenium, Total Recoverable	**<0.0010**	mg/L	0.0010	1	07/15/24 14:20	07/16/24 15:14	7782-49-2	
Thallium, Total Recoverable	**<0.0010**	mg/L	0.0010	1	07/15/24 14:20	07/16/24 15:14	7440-28-0	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
	Pace Analytical Services - Kansas City							
Mercury	**<0.20**	ug/L	0.20	1	07/19/24 16:11	07/22/24 12:59	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
	Pace Analytical Services - Kansas City							
Total Dissolved Solids	**1450**	mg/L	13.3	1		07/15/24 11:23		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
	Pace Analytical Services - Kansas City							
pH at 25 Degrees C	**7.4**	Std. Units	0.10	1		07/16/24 17:05		H6
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
	Pace Analytical Services - Kansas City							
Chloride	**384**	mg/L	50.0	50		07/15/24 20:40	16887-00-6	
Fluoride	**<0.20**	mg/L	0.20	1		07/15/24 20:26	16984-48-8	N2
Sulfate	**381**	mg/L	50.0	50		07/15/24 20:40	14808-79-8	

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ANALYTICAL RESULTS

Project: TEC BASA New Compliance Wells
Pace Project No.: 60456685

Sample: MW-12-071124 **Lab ID: 60456685002** Collected: 07/11/24 10:45 Received: 07/12/24 12:50 Matrix: Water

Parameters	Results	Units	Report Limit	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, Total Recoverable	**0.11**	mg/L	0.0050	1	07/15/24 10:13	07/17/24 14:12	7440-39-3	
Beryllium, Total Recoverable	**<0.0010**	mg/L	0.0010	1	07/15/24 10:13	07/17/24 14:12	7440-41-7	
Boron, Total Recoverable	**0.43**	mg/L	0.10	1	07/15/24 10:13	07/17/24 14:12	7440-42-8	
Calcium, Total Recoverable	**222**	mg/L	0.20	1	07/15/24 10:13	07/17/24 14:12	7440-70-2	
Chromium, Total Recoverable	**0.0066**	mg/L	0.0050	1	07/15/24 10:13	07/17/24 14:12	7440-47-3	
Lead, Total Recoverable	**<0.010**	mg/L	0.010	1	07/15/24 10:13	07/17/24 14:12	7439-92-1	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Kansas City							
Lithium, Total Recoverable	**0.041**	mg/L	0.010	1	07/16/24 08:47	07/25/24 15:04	7439-93-2	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City							
Antimony, Total Recoverable	**<0.0010**	mg/L	0.0010	1	07/15/24 14:20	07/16/24 15:20	7440-36-0	
Arsenic, Total Recoverable	**0.010**	mg/L	0.0010	1	07/15/24 14:20	07/16/24 15:20	7440-38-2	
Cadmium, Total Recoverable	**0.00054**	mg/L	0.00050	1	07/15/24 14:20	07/16/24 15:20	7440-43-9	
Cobalt, Total Recoverable	**0.030**	mg/L	0.0010	1	07/15/24 14:20	07/16/24 15:20	7440-48-4	
Molybdenum, Total Recoverable	**0.0052**	mg/L	0.0010	1	07/15/24 14:20	07/16/24 15:20	7439-98-7	
Selenium, Total Recoverable	**<0.0010**	mg/L	0.0010	1	07/15/24 14:20	07/16/24 15:20	7782-49-2	
Thallium, Total Recoverable	**<0.0010**	mg/L	0.0010	1	07/15/24 14:20	07/16/24 15:20	7440-28-0	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Kansas City							
Mercury	**<0.20**	ug/L	0.20	1	07/19/24 16:11	07/22/24 13:03	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City							
Total Dissolved Solids	**1340**	mg/L	40.0	1		07/16/24 11:21		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Kansas City							
pH at 25 Degrees C	**7.1**	Std. Units	0.10	1		07/16/24 17:03		H6
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City							
Chloride	**320**	mg/L	50.0	50		07/15/24 21:08	16887-00-6	
Fluoride	**<0.20**	mg/L	0.20	1		07/15/24 20:54	16984-48-8	N2
Sulfate	**312**	mg/L	50.0	50		07/15/24 21:08	14808-79-8	

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ANALYTICAL RESULTS

Project: TEC BASA New Compliance Wells
Pace Project No.: 60456685

Sample: MW-13-071124 **Lab ID: 60456685003** Collected: 07/11/24 12:00 Received: 07/12/24 12:50 Matrix: Water

Parameters	Results	Units	Report Limit	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, Total Recoverable	**0.11**	mg/L	0.0050	1	07/15/24 10:13	07/17/24 14:19	7440-39-3	
Beryllium, Total Recoverable	**<0.0010**	mg/L	0.0010	1	07/15/24 10:13	07/17/24 14:19	7440-41-7	
Boron, Total Recoverable	**1.3**	mg/L	0.10	1	07/15/24 10:13	07/17/24 14:19	7440-42-8	
Calcium, Total Recoverable	**207**	mg/L	0.20	1	07/15/24 10:13	07/17/24 14:19	7440-70-2	
Chromium, Total Recoverable	**0.0090**	mg/L	0.0050	1	07/15/24 10:13	07/17/24 14:19	7440-47-3	
Lead, Total Recoverable	**<0.010**	mg/L	0.010	1	07/15/24 10:13	07/17/24 14:19	7439-92-1	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Kansas City							
Lithium, Total Recoverable	**0.012**	mg/L	0.010	1	07/16/24 08:47	07/25/24 15:06	7439-93-2	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City							
Antimony, Total Recoverable	**<0.0010**	mg/L	0.0010	1	07/15/24 14:20	07/16/24 15:23	7440-36-0	
Arsenic, Total Recoverable	**0.026**	mg/L	0.0010	1	07/15/24 14:20	07/16/24 15:23	7440-38-2	
Cadmium, Total Recoverable	**<0.00050**	mg/L	0.00050	1	07/15/24 14:20	07/16/24 15:23	7440-43-9	
Cobalt, Total Recoverable	**0.0029**	mg/L	0.0010	1	07/15/24 14:20	07/16/24 15:23	7440-48-4	
Molybdenum, Total Recoverable	**0.057**	mg/L	0.0010	1	07/15/24 14:20	07/16/24 15:23	7439-98-7	
Selenium, Total Recoverable	**0.0014**	mg/L	0.0010	1	07/15/24 14:20	07/16/24 15:23	7782-49-2	
Thallium, Total Recoverable	**<0.0010**	mg/L	0.0010	1	07/15/24 14:20	07/16/24 15:23	7440-28-0	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Kansas City							
Mercury	**<0.20**	ug/L	0.20	1	07/19/24 16:11	07/22/24 13:05	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City							
Total Dissolved Solids	**1260**	mg/L	20.0	1		07/16/24 11:21		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Kansas City							
pH at 25 Degrees C	**8.4**	Std. Units	0.10	1		07/16/24 17:11		H6
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City							
Chloride	**174**	mg/L	50.0	50		07/15/24 22:03	16887-00-6	
Fluoride	**<0.20**	mg/L	0.20	1		07/15/24 21:21	16984-48-8	N2
Sulfate	**670**	mg/L	50.0	50		07/15/24 22:03	14808-79-8	

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ANALYTICAL RESULTS

Project: TEC BASA New Compliance Wells
Pace Project No.: 60456685

Sample: MW-14-071124 **Lab ID: 60456685004** Collected: 07/11/24 12:10 Received: 07/12/24 12:50 Matrix: Water

Parameters	Results	Units	Report Limit	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, Total Recoverable	**0.030**	mg/L	0.0050	1	07/15/24 10:13	07/17/24 14:21	7440-39-3	
Beryllium, Total Recoverable	**<0.0010**	mg/L	0.0010	1	07/15/24 10:13	07/17/24 14:21	7440-41-7	
Boron, Total Recoverable	**0.98**	mg/L	0.10	1	07/15/24 10:13	07/17/24 14:21	7440-42-8	
Calcium, Total Recoverable	**194**	mg/L	0.20	1	07/15/24 10:13	07/17/24 14:21	7440-70-2	
Chromium, Total Recoverable	**<0.0050**	mg/L	0.0050	1	07/15/24 10:13	07/17/24 14:21	7440-47-3	
Lead, Total Recoverable	**<0.010**	mg/L	0.010	1	07/15/24 10:13	07/17/24 14:21	7439-92-1	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Kansas City							
Lithium, Total Recoverable	**0.025**	mg/L	0.010	1	07/16/24 08:47	07/25/24 15:07	7439-93-2	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City							
Antimony, Total Recoverable	**<0.0010**	mg/L	0.0010	1	07/15/24 14:20	07/16/24 15:26	7440-36-0	
Arsenic, Total Recoverable	**0.0013**	mg/L	0.0010	1	07/15/24 14:20	07/16/24 15:26	7440-38-2	
Cadmium, Total Recoverable	**<0.00050**	mg/L	0.00050	1	07/15/24 14:20	07/16/24 15:26	7440-43-9	
Cobalt, Total Recoverable	**<0.0010**	mg/L	0.0010	1	07/15/24 14:20	07/16/24 15:26	7440-48-4	
Molybdenum, Total Recoverable	**0.027**	mg/L	0.0010	1	07/15/24 14:20	07/16/24 15:26	7439-98-7	
Selenium, Total Recoverable	**<0.0010**	mg/L	0.0010	1	07/15/24 14:20	07/16/24 15:26	7782-49-2	
Thallium, Total Recoverable	**<0.0010**	mg/L	0.0010	1	07/15/24 14:20	07/16/24 15:26	7440-28-0	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Kansas City							
Mercury	**<0.20**	ug/L	0.20	1	07/19/24 16:11	07/22/24 13:08	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City							
Total Dissolved Solids	**1150**	mg/L	20.0	1		07/16/24 11:22		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Kansas City							
pH at 25 Degrees C	**7.4**	Std. Units	0.10	1		07/16/24 17:14		H6
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City							
Chloride	**205**	mg/L	50.0	50		07/15/24 22:31	16887-00-6	
Fluoride	**<0.20**	mg/L	0.20	1		07/15/24 22:17	16984-48-8	N2
Sulfate	**523**	mg/L	50.0	50		07/15/24 22:31	14808-79-8	

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QUALITY CONTROL DATA

Project: TEC BASA New Compliance Wells
Pace Project No.: 60456685

QC Batch: 902422 | Analysis Method: EPA 245.1
QC Batch Method: EPA 245.1 | Analysis Description: 245.1 Mercury
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60456685001, 60456685002, 60456685003, 60456685004

METHOD BLANK: 3571945 Matrix: Water
Associated Lab Samples: 60456685001, 60456685002, 60456685003, 60456685004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	<0.20	0.20	07/22/24 12:24	

LABORATORY CONTROL SAMPLE: 3571946

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.7	93	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3571947 3571948

Parameter	Units	60456657003 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	4.6	4.8	92	96	70-130	4	20	

MATRIX SPIKE SAMPLE: 3571949

Parameter	Units	60456685001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	<0.20	5	4.3	87	70-130	

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QUALITY CONTROL DATA

Project: TEC BASA New Compliance Wells
Pace Project No.: 60456685

QC Batch: 901641
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: 60456685001, 60456685002, 60456685003, 60456685004

METHOD BLANK: 3569166 Matrix: Water
Associated Lab Samples: 60456685001, 60456685002, 60456685003, 60456685004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Barium	mg/L	<0.0050	0.0050	07/17/24 13:38	
Beryllium	mg/L	<0.0010	0.0010	07/17/24 13:38	
Boron	mg/L	<0.10	0.10	07/17/24 13:38	
Calcium	mg/L	<0.20	0.20	07/17/24 13:38	
Chromium	mg/L	<0.0050	0.0050	07/17/24 13:38	
Lead	mg/L	<0.010	0.010	07/17/24 13:38	

LABORATORY CONTROL SAMPLE: 3569167

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	mg/L	1	1.0	101	85-115	
Beryllium	mg/L	1	1.0	101	85-115	
Boron	mg/L	1	0.96	96	85-115	
Calcium	mg/L	10	10.4	104	85-115	
Chromium	mg/L	1	1.0	103	85-115	
Lead	mg/L	1	1.1	106	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3569168 3569169

Parameter	Units	60456669001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	mg/L	276 ug/L	1	1	1.3	1.2	99	97	70-130	2	20	
Beryllium	mg/L	ND	1	1	1.0	1.0	100	100	70-130	0	20	
Boron	mg/L	218 ug/L	1	1	1.2	1.2	96	94	70-130	2	20	
Calcium	mg/L	79700 ug/L	10	10	90.3	88.2	106	85	70-130	2	20	
Chromium	mg/L	6.9 ug/L	1	1	1.0	0.99	99	99	70-130	0	20	
Lead	mg/L	0.026	1	1	1.0	1.0	100	100	70-130	0	20	

MATRIX SPIKE SAMPLE: 3569170

Parameter	Units	60456684004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Barium	mg/L	0.27	1	1.2	96	70-130	
Beryllium	mg/L	<0.0010	1	0.97	97	70-130	
Boron	mg/L	<0.10	1	1.0	93	70-130	
Calcium	mg/L	148	10	160	121	70-130	

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QUALITY CONTROL DATA

Project: TEC BASA New Compliance Wells
Pace Project No.: 60456685

MATRIX SPIKE SAMPLE: 3569170

Parameter	Units	60456684004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chromium	mg/L	<0.0050	1	0.95	95	70-130	
Lead	mg/L	<0.010	1	0.96	96	70-130	

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QUALITY CONTROL DATA

Project: TEC BASA New Compliance Wells
Pace Project No.: 60456685

QC Batch: 901690
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: 60456685001, 60456685002, 60456685003, 60456685004

METHOD BLANK: 3569356 Matrix: Water
Associated Lab Samples: 60456685001, 60456685002, 60456685003, 60456685004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	mg/L	<0.0010	0.0010	07/16/24 14:43	
Arsenic	mg/L	<0.0010	0.0010	07/16/24 14:43	
Cadmium	mg/L	<0.00050	0.00050	07/16/24 14:43	
Cobalt	mg/L	<0.0010	0.0010	07/16/24 14:43	
Molybdenum	mg/L	<0.0010	0.0010	07/16/24 14:43	
Selenium	mg/L	<0.0010	0.0010	07/16/24 14:43	
Thallium	mg/L	<0.0010	0.0010	07/16/24 14:43	

LABORATORY CONTROL SAMPLE: 3569357

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.04	0.039	96	85-115	
Arsenic	mg/L	0.04	0.039	96	85-115	
Cadmium	mg/L	0.04	0.040	99	85-115	
Cobalt	mg/L	0.04	0.040	100	85-115	
Molybdenum	mg/L	0.04	0.039	98	85-115	
Selenium	mg/L	0.04	0.040	99	85-115	
Thallium	mg/L	0.04	0.042	105	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3569358 3569359

Parameter	Units	60456684002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	<0.0010	0.04	0.04	0.039	0.036	96	89	70-130	7	20	
Arsenic	mg/L	0.0018	0.04	0.04	0.041	0.038	98	91	70-130	8	20	
Cadmium	mg/L	<0.00050	0.04	0.04	0.038	0.035	94	88	70-130	7	20	
Cobalt	mg/L	<0.0010	0.04	0.04	0.038	0.036	93	87	70-130	6	20	
Molybdenum	mg/L	0.0066	0.04	0.04	0.049	0.045	107	97	70-130	8	20	
Selenium	mg/L	<0.0010	0.04	0.04	0.039	0.036	97	88	70-130	9	20	
Thallium	mg/L	<0.0010	0.04	0.04	0.039	0.036	98	90	70-130	8	20	

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QUALITY CONTROL DATA

Project: TEC BASA New Compliance Wells
Pace Project No.: 60456685

QC Batch: 901744
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60456685001, 60456685002, 60456685003, 60456685004

METHOD BLANK: 3569539 Matrix: Water
Associated Lab Samples: 60456685001, 60456685002, 60456685003, 60456685004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lithium	mg/L	<0.010	0.010	07/25/24 14:41	

LABORATORY CONTROL SAMPLE: 3569540

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lithium	mg/L	1	1.0	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3569541 3569542

Parameter	Units	60456684001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lithium	mg/L	0.037	1	1	1.1	1.1	104	105	75-125	1	20	

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QUALITY CONTROL DATA

Project: TEC BASA New Compliance Wells
Pace Project No.: 60456685

QC Batch: 901645
QC Batch Method: SM 2540C
Analysis Method: SM 2540C
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60456685001

METHOD BLANK: 3569181 Matrix: Water
Associated Lab Samples: 60456685001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<5.0	5.0	07/15/24 11:19	

LABORATORY CONTROL SAMPLE: 3569182

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	1000	912	91	80-120	

SAMPLE DUPLICATE: 3569183

Parameter	Units	60456516001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	133	112	17	10	D6

SAMPLE DUPLICATE: 3569185

Parameter	Units	60456627004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	2590	2470	5	10	

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QUALITY CONTROL DATA

Project: TEC BASA New Compliance Wells
Pace Project No.: 60456685

QC Batch: 901701
QC Batch Method: SM 2540C
Analysis Method: SM 2540C
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60456685002, 60456685003, 60456685004

METHOD BLANK: 3569418 Matrix: Water
Associated Lab Samples: 60456685002, 60456685003, 60456685004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<5.0	5.0	07/16/24 11:21	

LABORATORY CONTROL SAMPLE: 3569419

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	1000	906	91	80-120	

SAMPLE DUPLICATE: 3569421

Parameter	Units	60456732007 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1200	1190	1	10	

SAMPLE DUPLICATE: 3569422

Parameter	Units	60456685002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1340	1260	6	10	

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QUALITY CONTROL DATA

Project: TEC BASA New Compliance Wells
Pace Project No.: 60456685

QC Batch: 901829
QC Batch Method: SM 4500-H+B
Analysis Method: SM 4500-H+B
Analysis Description: 4500H+B pH
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60456685001, 60456685002, 60456685003, 60456685004

SAMPLE DUPLICATE: 3569776

Parameter	Units	60456507003 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.9	8.0	2	5	H6

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QUALITY CONTROL DATA

Project: TEC BASA New Compliance Wells
Pace Project No.: 60456685

QC Batch: 901637
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: 60456685001, 60456685002, 60456685003, 60456685004

METHOD BLANK: 3569156 Matrix: Water
Associated Lab Samples: 60456685001, 60456685002, 60456685003, 60456685004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<1.0	1.0	07/15/24 09:08	
Fluoride	mg/L	<0.20	0.20	07/15/24 09:08	N2
Sulfate	mg/L	<1.0	1.0	07/15/24 09:08	

LABORATORY CONTROL SAMPLE: 3569157

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.8	97	90-110	
Fluoride	mg/L	2.5	2.4	97	90-110	N2
Sulfate	mg/L	5	4.9	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3569158 3569159

Parameter	Units	60456694003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	50.4	250	250	306	261	102	84	80-120	16	15	R1
Fluoride	mg/L	ND	125	125	126	105	100	84	80-120	18	15	N2,R1
Sulfate	mg/L	91.5	250	250	386	341	118	100	80-120	12	15	

MATRIX SPIKE SAMPLE: 3569160

Parameter	Units	60456684003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	125	250	358	93	80-120	
Fluoride	mg/L	<0.20	2.5	2.5	102	80-120	N2
Sulfate	mg/L	174	250	442	107	80-120	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: TEC BASA New Compliance Wells
Pace Project No.: 60456685

Sample: MW-11A-071124 **Lab ID: 60456685001** Collected: 07/11/24 11:00 Received: 07/12/24 12:50 Matrix: Water
PWS: Site ID: Sample Type:

Comments: • The sampler's name and signature were not listed on the COC.

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.437 ± 0.784 (1.37) C:NA T:88%**	pCi/L	07/24/24 14:56	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**2.37 ± 0.647 (0.721) C:89% T:89%**	pCi/L	07/30/24 11:31	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**2.81 ± 1.43 (2.09)**	pCi/L	07/31/24 11:26	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: TEC BASA New Compliance Wells
Pace Project No.: 60456685

Sample: MW-12-071124 **Lab ID: 60456685002** Collected: 07/11/24 10:45 Received: 07/12/24 12:50 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	**0.508 ± 0.654 (1.09) C:NA T:91%**	pCi/L	07/24/24 15:41	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**2.48 ± 0.663 (0.753) C:95% T:88%**	pCi/L	07/30/24 11:31	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**2.99 ± 1.32 (1.84)**	pCi/L	07/31/24 11:26	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: TEC BASA New Compliance Wells
Pace Project No.: 60456685

Sample: MW-13-071124 **Lab ID: 60456685003** Collected: 07/11/24 12:00 Received: 07/12/24 12:50 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 ± 0.786 (1.52) C:NA T:86%**	pCi/L	07/24/24 14:56	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.402 ± 0.322 (0.641) C:89% T:90%**	pCi/L	07/30/24 11:32	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.402 ± 1.11 (2.16)**	pCi/L	07/31/24 11:26	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: TEC BASA New Compliance Wells
Pace Project No.: 60456685

Sample: MW-14-071124 **Lab ID: 60456685004** Collected: 07/11/24 12:10 Received: 07/12/24 12:50 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	**0.0754 ± 0.739 (1.42) C:NA T:89%**	pCi/L	07/24/24 15:11	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.794 ± 0.348 (0.551) C:86% T:91%**	pCi/L	07/30/24 11:32	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.869 ± 1.09 (1.97)**	pCi/L	07/31/24 11:26	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: TEC BASA New Compliance Wells
Pace Project No.: 60456685

QC Batch: 683164
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: 60456685001, 60456685002, 60456685003, 60456685004

METHOD BLANK: 3325933 Matrix: Water
Associated Lab Samples: 60456685001, 60456685002, 60456685003, 60456685004

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	1.00 ± 0.375 (0.553) C:97% T:91%	pCi/L	07/30/24 11:31	

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.

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QUALITY CONTROL - RADIOCHEMISTRY

Project: TEC BASA New Compliance Wells
Pace Project No.: 60456685

QC Batch: 683162
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: 60456685001, 60456685002, 60456685003, 60456685004

METHOD BLANK: 3325931 Matrix: Water
Associated Lab Samples: 60456685001, 60456685002, 60456685003, 60456685004

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.106 ± 0.254 (0.492) C:NA T:93%	pCi/L	07/24/24 14:56	

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

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(913)599-5665

QUALIFIERS

Project: TEC BASA New Compliance Wells
Pace Project No.: 60456685

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.
H6	Analysis initiated outside of the 15 minute EPA required holding time.
N2	The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.
R1	RPD value was outside control limits.

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Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: TEC BASA New Compliance Wells
Pace Project No.: 60456685

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60456685001	**MW-11A-071124**	EPA 200.7	901641	EPA 200.7	901667
60456685002	**MW-12-071124**	EPA 200.7	901641	EPA 200.7	901667
60456685003	**MW-13-071124**	EPA 200.7	901641	EPA 200.7	901667
60456685004	**MW-14-071124**	EPA 200.7	901641	EPA 200.7	901667
60456685001	**MW-11A-071124**	EPA 3010	901744	EPA 6010	901816
60456685002	**MW-12-071124**	EPA 3010	901744	EPA 6010	901816
60456685003	**MW-13-071124**	EPA 3010	901744	EPA 6010	901816
60456685004	**MW-14-071124**	EPA 3010	901744	EPA 6010	901816
60456685001	**MW-11A-071124**	EPA 200.8	901690	EPA 200.8	901738
60456685002	**MW-12-071124**	EPA 200.8	901690	EPA 200.8	901738
60456685003	**MW-13-071124**	EPA 200.8	901690	EPA 200.8	901738
60456685004	**MW-14-071124**	EPA 200.8	901690	EPA 200.8	901738
60456685001	**MW-11A-071124**	EPA 245.1	902422	EPA 245.1	902446
60456685002	**MW-12-071124**	EPA 245.1	902422	EPA 245.1	902446
60456685003	**MW-13-071124**	EPA 245.1	902422	EPA 245.1	902446
60456685004	**MW-14-071124**	EPA 245.1	902422	EPA 245.1	902446
60456685001	**MW-11A-071124**	EPA 903.1	683162		
60456685002	**MW-12-071124**	EPA 903.1	683162		
60456685003	**MW-13-071124**	EPA 903.1	683162		
60456685004	**MW-14-071124**	EPA 903.1	683162		
60456685001	**MW-11A-071124**	EPA 904.0	683164		
60456685002	**MW-12-071124**	EPA 904.0	683164		
60456685003	**MW-13-071124**	EPA 904.0	683164		
60456685004	**MW-14-071124**	EPA 904.0	683164		
60456685001	**MW-11A-071124**	Total Radium Calculation	686195		
60456685002	**MW-12-071124**	Total Radium Calculation	686195		
60456685003	**MW-13-071124**	Total Radium Calculation	686195		
60456685004	**MW-14-071124**	Total Radium Calculation	686195		
60456685001	**MW-11A-071124**	SM 2540C	901645		
60456685002	**MW-12-071124**	SM 2540C	901701		
60456685003	**MW-13-071124**	SM 2540C	901701		
60456685004	**MW-14-071124**	SM 2540C	901701		
60456685001	**MW-11A-071124**	SM 4500-H+B	901829		
60456685002	**MW-12-071124**	SM 4500-H+B	901829		
60456685003	**MW-13-071124**	SM 4500-H+B	901829		
60456685004	**MW-14-071124**	SM 4500-H+B	901829		
60456685001	**MW-11A-071124**	EPA 300.0	901637		
60456685002	**MW-12-071124**	EPA 300.0	901637		
60456685003	**MW-13-071124**	EPA 300.0	901637		
60456685004	**MW-14-071124**	EPA 300.0	901637		

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Pace	DC#_Title: ENV-FRM-LENE-0009_Sample C	WO# : 60456685
	Revision: 2	Effective Date: 01/12/2022

60456685

Client Name: Evergy ICS Central

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: T299 **Type of Ice:** (Wet) Blue None

Cooler Temperature (°C): **As-read** 5.8 **Corr. Factor** 0.0 **Corrected** 5.8

Date and initials of person examining contents: MM 7-12-24

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

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

60456685

Scan QR Code for instructions

Company Name:	Evergy Kansas Central, Inc.	Contact/Report To:	Jake Humphrey
Street Address:	818 S Kansas Avenue, Topeka, KS 66612	Phone #:	(913)634-0605
		E-Mail:	jake.humphrey@evergy.com
		Cc E-Mail:	skaney@haleyaldrich.com
Customer Project #:			
Project Name:	TEC BASA New Compliance Wells	Invoice To:	Tecumseh Center
		Invoice E-Mail:	evergyap@onlinecapturecenter.com
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	WSTR-2000018660
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [X] CT [ ] ET

County / State origin of sample(s): Kansas

Data Deliverables:
[ ] Level II [ ] Level III [ ] Level IV
[ ] EQUIS
[ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [ ] Yes [X] 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 [X] 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 **: 3 2 3 3 1 1
Identify Container Preservative Type***: 3 1 1 1 3 3
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	200.7 Metals, Total; 200.8 MET ICPMS; 245.1 Mercury	2540C Total Dissolved Solids	300.0 IC Anions 28 Days	4500H+ pH, Electrometric	Radium 226	Radium 228, combined, QC SHEETS	Sample Comment
MW-11A-071124	GW	Grab	-	-	7/11/2024	1100	6	-	-	X	X	X	X	X	X	
MW-12-071124	GW	Grab	-	-	7/11/2024	1045	6	-	-	X	X	X	X	X	X	
MW-13-071124	GW	Grab	-	-	7/11/2024	1200	6	-	-	X	X	X	X	X	X	
MW-14-071124	GW	Grab	-	-	7/11/2024	1210	6	-	-	X	X	X	X	X	X	

**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: Alice Spiller
AcctNum / Client ID:
Table #:
Profile / Template: 9655
Prelog / Bottle Ord. ID: EZ 3134243

Preservation non-conformance identified for sample.

Additional Instructions from Pace®:

Collected By: (Printed Name) Britta Coleman
Signature: Britta Coleman

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)	On Ice:
	T299	0.0	3.4	3.4	

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
Britta Coleman / SCS	07/12/24 / 1200	JAPAC	7/12/24 1250	
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 1

Page 13 of 13

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_Sample Container Count
Revision: 3 | Effective Date: 12/22/2021 | Issued by: Lenexa

Client: Evergy KS Central Profile/EZ # EZ3134243

Site: New Compliance Wells 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	BP3C	BP3Z	WPDU	ZPLC	Other		
1	WT																			1	2	2	1									
2	1																			1	2	2	1									
3	1																			1	2	2	1									
4	1																			1	2	2	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	
BP1C	1L NAOH plastic
BP1N	1L HNO3 plastic
BP1S	1L H2SO4 plastic
BP1U	1L unpreserved plastic
BP1Z	1L NaOH, Zn Acetate
BP2C	500mL NAOH plastic
BP2N	500mL HNO3 plastic
BP2S	500mL H2SO4 plastic
BP2U	500mL unpreserved plastic
BP2Z	500mL NaOH, Zn Acetate
BP3C	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 Numbe

WO#: 60456685

PM: AS Due Date: 07/26/24

CLIENT: WESTAR ENRGY

Internal Transfer Chain of Custody

☐ Rush Multiplier____X
☐ Samples Pre-Logged into eCOC

State Of Origin: KS
Cert. Needed: ☒ Yes ☐ No
Owner Received Date: 7/12/2024 Results Requested By: 7/26/2024

Workorder: 60456685 Workorder Name: TEC BASA New Compliance Wells

Report To	Subcontract To
Alice Spiller Pace Analytical Kansas 9608 Loiret Blvd. Lenexa, KS 66219 Phone (913)599-5665	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	QC Sheets	Radium 226	Radium 228 & combined	LAB USE ONLY
1	MW-11A-071124	PS	7/11/2024 11:00	60456685001	Water	2	X	X	X	001
2	MW-12-071124	PS	7/11/2024 10:45	60456685002	Water	2	X	X	X	002
3	MW-13-071124	PS	7/11/2024 12:00	60456685003	Water	2	X	X	X	003
4	MW-14-071124	PS	7/11/2024 12:10	60456685004	Water	2	X	X	X	004
5										

Transfers	Released By	Date/Time	Received By	Date/Time
1			[signature]	7/16/24 1000
2				
3				

Comments

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# : 30700510
30700510

DC#_Title: ENV-FRM-GBUR-0088 v07_Sample Condition Upon Receipt-Greensburg

Effective Date: 01/04/2024

WO# : 30700510

PM: MAR Due Date: 08/06/24

CLIENT: PACE_60_LEKS

Client Name: pace-KS

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other

Tracking Number: 714623817673

Initial / Date

Examined By: PS 7/16/24

Labeled By: PS 7/16/24

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

Comments:	Yes	No	NA	pH paper Lot# 10072931 / 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.
-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 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: 7/16/24 / Survey Meter SN: 399823

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

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test:	Ra-226
Analyst:	DMC
Date:	7/18/2024
Batch ID:	80325
Matrix:	DW

Method Blank Assessment	
MB Sample ID	3325931
MB concentration:	0.106
M/B Counting Uncertainty:	0.254
MB MDC:	0.492
MB Numerical Performance Indicator:	0.82
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS80325	**LCSD80325**
Count Date:	7/24/2024	7/24/2024
Spike I.D.:	23-063	23-063
Spike Concentration (pCi/mL):	32.297	32.297
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.658	0.653
Target Conc. (pCi/L, g, F):	4.909	4.945
Uncertainty (Calculated):	0.231	0.232
Result (pCi/L, g, F):	3.763	4.013
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.966	1.042
Numerical Performance Indicator:	-2.26	-1.71
Percent Recovery:	76.65%	81.16%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	133%	133%
Lower % Recovery Limits:	73%	73%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS80325	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD80325	
Sample Result (pCi/L, g, F):	3.763	
Sample Result Counting Uncertainty (pCi/L, g, F):	0.966	
Sample Duplicate Result (pCi/L, g, F):	4.013	
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	1.042	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	-0.346	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	5.71%	
Duplicate Status vs Numerical Indicator:	N/A	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	32%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the RL.

Comments:

CLM 7/24/24 LL 07 25 24

Arizona DHES requires qualification for any AZ DW samples reported where the QC does not meet the recommended limits of the Manual for the Certification of Labs Analyzing Drinking Waters, 5th Edition , section 7.7 of Chapter VI.

Quality Control Sample Performance Assessment

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Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-228
Analyst: ZPC
Date: 7/23/2024
Worklist: 80326
Matrix: WT

Method Blank Assessment	
MB Sample ID	3325933
MB concentration:	1.005
M/B 2 Sigma CSU:	0.375
MB MDC:	0.553
MB Numerical Performance Indicator:	5.25
MB Status vs Numerical Indicator:	Fail*
MB Status vs. MDC:	Fail*

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS80326	LCSD80326
Count Date:	7/30/2024	7/30/2024
Spike I.D.:	23-043	23-043
Decay Corrected Spike Concentration (pCi/mL):	35.836	35.836
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.819	0.817
Target Conc. (pCi/L, g, F):	4.378	4.385
Uncertainty (Calculated):	0.215	0.215
Result (pCi/L, g, F):	4.707	5.741
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	1.012	1.193
Numerical Performance Indicator:	0.62	2.19
Percent Recovery:	107.52%	130.92%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS80326	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD80326	
Sample Result (pCi/L, g, F):	4.707	
Sample Result 2 Sigma CSU (pCi/L, g, F):	1.012	
Sample Duplicate Result (pCi/L, g, F):	5.741	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.193	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	-1.295	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	19.62%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	36%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:
~~*If the lowest activity sample in this batch is greater than ten times the blank value, the blank is acceptable; otherwise this batch must be re-prepped.~~ OK - MB RL = 1.0 pCi/L

7/31/24

7/31/24

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

December 03, 2024

Jake Humphrey
Evergy, Inc.
818 S Kansas Avenue
Topeka, KS 66612

RE: Project: TEC BASA New Compliance Wells-Revised Report
Pace Project No.: 60460527

Dear Jake Humphrey:

Enclosed are the analytical results for sample(s) received by the laboratory on September 13, 2024. 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 - Salina

REVISED to include beryllium and lead data

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

Sincerely,

Alice Spiller

Alice Spiller
alice.spiller@pacelabs.com
(913)599-5665
PM Lab Management

Enclosures

cc: Heath Horyna, Evergy, Inc.
Samantha Kaney, Haley & Aldrich
Melanie Satanek, Haley & Aldrich, Inc.
Adriana Sosa, Haley & Aldrich, Inc.
Nick Williams, Haley Aldrich

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CERTIFICATIONS

Project: TEC BASA New Compliance Wells-Revised Report
Pace Project No.: 60460527

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

Pace Analytical Services Salina
528 N 9th Street, Salina, KS 67401
Kansas/NELAP Certification: # E-10146
Oklahoma Certification: 2023-074
Texas Certification: T104704246-23-15

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: TEC BASA New Compliance Wells-Revised Report
Pace Project No.: 60460527

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60460527001	**MW-11A-091224**	Water	09/11/24 14:50	09/13/24 16:00
60460527002	**MW-12-091224**	Water	09/12/24 08:25	09/13/24 16:00
60460527003	**MW-13-091224**	Water	09/12/24 10:10	09/13/24 16:00
60460527004	**MW-14-091224**	Water	09/12/24 11:45	09/13/24 16:00

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SAMPLE ANALYTE COUNT

Project: TEC BASA New Compliance Wells-Revised Report
Pace Project No.: 60460527

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60460527001	**MW-11A-091224**	EPA 200.7	ARMN	5	PASI-K
		EPA 6010	ARMN	1	PASI-K
		EPA 200.8	JGP	8	PASI-K
		EPA 245.1	MLD	1	PASI-K
		EPA 300.0	MLL	3	PASI-SA
		SM 2540C	TML	1	PASI-K
		SM 4500-H+B	TML	1	PASI-K
60460527002	**MW-12-091224**	EPA 200.7	ARMN	5	PASI-K
		EPA 6010	ARMN	1	PASI-K
		EPA 200.8	JGP	8	PASI-K
		EPA 245.1	MLD	1	PASI-K
		EPA 300.0	MLL	3	PASI-SA
		SM 2540C	TML	1	PASI-K
		SM 4500-H+B	TML	1	PASI-K
60460527003	**MW-13-091224**	EPA 200.7	ARMN	5	PASI-K
		EPA 6010	ARMN	1	PASI-K
		EPA 200.8	JGP	8	PASI-K
		EPA 245.1	MLD	1	PASI-K
		EPA 300.0	MLL	3	PASI-SA
		SM 2540C	TML	1	PASI-K
		SM 4500-H+B	TML	1	PASI-K
60460527004	**MW-14-091224**	EPA 200.7	ARMN	5	PASI-K
		EPA 6010	ARMN	1	PASI-K
		EPA 200.8	JGP	8	PASI-K
		EPA 245.1	MLD	1	PASI-K
		EPA 300.0	MLL	3	PASI-SA
		SM 2540C	TML	1	PASI-K
		SM 4500-H+B	TML	1	PASI-K

PASI-K = Pace Analytical Services - Kansas City
PASI-SA = Pace Analytical Services - Salina

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PROJECT NARRATIVE

Project: TEC BASA New Compliance Wells-Revised Report
Pace Project No.: 60460527

Method: **EPA 200.7**
Description: 200.7 Metals, Total
Client: Evergy_Haley & Aldrich
Date: December 03, 2024

General Information:
4 samples were analyzed for EPA 200.7 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 200.7 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 908815

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60460523001,60460527001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 3596993)
  - Calcium
- MSD (Lab ID: 3596992)
  - Calcium

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: TEC BASA New Compliance Wells-Revised Report
Pace Project No.: 60460527

Method: **EPA 6010**
Description: 6010 MET ICP
Client: Evergy_Haley & Aldrich
Date: December 03, 2024

General Information:
4 samples were analyzed for EPA 6010 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA New Compliance Wells-Revised Report
Pace Project No.: 60460527

Method: **EPA 200.8**
Description: 200.8 MET ICPMS
Client: Evergy_Haley & Aldrich
Date: December 03, 2024

General Information:
4 samples were analyzed for EPA 200.8 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 200.8 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA New Compliance Wells-Revised Report
Pace Project No.: 60460527

Method: **EPA 245.1**
Description: 245.1 Mercury
Client: Evergy_Haley & Aldrich
Date: December 03, 2024

General Information:
4 samples were analyzed for EPA 245.1 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 245.1 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA New Compliance Wells-Revised Report
Pace Project No.: 60460527

Method: **EPA 300.0**
Description: 300.0 IC Anions 28 Days
Client: Evergy_Haley & Aldrich
Date: December 03, 2024

General Information:
4 samples were analyzed for EPA 300.0 by Pace Analytical Services Salina. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA New Compliance Wells-Revised Report
Pace Project No.: 60460527

Method: **SM 2540C**
Description: 2540C Total Dissolved Solids
Client: Evergy_Haley & Aldrich
Date: December 03, 2024

General Information:
4 samples were analyzed for SM 2540C by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA New Compliance Wells-Revised Report
Pace Project No.: 60460527

Method: **SM 4500-H+B**
Description: 4500H+ pH, Electrometric
Client: Evergy_Haley & Aldrich
Date: December 03, 2024

General Information:
4 samples were analyzed for SM 4500-H+B by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

H6: Analysis initiated outside of the 15 minute EPA required holding time.
- MW-11A-091224 (Lab ID: 60460527001)
- MW-12-091224 (Lab ID: 60460527002)
- MW-13-091224 (Lab ID: 60460527003)
- MW-14-091224 (Lab ID: 60460527004)

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: TEC BASA New Compliance Wells-Revised Report
Pace Project No.: 60460527

Sample: MW-11A-091224 **Lab ID: 60460527001** Collected: 09/11/24 14:50 Received: 09/13/24 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	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, Total Recoverable	**0.050**	mg/L	0.0050	1	09/17/24 09:19	09/27/24 13:12	7440-39-3	
Beryllium, Total Recoverable	**<0.0010**	mg/L	0.0010	1	09/17/24 09:19	09/27/24 13:12	7440-41-7	
Boron, Total Recoverable	**0.38**	mg/L	0.10	1	09/17/24 09:19	09/27/24 13:12	7440-42-8	
Calcium, Total Recoverable	**239**	mg/L	0.20	1	09/17/24 09:19	09/27/24 13:12	7440-70-2	M1,P6
Lead, Total Recoverable	**<0.010**	mg/L	0.010	1	09/17/24 09:19	09/27/24 13:12	7439-92-1	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Kansas City							
Lithium, Total Recoverable	**0.034**	mg/L	0.010	1	09/17/24 09:19	09/26/24 20:00	7439-93-2	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City							
Antimony, Total Recoverable	**<0.0010**	mg/L	0.0010	1	09/19/24 08:18	09/27/24 14:18	7440-36-0	
Arsenic, Total Recoverable	**0.0027**	mg/L	0.0010	1	09/19/24 08:18	09/27/24 14:18	7440-38-2	
Cadmium, Total Recoverable	**<0.00050**	mg/L	0.00050	1	09/19/24 08:18	09/27/24 14:18	7440-43-9	
Chromium, Total Recoverable	**0.0013**	mg/L	0.0010	1	09/19/24 08:18	09/27/24 14:18	7440-47-3	
Cobalt, Total Recoverable	**0.011**	mg/L	0.0010	1	09/19/24 08:18	09/27/24 14:18	7440-48-4	
Molybdenum, Total Recoverable	**0.0023**	mg/L	0.0010	1	09/19/24 08:18	09/27/24 14:18	7439-98-7	
Selenium, Total Recoverable	**<0.0010**	mg/L	0.0010	1	09/19/24 08:18	09/27/24 14:18	7782-49-2	
Thallium, Total Recoverable	**<0.0010**	mg/L	0.0010	1	09/19/24 08:18	09/27/24 14:18	7440-28-0	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Kansas City							
Mercury	**<0.20**	ug/L	0.20	1	09/17/24 10:15	09/18/24 14:22	7439-97-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Salina							
Chloride	**423**	mg/L	50.0	50		09/19/24 21:00	16887-00-6	
Fluoride	**0.27**	mg/L	0.10	1		09/19/24 11:30	16984-48-8	
Sulfate	**360**	mg/L	50.0	50		09/19/24 21:00	14808-79-8	
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City							
Total Dissolved Solids	**1550**	mg/L	66.7	1		09/18/24 15:16		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Kansas City							
pH at 25 Degrees C	**7.0**	Std. Units	0.10	1		09/24/24 13:34		H6

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TEC BASA New Compliance Wells-Revised Report
Pace Project No.: 60460527

Sample: MW-12-091224 **Lab ID: 60460527002** Collected: 09/12/24 08:25 Received: 09/13/24 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	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, Total Recoverable	**0.071**	mg/L	0.0050	1	09/17/24 09:19	09/27/24 13:15	7440-39-3	
Beryllium, Total Recoverable	**<0.0010**	mg/L	0.0010	1	09/17/24 09:19	09/27/24 13:15	7440-41-7	
Boron, Total Recoverable	**0.43**	mg/L	0.10	1	09/17/24 09:19	09/27/24 13:15	7440-42-8	
Calcium, Total Recoverable	**195**	mg/L	0.20	1	09/17/24 09:19	09/27/24 13:15	7440-70-2	
Lead, Total Recoverable	**<0.010**	mg/L	0.010	1	09/17/24 09:19	09/27/24 13:15	7439-92-1	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Kansas City							
Lithium, Total Recoverable	**0.035**	mg/L	0.010	1	09/17/24 09:19	09/26/24 20:02	7439-93-2	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City							
Antimony, Total Recoverable	**<0.0010**	mg/L	0.0010	1	09/19/24 08:18	09/27/24 14:21	7440-36-0	
Arsenic, Total Recoverable	**0.0082**	mg/L	0.0010	1	09/19/24 08:18	09/27/24 14:21	7440-38-2	
Cadmium, Total Recoverable	**<0.00050**	mg/L	0.00050	1	09/19/24 08:18	09/27/24 14:21	7440-43-9	
Chromium, Total Recoverable	**<0.0010**	mg/L	0.0010	1	09/19/24 08:18	09/27/24 14:21	7440-47-3	
Cobalt, Total Recoverable	**0.037**	mg/L	0.0010	1	09/19/24 08:18	09/27/24 14:21	7440-48-4	
Molybdenum, Total Recoverable	**0.0061**	mg/L	0.0010	1	09/19/24 08:18	09/27/24 14:21	7439-98-7	
Selenium, Total Recoverable	**<0.0010**	mg/L	0.0010	1	09/19/24 08:18	09/27/24 14:21	7782-49-2	
Thallium, Total Recoverable	**<0.0010**	mg/L	0.0010	1	09/19/24 08:18	09/27/24 14:21	7440-28-0	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Kansas City							
Mercury	**<0.20**	ug/L	0.20	1	09/17/24 10:15	09/18/24 14:29	7439-97-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Salina							
Chloride	**310**	mg/L	50.0	50		09/19/24 21:15	16887-00-6	
Fluoride	**0.36**	mg/L	0.10	1		09/19/24 12:14	16984-48-8	
Sulfate	**328**	mg/L	50.0	50		09/19/24 21:15	14808-79-8	
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City							
Total Dissolved Solids	**1310**	mg/L	66.7	1		09/19/24 14:49		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Kansas City							
pH at 25 Degrees C	**7.0**	Std. Units	0.10	1		09/24/24 13:37		H6

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ANALYTICAL RESULTS

Project: TEC BASA New Compliance Wells-Revised Report
Pace Project No.: 60460527

Sample: MW-13-091224 **Lab ID: 60460527003** Collected: 09/12/24 10:10 Received: 09/13/24 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	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, Total Recoverable	**0.13**	mg/L	0.0050	1	09/17/24 09:19	09/27/24 13:17	7440-39-3	
Beryllium, Total Recoverable	**<0.0010**	mg/L	0.0010	1	09/17/24 09:19	09/27/24 13:17	7440-41-7	
Boron, Total Recoverable	**1.2**	mg/L	0.10	1	09/17/24 09:19	09/27/24 13:17	7440-42-8	
Calcium, Total Recoverable	**268**	mg/L	0.20	1	09/17/24 09:19	09/27/24 13:17	7440-70-2	
Lead, Total Recoverable	**<0.010**	mg/L	0.010	1	09/17/24 09:19	09/27/24 13:17	7439-92-1	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Kansas City							
Lithium, Total Recoverable	**0.029**	mg/L	0.010	1	09/17/24 09:19	09/26/24 20:03	7439-93-2	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City							
Antimony, Total Recoverable	**<0.0010**	mg/L	0.0010	1	09/19/24 08:18	09/27/24 14:24	7440-36-0	
Arsenic, Total Recoverable	**0.015**	mg/L	0.0010	1	09/19/24 08:18	09/27/24 14:24	7440-38-2	
Cadmium, Total Recoverable	**<0.00050**	mg/L	0.00050	1	09/19/24 08:18	09/27/24 14:24	7440-43-9	
Chromium, Total Recoverable	**0.014**	mg/L	0.0010	1	09/19/24 08:18	09/27/24 14:24	7440-47-3	
Cobalt, Total Recoverable	**0.0068**	mg/L	0.0010	1	09/19/24 08:18	09/27/24 14:24	7440-48-4	
Molybdenum, Total Recoverable	**0.038**	mg/L	0.0010	1	09/19/24 08:18	09/27/24 14:24	7439-98-7	
Selenium, Total Recoverable	**0.0031**	mg/L	0.0010	1	09/19/24 08:18	09/27/24 14:24	7782-49-2	
Thallium, Total Recoverable	**<0.0010**	mg/L	0.0010	1	09/19/24 08:18	09/27/24 14:24	7440-28-0	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Kansas City							
Mercury	**<0.20**	ug/L	0.20	1	09/17/24 10:15	09/18/24 14:31	7439-97-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Salina							
Chloride	**201**	mg/L	20.0	20		09/19/24 21:30	16887-00-6	
Fluoride	**0.14**	mg/L	0.10	1		09/19/24 12:29	16984-48-8	
Sulfate	**656**	mg/L	50.0	50		09/19/24 21:44	14808-79-8	
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City							
Total Dissolved Solids	**1570**	mg/L	40.0	1		09/19/24 14:49		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Kansas City							
pH at 25 Degrees C	**7.9**	Std. Units	0.10	1		09/24/24 14:26		H6

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ANALYTICAL RESULTS

Project: TEC BASA New Compliance Wells-Revised Report
Pace Project No.: 60460527

Sample: MW-14-091224 **Lab ID: 60460527004** Collected: 09/12/24 11:45 Received: 09/13/24 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	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, Total Recoverable	**0.029**	mg/L	0.0050	1	09/17/24 09:19	09/27/24 13:19	7440-39-3	
Beryllium, Total Recoverable	**<0.0010**	mg/L	0.0010	1	09/17/24 09:19	09/27/24 13:19	7440-41-7	
Boron, Total Recoverable	**0.96**	mg/L	0.10	1	09/17/24 09:19	09/27/24 13:19	7440-42-8	
Calcium, Total Recoverable	**197**	mg/L	0.20	1	09/17/24 09:19	09/27/24 13:19	7440-70-2	
Lead, Total Recoverable	**<0.010**	mg/L	0.010	1	09/17/24 09:19	09/27/24 13:19	7439-92-1	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Kansas City							
Lithium, Total Recoverable	**0.030**	mg/L	0.010	1	09/17/24 09:19	09/26/24 20:05	7439-93-2	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City							
Antimony, Total Recoverable	**<0.0010**	mg/L	0.0010	1	09/19/24 08:18	09/27/24 14:26	7440-36-0	
Arsenic, Total Recoverable	**0.0017**	mg/L	0.0010	1	09/19/24 08:18	09/27/24 14:26	7440-38-2	
Cadmium, Total Recoverable	**<0.00050**	mg/L	0.00050	1	09/19/24 08:18	09/27/24 14:26	7440-43-9	
Chromium, Total Recoverable	**<0.0010**	mg/L	0.0010	1	09/19/24 08:18	09/27/24 14:26	7440-47-3	
Cobalt, Total Recoverable	**0.0011**	mg/L	0.0010	1	09/19/24 08:18	09/27/24 14:26	7440-48-4	
Molybdenum, Total Recoverable	**0.021**	mg/L	0.0010	1	09/19/24 08:18	09/27/24 14:26	7439-98-7	
Selenium, Total Recoverable	**<0.0010**	mg/L	0.0010	1	09/19/24 08:18	09/27/24 14:26	7782-49-2	
Thallium, Total Recoverable	**<0.0010**	mg/L	0.0010	1	09/19/24 08:18	09/27/24 14:26	7440-28-0	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Kansas City							
Mercury	**<0.20**	ug/L	0.20	1	09/17/24 10:15	09/18/24 14:38	7439-97-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Salina							
Chloride	**222**	mg/L	20.0	20		09/19/24 21:59	16887-00-6	
Fluoride	**0.27**	mg/L	0.10	1		09/19/24 12:43	16984-48-8	
Sulfate	**411**	mg/L	50.0	50		09/19/24 22:14	14808-79-8	
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City							
Total Dissolved Solids	**1160**	mg/L	20.0	1		09/19/24 14:49		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Kansas City							
pH at 25 Degrees C	**7.3**	Std. Units	0.10	1		09/24/24 14:32		H6

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QUALITY CONTROL DATA

Project: TEC BASA New Compliance Wells-Revised Report
Pace Project No.: 60460527

QC Batch: 908834
QC Batch Method: EPA 245.1
Analysis Method: EPA 245.1
Analysis Description: 245.1 Mercury
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60460527001, 60460527002, 60460527003, 60460527004

METHOD BLANK: 3597054 Matrix: Water
Associated Lab Samples: 60460527001, 60460527002, 60460527003, 60460527004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	<0.20	0.20	09/18/24 13:43	

LABORATORY CONTROL SAMPLE: 3597055

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.6	91	85-115	

MATRIX SPIKE SAMPLE: 3597056

Parameter	Units	60460478001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	ND	5	3.8	76	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3597057 3597058

Parameter	Units	60460527001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	<0.20	5	5	3.9	3.9	78	78	70-130	0	20	

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QUALITY CONTROL DATA

Project: TEC BASA New Compliance Wells-Revised Report
Pace Project No.: 60460527

QC Batch: 908815
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: 60460527001, 60460527002, 60460527003, 60460527004

METHOD BLANK: 3596989 Matrix: Water
Associated Lab Samples: 60460527001, 60460527002, 60460527003, 60460527004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Barium	mg/L	<0.0050	0.0050	09/27/24 12:44	
Beryllium	mg/L	<0.0010	0.0010	09/27/24 12:44	
Boron	mg/L	<0.10	0.10	09/27/24 12:44	
Calcium	mg/L	<0.20	0.20	09/27/24 12:44	
Lead	mg/L	<0.010	0.010	09/27/24 12:44	

LABORATORY CONTROL SAMPLE: 3596990

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	mg/L	1	1.0	102	85-115	
Beryllium	mg/L	1	1.0	104	85-115	
Boron	mg/L	1	0.98	98	85-115	
Calcium	mg/L	10	11.2	112	85-115	
Lead	mg/L	1	1.0	101	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3596991 3596992

Parameter	Units	60460523001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	mg/L	43.8 ug/L	1	1	1.0	1.0	98	100	70-130	2	20	
Beryllium	mg/L	<1.0 ug/L	1	1	1.0	1.1	103	106	70-130	3	20	
Boron	mg/L	367 ug/L	1	1	1.3	1.4	97	100	70-130	2	20	
Calcium	mg/L	235000 ug/L	10	10	243	248	80	133	70-130	2	20	M1
Lead	mg/L	<10.0 ug/L	1	1	0.93	0.95	93	95	70-130	2	20	

MATRIX SPIKE SAMPLE: 3596993

Parameter	Units	60460527001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Barium	mg/L	0.050	1	1.1	101	70-130	
Beryllium	mg/L	<0.0010	1	1.0	105	70-130	
Boron	mg/L	0.38	1	1.4	100	70-130	
Calcium	mg/L	239	10	253	141	70-130	M1
Lead	mg/L	<0.010	1	0.95	94	70-130	

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QUALITY CONTROL DATA

Project: TEC BASA New Compliance Wells-Revised Report
Pace Project No.: 60460527

QC Batch: 908886
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: 60460527001, 60460527002, 60460527003, 60460527004

METHOD BLANK: 3597284 Matrix: Water
Associated Lab Samples: 60460527001, 60460527002, 60460527003, 60460527004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	mg/L	<0.0010	0.0010	09/27/24 13:34	
Arsenic	mg/L	<0.0010	0.0010	09/27/24 13:34	
Cadmium	mg/L	<0.00050	0.00050	09/27/24 13:34	
Chromium	mg/L	<0.0010	0.0010	09/27/24 13:34	
Cobalt	mg/L	<0.0010	0.0010	09/27/24 13:34	
Molybdenum	mg/L	<0.0010	0.0010	09/27/24 13:34	
Selenium	mg/L	<0.0010	0.0010	09/27/24 13:34	
Thallium	mg/L	<0.0010	0.0010	09/27/24 13:34	

LABORATORY CONTROL SAMPLE: 3597285

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.04	0.039	98	85-115	
Arsenic	mg/L	0.04	0.040	99	85-115	
Cadmium	mg/L	0.04	0.040	100	85-115	
Chromium	mg/L	0.04	0.041	102	85-115	
Cobalt	mg/L	0.04	0.041	103	85-115	
Molybdenum	mg/L	0.04	0.040	100	85-115	
Selenium	mg/L	0.04	0.041	101	85-115	
Thallium	mg/L	0.04	0.040	100	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3597286 3597287

Parameter	Units	60460524001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	<1.0 ug/L	0.04	0.04	0.040	0.039	100	98	70-130	2	20	
Arsenic	mg/L	<0.0010	0.04	0.04	0.042	0.041	104	102	70-130	2	20	
Cadmium	mg/L	<0.50 ug/L	0.04	0.04	0.039	0.038	96	94	70-130	2	20	
Chromium	mg/L	<1.0 ug/L	0.04	0.04	0.040	0.040	100	98	70-130	1	20	
Cobalt	mg/L	<0.0010	0.04	0.04	0.040	0.039	99	98	70-130	1	20	
Molybdenum	mg/L	<1.0 ug/L	0.04	0.04	0.045	0.044	110	108	70-130	2	20	
Selenium	mg/L	<1.0 ug/L	0.04	0.04	0.039	0.040	99	99	70-130	1	20	
Thallium	mg/L	<1.0 ug/L	0.04	0.04	0.039	0.038	98	95	70-130	3	20	

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REPORT OF LABORATORY ANALYSIS

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Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: TEC BASA New Compliance Wells-Revised Report
Pace Project No.: 60460527

MATRIX SPIKE SAMPLE: 3597288

Parameter	Units	60460531002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	<0.0010	0.04	0.039	97	70-130	
Arsenic	mg/L	0.0014	0.04	0.042	100	70-130	
Cadmium	mg/L	<0.00050	0.04	0.038	94	70-130	
Chromium	mg/L	0.0017	0.04	0.040	97	70-130	
Cobalt	mg/L	<0.0010	0.04	0.039	96	70-130	
Molybdenum	mg/L	<0.0010	0.04	0.044	108	70-130	
Selenium	mg/L	<0.0010	0.04	0.039	96	70-130	
Thallium	mg/L	<0.0010	0.04	0.039	96	70-130	

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QUALITY CONTROL DATA

Project: TEC BASA New Compliance Wells-Revised Report
Pace Project No.: 60460527

QC Batch: 908810
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60460527001, 60460527002, 60460527003, 60460527004

METHOD BLANK: 3596971 Matrix: Water
Associated Lab Samples: 60460527001, 60460527002, 60460527003, 60460527004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lithium	mg/L	<0.010	0.010	09/26/24 19:11	

LABORATORY CONTROL SAMPLE: 3596972

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lithium	mg/L	1	1.0	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3596973 3596974

Parameter	Units	60460491004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lithium	mg/L	12.0 ug/L	1	1	1.0	1.0	100	100	75-125	0	20	

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QUALITY CONTROL DATA

Project: TEC BASA New Compliance Wells-Revised Report
Pace Project No.: 60460527

QC Batch: 909076
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: 60460527001, 60460527002, 60460527003, 60460527004

METHOD BLANK: 3598110 Matrix: Water
Associated Lab Samples: 60460527001, 60460527002, 60460527003, 60460527004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<1.0	1.0	09/19/24 09:18	
Fluoride	mg/L	<0.10	0.10	09/19/24 09:18	
Sulfate	mg/L	<1.0	1.0	09/19/24 09:18	

LABORATORY CONTROL SAMPLE: 3598111

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	5.0	99	90-110	
Fluoride	mg/L	2.5	2.5	101	90-110	
Sulfate	mg/L	5	5.1	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3598112 3598113

Parameter	Units	60460524001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	44.4	25	25	70.3	70.5	103	104	80-120	0	15	
Fluoride	mg/L	0.29	2.5	2.5	2.8	2.7	98	98	80-120	1	15	
Sulfate	mg/L	341	250	250	609	603	107	105	80-120	1	15	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3598114 3598115

Parameter	Units	60460531002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	22.9	25	25	49.6	49.2	107	105	80-120	1	15	
Fluoride	mg/L	0.24	2.5	2.5	2.7	2.7	100	98	80-120	2	15	
Sulfate	mg/L	246	250	250	498	498	101	101	80-120	0	15	

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QUALITY CONTROL DATA

Project: TEC BASA New Compliance Wells-Revised Report
Pace Project No.: 60460527

QC Batch: 909002
QC Batch Method: SM 2540C
Analysis Method: SM 2540C
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60460527001

METHOD BLANK: 3597756 Matrix: Water
Associated Lab Samples: 60460527001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<5.0	5.0	09/18/24 15:15	

LABORATORY CONTROL SAMPLE: 3597757

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	1000	972	97	80-120	

SAMPLE DUPLICATE: 3597758

Parameter	Units	60460524003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1330	1340	0	10	

SAMPLE DUPLICATE: 3597764

Parameter	Units	60460191019 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	988	986	0	10	

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QUALITY CONTROL DATA

Project: TEC BASA New Compliance Wells-Revised Report
Pace Project No.: 60460527

QC Batch: 909172
QC Batch Method: SM 2540C
Analysis Method: SM 2540C
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60460527002, 60460527003, 60460527004

METHOD BLANK: 3598505 Matrix: Water
Associated Lab Samples: 60460527002, 60460527003, 60460527004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<5.0	5.0	09/19/24 14:47	

LABORATORY CONTROL SAMPLE: 3598506

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	1000	978	98	80-120	

SAMPLE DUPLICATE: 3598507

Parameter	Units	60460418001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	3370	3480	3	10	

SAMPLE DUPLICATE: 3598508

Parameter	Units	60460535001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	976	976	0	10	

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QUALITY CONTROL DATA

Project: TEC BASA New Compliance Wells-Revised Report
Pace Project No.: 60460527

QC Batch: 909694
QC Batch Method: SM 4500-H+B
Analysis Method: SM 4500-H+B
Analysis Description: 4500H+B pH
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60460527001, 60460527002

SAMPLE DUPLICATE: 3600994

Parameter	Units	60460669003 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	6.9	7.0	0	5	H6

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QUALITY CONTROL DATA

Project: TEC BASA New Compliance Wells-Revised Report
Pace Project No.: 60460527

QC Batch: 909695
QC Batch Method: SM 4500-H+B
Analysis Method: SM 4500-H+B
Analysis Description: 4500H+B pH
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60460527003, 60460527004

SAMPLE DUPLICATE: 3600998

Parameter	Units	60460440002 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.7	7.7	0	5	H6

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QUALIFIERS

Project: TEC BASA New Compliance Wells-Revised Report
Pace Project No.: 60460527

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

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.
P6	Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: TEC BASA New Compliance Wells-Revised Report
Pace Project No.: 60460527

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60460527001	**MW-11A-091224**	EPA 200.7	908815	EPA 200.7	908897
60460527002	**MW-12-091224**	EPA 200.7	908815	EPA 200.7	908897
60460527003	**MW-13-091224**	EPA 200.7	908815	EPA 200.7	908897
60460527004	**MW-14-091224**	EPA 200.7	908815	EPA 200.7	908897
60460527001	**MW-11A-091224**	EPA 3010	908810	EPA 6010	908898
60460527002	**MW-12-091224**	EPA 3010	908810	EPA 6010	908898
60460527003	**MW-13-091224**	EPA 3010	908810	EPA 6010	908898
60460527004	**MW-14-091224**	EPA 3010	908810	EPA 6010	908898
60460527001	**MW-11A-091224**	EPA 200.8	908886	EPA 200.8	909138
60460527002	**MW-12-091224**	EPA 200.8	908886	EPA 200.8	909138
60460527003	**MW-13-091224**	EPA 200.8	908886	EPA 200.8	909138
60460527004	**MW-14-091224**	EPA 200.8	908886	EPA 200.8	909138
60460527001	**MW-11A-091224**	EPA 245.1	908834	EPA 245.1	908877
60460527002	**MW-12-091224**	EPA 245.1	908834	EPA 245.1	908877
60460527003	**MW-13-091224**	EPA 245.1	908834	EPA 245.1	908877
60460527004	**MW-14-091224**	EPA 245.1	908834	EPA 245.1	908877
60460527001	**MW-11A-091224**	EPA 300.0	909076		
60460527002	**MW-12-091224**	EPA 300.0	909076		
60460527003	**MW-13-091224**	EPA 300.0	909076		
60460527004	**MW-14-091224**	EPA 300.0	909076		
60460527001	**MW-11A-091224**	SM 2540C	909002		
60460527002	**MW-12-091224**	SM 2540C	909172		
60460527003	**MW-13-091224**	SM 2540C	909172		
60460527004	**MW-14-091224**	SM 2540C	909172		
60460527001	**MW-11A-091224**	SM 4500-H+B	909694		
60460527002	**MW-12-091224**	SM 4500-H+B	909694		
60460527003	**MW-13-091224**	SM 4500-H+B	909695		
60460527004	**MW-14-091224**	SM 4500-H+B	909695		

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Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-LENE-0009_Sa	WO# : 60460527
	Revision: 2	Effective Date: 01/12/

Client Name: Evergl KS

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: T2478 **Type of Ice:** Wet Blue None

Cooler Temperature (°C): **As-read** 4.1 **Corr. Factor** 1.0 **Corrected** 4.2

Date and initials of person examining contents: 1/16

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#:** 88121	☒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

6046052A

Scan QR Code for instructions

Company Name:	Evergy Kansas Central, Inc.	Contact/Report To:	Jake Humphrey
Street Address:	818 S Kansas Avenue, Topeka, KS 66612	Phone #:	(913)634-0605
		E-Mail:	jake.humphrey@evergy.com
		Cc E-Mail:	skaney@haleyaldrich.com
Customer Project #:			
Project Name:	TEC BASA NEW WELLS	Invoice To:	Tecumseh Center
		Invoice E-Mail:	evergyap@onlinecapturecenter.com
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	WSTR-2000018660
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [X] CT [ ] ET

County / State origin of sample(s): Kansas

Data Deliverables:
[ ] Level II [ ] Level III [ ] Level IV
[ ] EQUIS
[ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [ ] Yes [X] 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 [X] 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	200.7 /200.8 / 245.1/6010	2540C Total Dissolved Solids	300.0 IC Cl,F,SO4	4500H+ pH, Electrometric
										Specify Container Size **			
										3	2	3	3
										Identify Container Preservative Type***			
										2	1	1	1
										Analysis Requested			
MW-11A-091124	GW	Grab	-	-	9/11/2024	1450	4	-	-	X	X	X	X
MW-12-091224	GW	Grab	-	-	9/12/2024	825	4	-	-	X	X	X	X
MW-13-091224	GW	Grab	-	-	9/12/2024	1010	4	-	-	X	X	X	X
MW-14-091224	GW	Grab	-	-	9/12/2024	1145	4	-	-	X	X	X	X

**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: Alice Spiller
AcctNum / Client ID:
Table #:
Profile / Template: 16502
Prelog / Bottle Ord. ID: EZ 3150913

Sample Comment

Preservation non-conformance identified for sample

Additional Instructions from Pace®:
200.7 B,Ca,Ba,Be,Cr,Pb
200.8 Sb,As,Cd,Co,Mo,Se,Tl
6010 Li / 245.1 Hg

Collected By: (Printed Name) Jason R. Franks
Signature: Jason R. Franks

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)	On Ice:

Relinquished by/Company: (Signature) Jason R. Franks / SCS	Date/Time: 09/13/2024 / 15:00	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: 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/

Client: Everest KS

Profile/EZ #: 0315093

Site: TECBASE New Wells

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	BP3C	BP3Z	WPDU	ZPLC	Other		
1	WT																			1	2	1										
2																				1	2	1										
3																				1	2	1										
4																				1	2	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	
BP1C	1L NAOH plastic
BP1N	1L HNO3 plastic
BP1S	1L H2SO4 plastic
BP1U	1L unpreserved plastic
BP1Z	1L NaOH, Zn Acetate
BP2C	500mL NAOH plastic
BP2N	500mL HNO3 plastic
BP2S	500mL H2SO4 plastic
BP2U	500mL unpreserved plastic
BP2Z	500mL NaOH, Zn Acetate
BP3C	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: 6947095

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

October 14, 2024

Jake Humphrey
Evergy, Inc.
818 S Kansas Avenue
Topeka, KS 66612

RE: Project: TEC BASA New Compliance Wells
Pace Project No.: 60460528

Dear Jake Humphrey:

Enclosed are the analytical results for sample(s) received by the laboratory on September 13, 2024. 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 - Greensburg

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

Sincerely,

Alice Spiller

Alice Spiller
alice.spiller@pacelabs.com
(913)599-5665
PM Lab Management

Enclosures

cc: Heath Horyna, Evergy, Inc.
Samantha Kaney, Haley & Aldrich
Melanie Satanek, Haley & Aldrich, Inc.
Adriana Sosa, Haley & Aldrich, Inc.
Nick Williams, Haley Aldrich

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CERTIFICATIONS

Project: TEC BASA New Compliance Wells
Pace Project No.: 60460528

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

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SAMPLE SUMMARY

Project: TEC BASA New Compliance Wells
Pace Project No.: 60460528

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60460528001	**MW-11A-091124**	Water	09/11/24 14:50	09/13/24 16:00
60460528002	**MW-12-091124**	Water	09/12/24 08:25	09/13/24 16:00
60460528003	**MW-13-091124**	Water	09/12/24 10:10	09/13/24 16:00
60460528004	**MW-14-091124**	Water	09/12/24 11:45	09/13/24 16:00

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SAMPLE ANALYTE COUNT

Project: TEC BASA New Compliance Wells
Pace Project No.: 60460528

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60460528001	**MW-11A-091124**	EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
60460528002	**MW-12-091124**	EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
60460528003	**MW-13-091124**	EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
60460528004	**MW-14-091124**	EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

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PROJECT NARRATIVE

Project: TEC BASA New Compliance Wells
Pace Project No.: 60460528

Method: **EPA 903.1**
Description: 903.1 Radium 226
Client: Evergy_Haley & Aldrich
Date: October 14, 2024

General Information:
4 samples were analyzed for EPA 903.1 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA New Compliance Wells
Pace Project No.: 60460528

Method: **EPA 904.0**
Description: 904.0 Radium 228
Client: Evergy_Haley & Aldrich
Date: October 14, 2024

General Information:
4 samples were analyzed for EPA 904.0 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA New Compliance Wells
Pace Project No.: 60460528

Method: **Total Radium Calculation**
Description: Total Radium 228+226
Client: Evergy_Haley & Aldrich
Date: October 14, 2024

General Information:
4 samples were analyzed for Total Radium Calculation by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: TEC BASA New Compliance Wells
Pace Project No.: 60460528

Sample: MW-11A-091124 **Lab ID: 60460528001** Collected: 09/11/24 14:50 Received: 09/13/24 16:00 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	**0.405 ± 0.629 (1.08) C:NA T:87%**	pCi/L	10/08/24 15:41	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.649 ± 0.536 (1.07) C:68% T:85%**	pCi/L	10/07/24 15:55	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.05 ± 1.17 (2.15)**	pCi/L	10/09/24 13:27	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: TEC BASA New Compliance Wells
Pace Project No.: 60460528

Sample: MW-12-091124 **Lab ID: 60460528002** Collected: 09/12/24 08:25 Received: 09/13/24 16:00 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	**-0.266 ± 0.589 (1.17) C:NA T:92%**	pCi/L	10/08/24 15:41	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**2.16 ± 0.696 (0.906) C:73% T:89%**	pCi/L	10/07/24 15:55	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**2.16 ± 1.29 (2.08)**	pCi/L	10/09/24 13:27	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: TEC BASA New Compliance Wells
Pace Project No.: 60460528

Sample: MW-13-091124 **Lab ID: 60460528003** Collected: 09/12/24 10:10 Received: 09/13/24 16:00 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	**-0.0961 ± 0.580 (1.13) C:NA T:88%**	pCi/L	10/08/24 15:41	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.913 ± 0.467 (0.794) C:80% T:84%**	pCi/L	10/07/24 15:55	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.913 ± 1.05 (1.92)**	pCi/L	10/09/24 13:27	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: TEC BASA New Compliance Wells
Pace Project No.: 60460528

Sample: MW-14-091124 **Lab ID: 60460528004** Collected: 09/12/24 11:45 Received: 09/13/24 16:00 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	**0.652 ± 0.350 (0.126) C:NA T:93%**	pCi/L	10/08/24 15:41	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**1.17 ± 0.511 (0.831) C:79% T:82%**	pCi/L	10/07/24 15:56	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.82 ± 0.861 (0.957)**	pCi/L	10/09/24 13:27	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: TEC BASA New Compliance Wells
Pace Project No.: 60460528

QC Batch: 697991
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: 60460528001, 60460528002, 60460528003, 60460528004

METHOD BLANK: 3398791 Matrix: Water
Associated Lab Samples: 60460528001, 60460528002, 60460528003, 60460528004

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.178 ± 0.387 (0.857) C:80% T:86%	pCi/L	10/07/24 15:55	

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

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QUALITY CONTROL - RADIOCHEMISTRY

Project: TEC BASA New Compliance Wells
Pace Project No.: 60460528

QC Batch: 697990
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: 60460528001, 60460528002, 60460528003, 60460528004

METHOD BLANK: 3398789 Matrix: Water
Associated Lab Samples: 60460528001, 60460528002, 60460528003, 60460528004

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.104 ± 0.263 (0.487) C:NA T:95%	pCi/L	10/08/24 15:41	

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

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QUALIFIERS

Project: TEC BASA New Compliance Wells
Pace Project No.: 60460528

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.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: TEC BASA New Compliance Wells
Pace Project No.: 60460528

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60460528001	**MW-11A-091124**	EPA 903.1	697990		
60460528002	**MW-12-091124**	EPA 903.1	697990		
60460528003	**MW-13-091124**	EPA 903.1	697990		
60460528004	**MW-14-091124**	EPA 903.1	697990		
60460528001	**MW-11A-091124**	EPA 904.0	697991		
60460528002	**MW-12-091124**	EPA 904.0	697991		
60460528003	**MW-13-091124**	EPA 904.0	697991		
60460528004	**MW-14-091124**	EPA 904.0	697991		
60460528001	**MW-11A-091124**	Total Radium Calculation	701718		
60460528002	**MW-12-091124**	Total Radium Calculation	701718		
60460528003	**MW-13-091124**	Total Radium Calculation	701718		
60460528004	**MW-14-091124**	Total Radium Calculation	701718		

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WO# : 60460528

60460528

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

Client Name: Evergy

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-298 **Type of Ice:** Wet Blue (None)

Cooler Temperature (°C): **As-read** 26.9 **Corr. Factor** 0.1 **Corrected** 26.8

Date and initials of person examining contents: KH 9/16

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: _____

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

60460528

Scan QR Code for instructions

Company Name:	Evergy Kansas Central, Inc.	Contact/Report To:	Jake Humphrey
Street Address:	818 S Kansas Avenue, Topeka, KS 66612	Phone #:	(913)634-0605
		E-Mail:	jake.humphrey@evergy.com
		Cc E-Mail:	skaney@haleyaldrich.com
Customer Project #:			
Project Name:	TEC BASA NEW WELLS RADCHEM	Invoice To:	Tecumseh Center
		Invoice E-Mail:	evergyap@onlinecapturecenter.com
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	WSTR-2000018660
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [X] CT [ ] ET

County / State origin of sample(s): Kansas

Data Deliverables:
[ ] Level II [ ] Level III [ ] Level IV
[ ] EQUIS
[ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [ ] Yes [X] 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 [X] 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	Radium 226	Radium 228, combined, QC SHEETS
MW-11A-091124	GW	Grab	-	-	9/11/2024	1450	2	-	-	X	X
MW-12-091224	GW	Grab	-	-	9/12/2024	825	2	-	-	X	X
MW-13-091224	GW	Grab	-	-	9/12/2024	1010	2	-	-	X	X
MW-14-091224	GW	Grab	-	-	9/12/2024	1145	2	-	-	X	X

Specify Container Size **: 1 1
Identify Container Preservative Type***: 2 2
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: Alice Spiller
AcctNum / Client ID:
Table #:
Profile / Template: 16502
Prelog / Bottle Ord. ID: EZ 3150918

Sample Comment

Preservation non-conformance identified for sample.

Additional Instructions from Pace®:

Collected By: (Printed Name) Jason R. Franks
Signature: Jason R. Franks

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)	On Ice:
1	T-298	0.1	26.9	26.8	N

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Jason R. Franks / SCS	09/13/2024 / 15:00		9/13 1606

Tracking Number:

Delivered by: [ ] In- Person [ ] Courier
[ ] FedEX [ ] UPS [ ] Other

Page: 1 of 1

Page 17 of 22

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: Evergy Kansas Central Profile/EZ# 3150918

Site: TEL BASA New Wells Radchem 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	↓																					↓										
3																																
4																																
5																																
6																																
7																																
8																																
9																																
10																																
11																																
12																																

Container Codes

Glass				Plastic		Misc.	
DG9B	40mL bisulfate clear vial	WGKU	8oz clear soil jar	BP1B	1L NAOH plastic	I	Wipe/Swab
DG9H	40mL HCl amber voa vial	WGFU	4oz clear soil jar	BP1N	1L HNO3 plastic	SP5T	120mL Coliform Na Thiosulfate
DG9M	40mL MeOH clear vial	WG2U	2oz clear soil jar	BP1S	1L H2SO4 plastic	ZPLC	Ziploc Bag
DG9Q	40mL TSP amber vial	JGFU	4oz unpreserved amber wide	BP1U	1L unpreserved plastic	AF	Air Filter
DG9S	40mL H2SO4 amber vial	AG0U	100mL unores amber glass	BP1Z	1L NaOH, Zn Acetate	C	Air Cassettes
DG9T	40mL Na Thio amber vial	AG1H	1L HCl amber glass	BP2B	500mL NAOH plastic	R	Terracore Kit
DG9U	40mL amber unpreserved	AG1S	1L H2SO4 amber glass	BP2N	500mL HNO3 plastic	U	Summa Can
VG9H	40mL HCl clear vial	AG1T	1L Na Thiosulfate clear/amber glass	BP2S	500mL H2SO4 plastic		
VG9T	40mL Na Thio. clear vial	AG1U	1liter unpres amber glass	BP2U	500mL unpreserved plastic		
VG9U	40mL unpreserved clear vial	AG2N	500mL HNO3 amber glass	BP2Z	500mL NaOH, Zn Acetate	Matrix	
BG1S	1liter H2SO4 clear glass	AG2S	500mL H2SO4 amber glass	BP3B	250mL NaOH plastic		
BG1U	1liter unpres glass	AG3S	250mL H2SO4 amber glass	BP3F	250mL HNO3 plastic - field filtered	WT	Water
BG3H	250mL HCL Clear glass	AG2U	500mL unpres amber glass	BP3N	250mL HNO3 plastic	SL	Solid
BG3U	250mL Unpres Clear glass	AG3U	250mL unpres amber glass	BP3U	250mL unpreserved plastic	NAL	Non-aqueous Liquid
WGDU	16oz clear soil jar	AG4U	125mL unpres amber glass	BP3S	250mL H2SO4 plastic	OL	OIL
		AG5U	100mL unpres amber glass	BP3Z	250mL NaOH, Zn Acetate	WP	Wipe
				BP4U	125mL unpreserved plastic	DW	Drinking Water
				BP4N	125mL HNO3 plastic		
				BP4S	125mL H2SO4 plastic		
				WPDU	16oz unpresserved plstic		

Work Order Number

WO#: 60460528

PM: AS Due Date: 10/14/24

CLIENT: Evergy_Haley

Internal Transfer Chain of Custody

Pace

☐ Rush Multiplier____X
☒ Samples Pre-Logged into eCOC

State Of Origin: KS
Cert. Needed: ☒ Yes ☐ No

Workorder: 60460528 Workorder Name: TEC BASA New Compliance Wells

Owner Received Date: 9/13/2024 Results Requested By: 10/14/2024

Report To	Subcontract To
Alice Spiller Pace Analytical Kansas 9608 Loiret Blvd. Lenexa, KS 66219 Phone (913)599-5665	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	QC Sheets	Radium 226	Radium 228 + combined	LAB USE ONLY
1	MW-11A-091124	PS	9/11/2024 14:50	60460528001	Water	2	X	X	X	001
2	MW-12-091124	PS	9/12/2024 08:25	60460528002	Water	2	X	X	X	002
3	MW-13-091124	PS	9/12/2024 10:10	60460528003	Water	2	X	X	X	003
4	MW-14-091124	PS	9/12/2024 11:45	60460528004	Water	2		X	X	004
5										

Transfers	Released By	Date/Time	Received By	Date/Time
1	JAPale	9/18/24 1700	[signature]	9/19/24 948
2				
3				

Comments: KS sample location: 60-R01-S5A

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# : 30719199

30719199

DC#_Title: ENV-FRM-GBUR-0088 v07_Sample Co

Greensburg

Effective Date: 01/04/2024

WO# : 30719199

PM: MAR Due Date: 10/10/24

CLIENT: PACE_60_LEKS

Client Name: Pace KS

Proje

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other

Tracking Number: 403364500621

Initial / Date

Examined By: JS 9/19/24

Labeled By: JS 9/19/24

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# 1002931 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: -Includes date/time/ID Matrix: WT	✓			5.
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 JS / 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 JS / Date: 9/19/24 / Survey Meter SN: 2501380

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

Quality Control Sample Performance Assessment

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test:	Ra-226
Analyst:	LL1
Date:	10/8/2024
Batch ID:	81470
Matrix:	DW

Method Blank Assessment	
MB Sample ID	3398789
MB concentration:	0.104
M/B Counting Uncertainty:	0.262
MB MDC:	0.487
MB Numerical Performance Indicator:	0.77
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS81470	**LCSD81470**
Count Date:	10/8/2024	10/8/2024
Spike I.D.:	23-063	23-063
Spike Concentration (pCi/mL):	32.294	32.294
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.657	0.655
Target Conc. (pCi/L, g, F):	4.917	4.933
Uncertainty (Calculated):	0.231	0.232
Result (pCi/L, g, F):	4.770	4.905
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.913	0.852
Numerical Performance Indicator:	-0.31	-0.06
Percent Recovery:	97.01%	99.44%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	133%	133%
Lower % Recovery Limits:	73%	73%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS81470	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD81470	
Sample Result (pCi/L, g, F):	4.770	
Sample Result Counting Uncertainty (pCi/L, g, F):	0.913	
Sample Duplicate Result (pCi/L, g, F):	4.905	
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.852	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	-0.213	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	2.47%	
Duplicate Status vs Numerical Indicator:	N/A	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	32%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the RL.

Comments:

REH 10/9/24

Arizona DHES requires qualification for any AZ DW samples reported where the QC does not meet the recommended limits of the Manual for the Certification of Labs Analyzing Drinking Waters, 5th Edition , section 7.7 of Chapter VI.

QLM 10/9/24

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Test:	Ra-228
Analyst:	JJS1
Date:	10/1/2024
Worklist:	81471
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3398791
MB concentration:	0.178
M/B 2 Sigma CSU:	0.387
MB MDC:	0.857
MB Numerical Performance Indicator:	0.90
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS81471	LCSD81471
Count Date:	10/7/2024	10/7/2024
Spike I.D.:	23-043	23-043
Decay Corrected Spike Concentration (pCi/mL):	35.027	35.027
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.819	0.820
Target Conc. (pCi/L, g, F):	4.277	4.274
Uncertainty (Calculated):	0.210	0.209
Result (pCi/L, g, F):	3.065	3.727
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.777	0.897
Numerical Performance Indicator:	-2.95	-1.16
Percent Recovery:	71.65%	87.20%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS81471	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD81471	
Sample Result (pCi/L, g, F):	3.065	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.777	
Sample Duplicate Result (pCi/L, g, F):	3.727	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.897	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	-1.094	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	19.59%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	36%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

VAL 10/8/24

ZPC 10-8-24

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

February 07, 2025

Jake Humphrey
Evergy, Inc.
818 S Kansas Avenue
Topeka, KS 66612

RE: Project: TEC BASA New Compliance Wells-Revised Report
Pace Project No.: 60465554

Dear Jake Humphrey:

Enclosed are the analytical results for sample(s) received by the laboratory on November 27, 2024. 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 - Minneapolis

REVISED to report units in mg/L and report to the MDL

REVISION_2 amended to report metals by 200.8 for lower reporting limits

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

Sincerely,

Alice Spiller

Alice Spiller
alice.spiller@pacelabs.com
(913)599-5665
PM Lab Management

Enclosures

cc: Heath Horyna, Evergy, Inc.
Samantha Kaney, Haley & Aldrich
Melanie Satanek, Haley & Aldrich, Inc.
Adriana Sosa, Haley & Aldrich, Inc.
Nick Williams, Haley Aldrich

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

CERTIFICATIONS

Project: TEC BASA New Compliance Wells-Revised Report
Pace Project No.: 60465554

Pace Analytical Services, LLC - Minneapolis MN

1700 Elm Street SE, Minneapolis, MN 55414
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014
Arkansas DW Certification #: MN00064
Arkansas WW Certification #: 88-0680
California Certification #: 2929
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
DoD Certification via A2LA #: 2926.01
EPA Region 8 Tribal Water Systems+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605
Georgia Certification #: 959
GMP+ Certification #: GMP050884
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
ISO/IEC 17025 Certification via A2LA #: 2926.01
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: AI-03086
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064
Maryland Certification #: 322
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137
Minnesota Dept of Ag Approval: via MN 027-053-137
Minnesota Petrofund Registration #: 1240
Mississippi Certification #: MN00064
Missouri Certification #: 10100
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081
New Jersey Certification #: MN002
New York Certification #: 11647
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification (A2LA) #: R-036
North Dakota Certification (MN) #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification (1700) #: CL101
Oklahoma Certification #: 9507
Oregon Primary Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Vermont Certification #: VT-027053137
Virginia Certification #: 460163
Washington Certification #: C486
West Virginia DEP Certification #: 382
West Virginia DW Certification #: 9952 C
Wisconsin Certification #: 999407970
Wyoming UST Certification via A2LA #: 2926.01
USDA Permit #: P330-19-00208

Pace Analytical Services Kansas

9608 Loiret Boulevard, Lenexa, KS 66219
Arkansas Certification #: 88-00679
Colorado Division of Oil and Public Safety
Illinois Certification #: 2000302023-6
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

REPORT OF LABORATORY ANALYSIS

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

SAMPLE SUMMARY

Project: TEC BASA New Compliance Wells-Revised Report
Pace Project No.: 60465554

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60465554001	**MW-11A-112624**	Water	11/26/24 09:05	11/27/24 13:25
60465554002	**MW-12-112624**	Water	11/26/24 10:00	11/27/24 13:25
60465554003	**MW-13-112624**	Water	11/26/24 11:25	11/27/24 13:25
60465554004	**MW-14-112624**	Water	11/26/24 12:15	11/27/24 13:25

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Lenexa, KS 66219
(913)599-5665

SAMPLE ANALYTE COUNT

Project: TEC BASA New Compliance Wells-Revised Report
Pace Project No.: 60465554

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60465554001	**MW-11A-112624**	EPA 200.7	IP	1	PASI-M
		EPA 200.8	GAS1, NN2	12	PASI-M
		EPA 6020B	NN2	1	PASI-M
		EPA 245.1	LMW	1	PASI-M
		SM 2540C	TML	1	PASI-K
		SM 4500-H+B	TML	1	PASI-K
		EPA 300.0	AAA	3	PASI-K
60465554002	**MW-12-112624**	EPA 200.8	DJM, NN2	13	PASI-M
		EPA 6020B	NN2	1	PASI-M
		EPA 245.1	LMW	1	PASI-M
		SM 2540C	TML	1	PASI-K
		SM 4500-H+B	TML	1	PASI-K
		EPA 300.0	AAA	3	PASI-K
60465554003	**MW-13-112624**	EPA 200.8	DJM, NN2	13	PASI-M
		EPA 6020B	NN2	1	PASI-M
		EPA 245.1	LMW	1	PASI-M
		SM 2540C	TML	1	PASI-K
		SM 4500-H+B	TML	1	PASI-K
		EPA 300.0	AAA	3	PASI-K
60465554004	**MW-14-112624**	EPA 200.8	DJM, NN2	13	PASI-M
		EPA 6020B	NN2	1	PASI-M
		EPA 245.1	LMW	1	PASI-M
		SM 2540C	TML	1	PASI-K
		SM 4500-H+B	TML	1	PASI-K
		EPA 300.0	AAA	3	PASI-K

PASI-K = Pace Analytical Services - Kansas City
PASI-M = Pace Analytical Services - Minneapolis

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

PROJECT NARRATIVE

Project: TEC BASA New Compliance Wells-Revised Report
Pace Project No.: 60465554

Method: **EPA 200.7**
Description: 200.7 MET ICP
Client: Evergy_Haley & Aldrich
Date: February 07, 2025

General Information:
1 sample was analyzed for EPA 200.7 by Pace Analytical Services Minneapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 200.7 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA New Compliance Wells-Revised Report
Pace Project No.: 60465554

Method: **EPA 200.8**
Description: 200.8 MET ICPMS
Client: Evergy_Haley & Aldrich
Date: February 07, 2025

General Information:
4 samples were analyzed for EPA 200.8 by Pace Analytical Services Minneapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 200.8 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA New Compliance Wells-Revised Report
Pace Project No.: 60465554

Method: **EPA 6020B**
Description: 6020B MET ICPMS
Client: Evergy_Haley & Aldrich
Date: February 07, 2025

General Information:
4 samples were analyzed for EPA 6020B by Pace Analytical Services Minneapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3020A with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA New Compliance Wells-Revised Report
Pace Project No.: 60465554

Method: **EPA 245.1**
Description: 245.1 Mercury
Client: Evergy_Haley & Aldrich
Date: February 07, 2025

General Information:
4 samples were analyzed for EPA 245.1 by Pace Analytical Services Minneapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 245.1 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA New Compliance Wells-Revised Report
Pace Project No.: 60465554

Method: **SM 2540C**
Description: 2540C Total Dissolved Solids
Client: Evergy_Haley & Aldrich
Date: February 07, 2025

General Information:
4 samples were analyzed for SM 2540C by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA New Compliance Wells-Revised Report
Pace Project No.: 60465554

Method: **SM 4500-H+B**
Description: 4500H+ pH, Electrometric
Client: Evergy_Haley & Aldrich
Date: February 07, 2025

General Information:
4 samples were analyzed for SM 4500-H+B by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

H6: Analysis initiated outside of the 15 minute EPA required holding time.
- MW-11A-112624 (Lab ID: 60465554001)
- MW-12-112624 (Lab ID: 60465554002)
- MW-13-112624 (Lab ID: 60465554003)
- MW-14-112624 (Lab ID: 60465554004)

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA New Compliance Wells-Revised Report
Pace Project No.: 60465554

Method: **EPA 300.0**
Description: 300.0 IC Anions 28 Days
Client: Evergy_Haley & Aldrich
Date: February 07, 2025

General Information:
4 samples were analyzed for EPA 300.0 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 919646

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60464699019,60465556006

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 3642730)
  - Fluoride
- MS (Lab ID: 3642733)
  - Fluoride
- MSD (Lab ID: 3642731)
  - Fluoride

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: TEC BASA New Compliance Wells-Revised Report
Pace Project No.: 60465554

Sample: MW-11A-112624 **Lab ID: 60465554001** Collected: 11/26/24 09:05 Received: 11/27/24 13:25 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Minneapolis								
Chromium, Total Recoverable	**0.0038J**	mg/L	0.010	0.00081	1	12/09/24 05:02	12/11/24 12:58	7440-47-3	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Minneapolis								
Antimony, Total Recoverable	**0.00012J**	mg/L	0.00050	0.000061	1	12/09/24 05:21	12/09/24 16:31	7440-36-0	
Arsenic, Total Recoverable	**0.0043**	mg/L	0.00050	0.00013	1	12/09/24 05:21	12/09/24 16:31	7440-38-2	
Barium, Total Recoverable	**0.042**	mg/L	0.00030	0.000090	1	01/29/25 10:45	01/30/25 11:45	7440-39-3	
Beryllium, Total Recoverable	**0.000063J**	mg/L	0.00020	0.000040	1	01/29/25 10:45	01/30/25 11:45	7440-41-7	
Boron, Total Recoverable	**0.37**	mg/L	0.010	0.0023	1	01/29/25 10:45	02/03/25 13:01	7440-42-8	
Cadmium, Total Recoverable	**0.000090**	mg/L	0.000080	0.000037	1	12/09/24 05:21	12/09/24 16:31	7440-43-9	
Calcium, Total Recoverable	**241**	mg/L	2.0	0.54	20	01/29/25 10:45	01/30/25 11:49	7440-70-2	
Cobalt, Total Recoverable	**0.010**	mg/L	0.00050	0.000040	1	12/09/24 05:21	12/09/24 16:31	7440-48-4	
Lead, Total Recoverable	**0.0013**	mg/L	0.00050	0.000065	1	01/29/25 10:45	01/30/25 11:45	7439-92-1	
Molybdenum, Total Recoverable	**0.0022**	mg/L	0.00050	0.00011	1	12/09/24 05:21	12/09/24 16:31	7439-98-7	
Selenium, Total Recoverable	**0.00019J**	mg/L	0.00050	0.000061	1	12/09/24 05:21	12/09/24 16:31	7782-49-2	
Thallium, Total Recoverable	**0.000071J**	mg/L	0.00010	0.000027	1	12/09/24 05:21	12/09/24 16:31	7440-28-0	
6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3020A Pace Analytical Services - Minneapolis								
Lithium	**0.033**	mg/L	0.00050	0.00020	1	12/09/24 05:21	12/09/24 16:31	7439-93-2	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Minneapolis								
Mercury	**<0.000074**	mg/L	0.00020	0.000074	1	12/04/24 17:05	12/05/24 10:39	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City								
Total Dissolved Solids	**1610**	mg/L	66.7	66.7	1		12/02/24 14:51		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Kansas City								
pH at 25 Degrees C	**6.9**	Std. Units	0.10	0.10	1		12/12/24 15:00		H6
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City								
Chloride	**569**	mg/L	100	52.7	100		12/15/24 07:43	16887-00-6	
Fluoride	**0.36**	mg/L	0.20	0.12	1		12/15/24 07:18	16984-48-8	IC
Sulfate	**341**	mg/L	20.0	11.0	20		12/15/24 07:30	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TEC BASA New Compliance Wells-Revised Report
Pace Project No.: 60465554

Sample: MW-12-112624 **Lab ID: 60465554002** Collected: 11/26/24 10:00 Received: 11/27/24 13:25 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 - Minneapolis								
Antimony, Total Recoverable	**0.000092J**	mg/L	0.00050	0.000061	1	12/09/24 05:21	12/09/24 16:59	7440-36-0	
Arsenic, Total Recoverable	**0.014**	mg/L	0.00050	0.00013	1	12/09/24 05:21	12/09/24 16:59	7440-38-2	
Barium, Total Recoverable	**0.093**	mg/L	0.00030	0.000090	1	01/31/25 06:23	01/31/25 13:06	7440-39-3	
Beryllium, Total Recoverable	**0.00015J**	mg/L	0.00020	0.000040	1	01/31/25 06:23	01/31/25 13:06	7440-41-7	
Boron, Total Recoverable	**0.47**	mg/L	0.20	0.045	20	01/31/25 06:23	01/31/25 13:12	7440-42-8	
Cadmium, Total Recoverable	**0.00016**	mg/L	0.000080	0.000037	1	12/09/24 05:21	12/09/24 16:59	7440-43-9	
Calcium, Total Recoverable	**219**	mg/L	2.0	0.54	20	01/31/25 06:23	01/31/25 13:12	7440-70-2	
Chromium, Total Recoverable	**0.0036**	mg/L	0.0020	0.00050	1	01/31/25 06:23	01/31/25 13:06	7440-47-3	
Cobalt, Total Recoverable	**0.033**	mg/L	0.00050	0.000040	1	12/09/24 05:21	12/09/24 16:59	7440-48-4	
Lead, Total Recoverable	**0.0016**	mg/L	0.00050	0.000065	1	01/31/25 06:23	01/31/25 13:06	7439-92-1	
Molybdenum, Total Recoverable	**0.0050**	mg/L	0.00050	0.00011	1	12/09/24 05:21	12/09/24 16:59	7439-98-7	
Selenium, Total Recoverable	**0.00020J**	mg/L	0.00050	0.000061	1	12/09/24 05:21	12/09/24 16:59	7782-49-2	
Thallium, Total Recoverable	**<0.000027**	mg/L	0.00010	0.000027	1	12/09/24 05:21	12/09/24 16:59	7440-28-0	
6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3020A Pace Analytical Services - Minneapolis								
Lithium	**0.031**	mg/L	0.00050	0.00020	1	12/09/24 05:21	12/09/24 16:59	7439-93-2	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Minneapolis								
Mercury	**<0.000074**	mg/L	0.00020	0.000074	1	12/04/24 17:05	12/05/24 10:44	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City								
Total Dissolved Solids	**1540**	mg/L	66.7	66.7	1		12/02/24 14:51		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Kansas City								
pH at 25 Degrees C	**7.0**	Std. Units	0.10	0.10	1		12/12/24 15:04		H6
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City								
Chloride	**419**	mg/L	100	52.7	100		12/15/24 08:48	16887-00-6	
Fluoride	**0.42**	mg/L	0.20	0.12	1		12/15/24 07:56	16984-48-8	IC
Sulfate	**340**	mg/L	20.0	11.0	20		12/15/24 08:35	14808-79-8	

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ANALYTICAL RESULTS

Project: TEC BASA New Compliance Wells-Revised Report
Pace Project No.: 60465554

Sample: MW-13-112624 **Lab ID: 60465554003** Collected: 11/26/24 11:25 Received: 11/27/24 13:25 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 - Minneapolis								
Antimony, Total Recoverable	**0.00018J**	mg/L	0.00050	0.000061	1	12/09/24 05:21	12/09/24 16:37	7440-36-0	
Arsenic, Total Recoverable	**0.0077**	mg/L	0.00050	0.00013	1	12/09/24 05:21	12/09/24 16:37	7440-38-2	
Barium, Total Recoverable	**0.096**	mg/L	0.00030	0.000090	1	01/31/25 06:23	01/31/25 13:25	7440-39-3	
Beryllium, Total Recoverable	**0.00030**	mg/L	0.00020	0.000040	1	01/31/25 06:23	01/31/25 13:25	7440-41-7	
Boron, Total Recoverable	**1.2**	mg/L	0.20	0.045	20	01/31/25 06:23	01/31/25 13:28	7440-42-8	
Cadmium, Total Recoverable	**0.000046J**	mg/L	0.000080	0.000037	1	12/09/24 05:21	12/09/24 16:37	7440-43-9	
Calcium, Total Recoverable	**219**	mg/L	2.0	0.54	20	01/31/25 06:23	01/31/25 13:28	7440-70-2	
Chromium, Total Recoverable	**0.0091**	mg/L	0.0020	0.00050	1	01/31/25 06:23	01/31/25 13:25	7440-47-3	
Cobalt, Total Recoverable	**0.0026**	mg/L	0.00050	0.000040	1	12/09/24 05:21	12/09/24 16:37	7440-48-4	
Lead, Total Recoverable	**0.0022**	mg/L	0.00050	0.000065	1	01/31/25 06:23	01/31/25 13:25	7439-92-1	
Molybdenum, Total Recoverable	**0.036**	mg/L	0.00050	0.00011	1	12/09/24 05:21	12/09/24 16:37	7439-98-7	
Selenium, Total Recoverable	**0.0020**	mg/L	0.00050	0.000061	1	12/09/24 05:21	12/09/24 16:37	7782-49-2	
Thallium, Total Recoverable	**0.000056J**	mg/L	0.00010	0.000027	1	12/09/24 05:21	12/09/24 16:37	7440-28-0	
6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3020A Pace Analytical Services - Minneapolis								
Lithium	**0.018**	mg/L	0.00050	0.00020	1	12/09/24 05:21	12/09/24 16:37	7439-93-2	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Minneapolis								
Mercury	**<0.000074**	mg/L	0.00020	0.000074	1	12/04/24 17:05	12/05/24 10:45	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City								
Total Dissolved Solids	**1450**	mg/L	40.0	40.0	1		12/02/24 14:51		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Kansas City								
pH at 25 Degrees C	**6.9**	Std. Units	0.10	0.10	1		12/12/24 15:12		H6
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City								
Chloride	**246**	mg/L	20.0	10.5	20		12/17/24 12:39	16887-00-6	
Fluoride	**<0.12**	mg/L	0.20	0.12	1		12/17/24 12:25	16984-48-8	
Sulfate	**695**	mg/L	100	55.0	100		12/17/24 12:53	14808-79-8	

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ANALYTICAL RESULTS

Project: TEC BASA New Compliance Wells-Revised Report
Pace Project No.: 60465554

Sample: MW-14-112624 **Lab ID: 60465554004** Collected: 11/26/24 12:15 Received: 11/27/24 13:25 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 - Minneapolis								
Antimony, Total Recoverable	**0.00016J**	mg/L	0.00050	0.000061	1	12/09/24 05:21	12/09/24 16:42	7440-36-0	
Arsenic, Total Recoverable	**0.0011**	mg/L	0.00050	0.00013	1	12/09/24 05:21	12/09/24 16:42	7440-38-2	
Barium, Total Recoverable	**0.031**	mg/L	0.00030	0.000090	1	01/31/25 06:23	01/31/25 13:31	7440-39-3	
Beryllium, Total Recoverable	**0.000054J**	mg/L	0.00020	0.000040	1	01/31/25 06:23	01/31/25 13:31	7440-41-7	
Boron, Total Recoverable	**1.0**	mg/L	0.20	0.045	20	01/31/25 06:23	01/31/25 13:34	7440-42-8	
Cadmium, Total Recoverable	**<0.000037**	mg/L	0.000080	0.000037	1	12/09/24 05:21	12/09/24 16:42	7440-43-9	
Calcium, Total Recoverable	**207**	mg/L	2.0	0.54	20	01/31/25 06:23	01/31/25 13:34	7440-70-2	
Chromium, Total Recoverable	**0.0012J**	mg/L	0.0020	0.00050	1	01/31/25 06:23	01/31/25 13:31	7440-47-3	
Cobalt, Total Recoverable	**0.00055**	mg/L	0.00050	0.000040	1	12/09/24 05:21	12/09/24 16:42	7440-48-4	
Lead, Total Recoverable	**0.00019J**	mg/L	0.00050	0.000065	1	01/31/25 06:23	01/31/25 13:31	7439-92-1	
Molybdenum, Total Recoverable	**0.022**	mg/L	0.00050	0.00011	1	12/09/24 05:21	12/09/24 16:42	7439-98-7	
Selenium, Total Recoverable	**0.0022**	mg/L	0.00050	0.000061	1	12/09/24 05:21	12/09/24 16:42	7782-49-2	
Thallium, Total Recoverable	**0.000037J**	mg/L	0.00010	0.000027	1	12/09/24 05:21	12/09/24 16:42	7440-28-0	
6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3020A Pace Analytical Services - Minneapolis								
Lithium	**0.026**	mg/L	0.00050	0.00020	1	12/09/24 05:21	12/09/24 16:42	7439-93-2	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Minneapolis								
Mercury	**<0.000074**	mg/L	0.00020	0.000074	1	12/04/24 17:05	12/05/24 10:46	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City								
Total Dissolved Solids	**1400**	mg/L	40.0	40.0	1		12/03/24 12:14		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Kansas City								
pH at 25 Degrees C	**7.1**	Std. Units	0.10	0.10	1		12/12/24 15:14		H6
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City								
Chloride	**261**	mg/L	20.0	10.5	20		12/17/24 13:20	16887-00-6	
Fluoride	**<0.12**	mg/L	0.20	0.12	1		12/17/24 13:07	16984-48-8	
Sulfate	**544**	mg/L	100	55.0	100		12/17/24 13:34	14808-79-8	

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QUALITY CONTROL DATA

Project: TEC BASA New Compliance Wells-Revised Report
Pace Project No.: 60465554

QC Batch: 982834
QC Batch Method: EPA 245.1
Analysis Method: EPA 245.1
Analysis Description: 245.1 Mercury
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 60465554001, 60465554002, 60465554003, 60465554004

METHOD BLANK: 5134604 Matrix: Water
Associated Lab Samples: 60465554001, 60465554002, 60465554003, 60465554004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	<0.000074	0.00020	0.000074	12/05/24 10:36	

LABORATORY CONTROL SAMPLE: 5134605

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.005	0.0050	101	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5134606 5134607

Parameter	Units	60465554001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	<0.000074	0.005	0.005	0.0048	0.0049	97	97	70-130	0	20	

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QUALITY CONTROL DATA

Project: TEC BASA New Compliance Wells-Revised Report
Pace Project No.: 60465554

QC Batch: 982896
QC Batch Method: EPA 200.7
Analysis Method: EPA 200.7
Analysis Description: 200.7 MET
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 60465554001

METHOD BLANK: 5135044 Matrix: Water
Associated Lab Samples: 60465554001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chromium	mg/L	<0.00081	0.010	0.00081	12/11/24 12:55	

LABORATORY CONTROL SAMPLE: 5135045

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium	mg/L	1	0.97	97	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5135046 5135047

Parameter	Units	60465554001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chromium	mg/L	0.0038J	1	1	0.98	1.0	98	100	70-130	2	20	

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QUALITY CONTROL DATA

Project: TEC BASA New Compliance Wells-Revised Report
Pace Project No.: 60465554

QC Batch: 983380
QC Batch Method: EPA 200.8
Analysis Method: EPA 200.8
Analysis Description: 200.8 MET
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 60465554001, 60465554002, 60465554003, 60465554004

METHOD BLANK: 5137707 Matrix: Water
Associated Lab Samples: 60465554001, 60465554002, 60465554003, 60465554004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	<0.000061	0.00050	0.000061	12/09/24 16:25	
Arsenic	mg/L	<0.00013	0.00050	0.00013	12/09/24 16:25	
Cadmium	mg/L	<0.000037	0.000080	0.000037	12/09/24 16:25	
Cobalt	mg/L	<0.000040	0.00050	0.000040	12/09/24 16:25	
Molybdenum	mg/L	<0.00011	0.00050	0.00011	12/09/24 16:25	
Selenium	mg/L	<0.000061	0.00050	0.000061	12/09/24 16:25	
Thallium	mg/L	<0.000027	0.00010	0.000027	12/09/24 16:25	

LABORATORY CONTROL SAMPLE: 5137708

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	112	85-115	
Arsenic	mg/L	0.1	0.11	112	85-115	
Cadmium	mg/L	0.1	0.11	113	85-115	
Cobalt	mg/L	0.1	0.11	113	85-115	
Molybdenum	mg/L	0.1	0.11	109	85-115	
Selenium	mg/L	0.1	0.11	111	85-115	
Thallium	mg/L	0.1	0.11	108	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5137709 5137710

Parameter	Units	60465554002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	0.000092J	0.1	0.1	0.11	0.11	112	109	70-130	2	20	
Arsenic	mg/L	0.014	0.1	0.1	0.13	0.13	114	112	70-130	2	20	
Cadmium	mg/L	0.00016	0.1	0.1	0.11	0.11	110	107	70-130	2	20	
Cobalt	mg/L	0.033	0.1	0.1	0.15	0.14	112	109	70-130	2	20	
Molybdenum	mg/L	0.0050	0.1	0.1	0.12	0.12	115	114	70-130	0	20	
Selenium	mg/L	0.00020J	0.1	0.1	0.11	0.11	110	105	70-130	5	20	
Thallium	mg/L	<0.000027	0.1	0.1	0.11	0.11	110	106	70-130	3	20	

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QUALITY CONTROL DATA

Project: TEC BASA New Compliance Wells-Revised Report
Pace Project No.: 60465554

QC Batch: 990023
QC Batch Method: EPA 200.8
Analysis Method: EPA 200.8
Analysis Description: 200.8 MET
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 60465554001

METHOD BLANK: 5168172 Matrix: Water
Associated Lab Samples: 60465554001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Barium	mg/L	<0.000090	0.00030	0.000090	01/30/25 12:17	
Beryllium	mg/L	<0.000040	0.00020	0.000040	01/30/25 12:17	
Boron	mg/L	0.0035J	0.010	0.0023	01/30/25 12:17	
Calcium	mg/L	<0.027	0.10	0.027	01/30/25 12:17	
Lead	mg/L	<0.000065	0.00050	0.000065	01/30/25 12:17	

LABORATORY CONTROL SAMPLE: 5168173

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	mg/L	0.1	0.11	105	85-115	
Beryllium	mg/L	0.1	0.11	112	85-115	
Boron	mg/L	0.1	0.11	106	85-115	
Calcium	mg/L	2	2.1	107	85-115	
Lead	mg/L	0.1	0.11	108	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5168174 5168175

Parameter	Units	10722667001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	mg/L	30.6 ug/L	0.1	0.1	0.13	0.14	104	108	70-130	3	20	
Beryllium	mg/L	ND	0.1	0.1	0.11	0.10	105	105	70-130	0	20	
Boron	mg/L	1150 ug/L	0.1	0.1	1.3	1.3	188	143	70-130	3	20	P6
Calcium	mg/L	209000 ug/L	2	2	210	222	67	649	70-130	5	20	P6
Lead	mg/L	ND	0.1	0.1	0.10	0.10	103	105	70-130	2	20	

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QUALITY CONTROL DATA

Project: TEC BASA New Compliance Wells-Revised Report
Pace Project No.: 60465554

QC Batch: 990341
QC Batch Method: EPA 200.8
Analysis Method: EPA 200.8
Analysis Description: 200.8 MET
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 60465554002, 60465554003, 60465554004

METHOD BLANK: 5169312 Matrix: Water
Associated Lab Samples: 60465554002, 60465554003, 60465554004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Barium	mg/L	<0.000090	0.00030	0.000090	01/31/25 12:56	
Beryllium	mg/L	<0.000040	0.00020	0.000040	01/31/25 12:56	
Boron	mg/L	<0.0023	0.010	0.0023	01/31/25 12:56	
Calcium	mg/L	<0.027	0.10	0.027	01/31/25 12:56	
Chromium	mg/L	<0.00050	0.0020	0.00050	01/31/25 12:56	
Lead	mg/L	<0.000065	0.00050	0.000065	01/31/25 12:56	

LABORATORY CONTROL SAMPLE & LCSD: 5169313 5169689

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Barium	mg/L	0.1	0.11	0.10	107	104	85-115	3	20	
Beryllium	mg/L	0.1	0.11	0.11	110	110	85-115	0	20	
Boron	mg/L	0.1	0.11	0.11	109	109	85-115	0	20	
Calcium	mg/L	2	2.2	2.2	111	108	85-115	2	20	
Chromium	mg/L	0.1	0.11	0.11	111	110	85-115	2	20	
Lead	mg/L	0.1	0.11	0.11	106	106	85-115	1	20	

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QUALITY CONTROL DATA

Project: TEC BASA New Compliance Wells-Revised Report
Pace Project No.: 60465554

QC Batch: 982901
QC Batch Method: EPA 3020A
Analysis Method: EPA 6020B
Analysis Description: 6020B Water UPD5
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 60465554001, 60465554002, 60465554003, 60465554004

METHOD BLANK: 5135065 Matrix: Water
Associated Lab Samples: 60465554001, 60465554002, 60465554003, 60465554004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Lithium	mg/L	<0.00020	0.00050	0.00020	12/09/24 16:25	

LABORATORY CONTROL SAMPLE: 5135066

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lithium	mg/L	0.1	0.11	114	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5135068 5137870

Parameter	Units	60465554002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lithium	mg/L	0.031	0.1	0.1	0.14	0.13	109	103	75-125	4	20	

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QUALITY CONTROL DATA

Project: TEC BASA New Compliance Wells-Revised Report
Pace Project No.: 60465554

QC Batch: 918133
QC Batch Method: SM 2540C
Analysis Method: SM 2540C
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60465554001, 60465554002, 60465554003

METHOD BLANK: 3635822 Matrix: Water
Associated Lab Samples: 60465554001, 60465554002, 60465554003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<5.0	5.0	5.0	12/02/24 14:48	

LABORATORY CONTROL SAMPLE: 3635823

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	1000	1000	100	80-120	

SAMPLE DUPLICATE: 3635824

Parameter	Units	60465406001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	53.5	51.5	4	10	

SAMPLE DUPLICATE: 3635825

Parameter	Units	60465410003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1550	1510	3	10	

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QUALITY CONTROL DATA

Project: TEC BASA New Compliance Wells-Revised Report
Pace Project No.: 60465554

QC Batch: 918281
QC Batch Method: SM 2540C
Analysis Method: SM 2540C
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60465554004

METHOD BLANK: 3636317 Matrix: Water
Associated Lab Samples: 60465554004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<5.0	5.0	5.0	12/03/24 12:14	

LABORATORY CONTROL SAMPLE: 3636318

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	1000	998	100	80-120	

SAMPLE DUPLICATE: 3636319

Parameter	Units	60465554004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1400	1350	3	10	

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QUALITY CONTROL DATA

Project: TEC BASA New Compliance Wells-Revised Report
Pace Project No.: 60465554

QC Batch: 919273
QC Batch Method: SM 4500-H+B
Analysis Method: SM 4500-H+B
Analysis Description: 4500H+B pH
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60465554001, 60465554002, 60465554003, 60465554004

SAMPLE DUPLICATE: 3640663

Parameter	Units	60465425001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.9	8.1	2	5	H6

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QUALITY CONTROL DATA

Project: TEC BASA New Compliance Wells-Revised Report
Pace Project No.: 60465554

QC Batch: 919474
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: 60465554001, 60465554002

METHOD BLANK: 3641620 Matrix: Water
Associated Lab Samples: 60465554001, 60465554002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	<0.53	1.0	0.53	12/14/24 21:39	
Fluoride	mg/L	<0.12	0.20	0.12	12/14/24 21:39	IC
Sulfate	mg/L	<0.55	1.0	0.55	12/14/24 21:39	

LABORATORY CONTROL SAMPLE: 3641621

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	2.5	101	90-110	IC
Sulfate	mg/L	5	4.8	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3641622 3641623

Parameter	Units	60465425001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	397	500	500	848	847	90	90	80-120	0	15	
Fluoride	mg/L	ND	50	50	50.9	52.0	102	104	80-120	2	15	IC
Sulfate	mg/L	237	100	100	325	325	88	88	80-120	0	15	

MATRIX SPIKE SAMPLE: 3641624

Parameter	Units	60464699007 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	6.4	5	10.4	80	80-120	
Fluoride	mg/L	0.33	2.5	3.1	111	80-120	IC
Sulfate	mg/L	547	250	793	98	80-120	

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QUALITY CONTROL DATA

Project: TEC BASA New Compliance Wells-Revised Report
Pace Project No.: 60465554

QC Batch: 919646
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: 60465554003, 60465554004

METHOD BLANK: 3642728 Matrix: Water
Associated Lab Samples: 60465554003, 60465554004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	<0.53	1.0	0.53	12/17/24 09:35	
Fluoride	mg/L	<0.12	0.20	0.12	12/17/24 09:35	
Sulfate	mg/L	<0.55	1.0	0.55	12/17/24 09:35	

LABORATORY CONTROL SAMPLE: 3642729

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.6	92	90-110	
Fluoride	mg/L	2.5	2.4	97	90-110	
Sulfate	mg/L	5	5.3	106	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3642730 3642731

Parameter	Units	60464699019 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	10	5	5	14.0	14.0	81	80	80-120	0	15	
Fluoride	mg/L	<0.12	2.5	2.5	3.1	3.1	125	125	80-120	0	15	M1
Sulfate	mg/L	118	100	100	235	222	117	104	80-120	6	15	

MATRIX SPIKE SAMPLE: 3642733

Parameter	Units	60465556006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	25.9	100	113	87	80-120	
Fluoride	mg/L	<0.12	2.5	3.2	130	80-120	M1
Sulfate	mg/L	264	100	370	106	80-120	

SAMPLE DUPLICATE: 3642732

Parameter	Units	60464699019 Result	Dup Result	RPD	Max RPD	Qualifiers
Chloride	mg/L	10	10	0	15	
Fluoride	mg/L	<0.12	<0.12		15	
Sulfate	mg/L	118	117	1	15	

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QUALIFIERS

Project: TEC BASA New Compliance Wells-Revised Report
Pace Project No.: 60465554

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

H6	Analysis initiated outside of the 15 minute EPA required holding time.
IC	The initial calibration for this compound was outside of method control limits. The result is estimated.
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.

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: TEC BASA New Compliance Wells-Revised Report
Pace Project No.: 60465554

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60465554001	**MW-11A-112624**	EPA 200.7	982896	EPA 200.7	983546
60465554001	**MW-11A-112624**	EPA 200.8	983380	EPA 200.8	983586
60465554001	**MW-11A-112624**	EPA 200.8	990023	EPA 200.8	990218
60465554002	**MW-12-112624**	EPA 200.8	983380	EPA 200.8	983586
60465554002	**MW-12-112624**	EPA 200.8	990341	EPA 200.8	990489
60465554003	**MW-13-112624**	EPA 200.8	983380	EPA 200.8	983586
60465554003	**MW-13-112624**	EPA 200.8	990341	EPA 200.8	990489
60465554004	**MW-14-112624**	EPA 200.8	983380	EPA 200.8	983586
60465554004	**MW-14-112624**	EPA 200.8	990341	EPA 200.8	990489
60465554001	**MW-11A-112624**	EPA 3020A	982901	EPA 6020B	983587
60465554002	**MW-12-112624**	EPA 3020A	982901	EPA 6020B	983587
60465554003	**MW-13-112624**	EPA 3020A	982901	EPA 6020B	983587
60465554004	**MW-14-112624**	EPA 3020A	982901	EPA 6020B	983587
60465554001	**MW-11A-112624**	EPA 245.1	982834	EPA 245.1	982973
60465554002	**MW-12-112624**	EPA 245.1	982834	EPA 245.1	982973
60465554003	**MW-13-112624**	EPA 245.1	982834	EPA 245.1	982973
60465554004	**MW-14-112624**	EPA 245.1	982834	EPA 245.1	982973
60465554001	**MW-11A-112624**	SM 2540C	918133		
60465554002	**MW-12-112624**	SM 2540C	918133		
60465554003	**MW-13-112624**	SM 2540C	918133		
60465554004	**MW-14-112624**	SM 2540C	918281		
60465554001	**MW-11A-112624**	SM 4500-H+B	919273		
60465554002	**MW-12-112624**	SM 4500-H+B	919273		
60465554003	**MW-13-112624**	SM 4500-H+B	919273		
60465554004	**MW-14-112624**	SM 4500-H+B	919273		
60465554001	**MW-11A-112624**	EPA 300.0	919474		
60465554002	**MW-12-112624**	EPA 300.0	919474		
60465554003	**MW-13-112624**	EPA 300.0	919646		
60465554004	**MW-14-112624**	EPA 300.0	919646		

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WO# : 60465554

60465554

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

Client Name: Evergy KS central

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-298 **Type of Ice:** (Wet) Blue None

Cooler Temperature (°C): **As-read** 2.5 **Corr. Factor** 0.1 **Corrected** 2.4

Date and initials of person examining contents: KH 11/27

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#: 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: _____

Qualtrax Document ID: 30468

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

60465554

Scan QR Code for instructions

Company Name:	Evergy Kansas Central, Inc.	Contact/Report To:	Jake Humphrey
Street Address:	818 S Kansas Avenue, Topeka, KS 66612	Phone #:	(913)634-0605
		E-Mail:	jake.humphrey@evergy.com
		Cc E-Mail:	skaney@haleyaldrich.com
Customer Project #:			
Project Name:	TEC BASA NEW WELLS	Invoice To:	Tecumseh Center
		Invoice E-Mail:	evergyap@onlinecapturecenter.com
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	WSTR-2000018660
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [X] CT [ ] ET

County / State origin of sample(s): Kansas

Data Deliverables:
[ ] Level II [ ] Level III [ ] Level IV
[ ] EQUIS
[ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [ ] Yes [X] No

Rush (Pre-approval required):
[ ] Same Day [ ] 1 Day [ ] 2 Day [ ] 3 Day [ ] Other _____

DW PWSID # or WW Permit # as applicable:

Date Results Requested: Std

Field Filtered (if applicable): [ ] Yes [X] 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	200.7 /200.8 / 245.1/6010	2540C Total Dissolved Solids	300.0 IC Cl,F,SO4	4500H+ pH, Electrometric	Sample Comment
										Specify Container Size **				
										3	1	3	3	
										Identify Container Preservative Type***				
										2	1	1	1	
MW-11A-112624	GW	Grab	-	-	11/26/2024	905	4	-	-	X	X	X	X	
MW-12-112624	GW	Grab	-	-	11/26/2024	1000	4	-	-	X	X	X	X	
MW-13-112624	GW	Grab	-	-	11/26/2024	1125	4	-	-	X	X	X	X	
MW-14-112624	GW	Grab	-	-	11/26/2024	1215	4	-	-	X	X	X	X	

**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

Lab Use Only
Proj. Mgr: Alice Spiller
AcctNum / Client ID:
Table #:
Profile / Template: 16502
Prelog / Bottle Ord. ID: EZ 3150913

Preservation non-conformance identified for sample.

Additional Instructions from Pace®:
200.7 B,Ca,Ba,Be,Cr,Pb
200.8 Sb,As,Cd,Co,Mo,Se,Tl
6010 Li / 245.1 Hg

Collected By:
(Printed Name): Matt VanderPutten
Signature: Matt VanderPutten

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)	On Ice:
1	T-298	0.1	2.5	2.6	Y

Relinquished by/Company: (Signature) Matt VanderPutten / SCS	Date/Time: 11/27/24 / 1315 ~~1400~~	Received by/Company: (Signature)	Date/Time: 11/27/24 1325	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 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: Evergy KS Central Profile/EZ#: 3150913

Site: TEC BASA New Wells 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	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: **WO#: 60465554**

PM: AS Due Date: 12/13/24

CLIENT: Evergy_Haley

Internal Transfer Chain of Custody

Pace

☐ Rush Multiplier_____X
☐ Samples Pre-Logged into eCOC

State Of Origin: KS
Cert. Needed: ☒ Yes ☐ No

Workorder: 60465554 **Workorder Name:** TEC BASA New Compliance Wells

Owner Received Date: 11/27/2024 **Results Requested By:** 12/13/2024

Report To	Subcontract To
Alice Spiller Pace Analytical Kansas 9608 Loiret Blvd. Lenexa, KS 66219 Phone (913)599-5665	Pace Analytical Minnesota 1700 Elm Street Suite 200 Minneapolis, MN 55414 Phone (612)607-1700

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers: HNO3						Requested Analysis: 200.7 B,Ca,Ba,Be,Cr,Pb	200.8 Sb,As,Cd,Co,Mo,Se,Tl	245.1 Mercury	6010 Lithium									LAB USE ONLY
1	MW-11A-112624	PS	11/26/2024 09:05	60465554001	Water	1						X	X	X	X									001
2	MW-12-112624	PS	11/26/2024 10:00	60465554002	Water	1						X	X	X	X									002
3	MW-13-112624	PS	11/26/2024 11:25	60465554003	Water	1						X	X	X	X									003
4	MW-14-112624	PS	11/26/2024 12:15	60465554004	Water	1						X	X	X	X									004
5																								

Transfers	Released By	Date/Time	Received By	Date/Time
1			[illegible] Pace	12-3-24 850
2				
3				

Comments

KS sample location: 60MP-R3-S6B2

Cooler Temperature on Receipt 4.7 °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# : 10717408

10717408

ENV-FRM-MIN4-0150 v17_Sample Condition Upon Receipt

CLIENT NAME: Pace Kansas **PROJECT #:** **WO#: 10717408**

PM: Y01 **Due Date: 12/13/24**

CLIENT: PASI-KANS

COURIER: ☐ Client ☐ Commercial ☑ FedEx ☐ Pace ☐ SpeeDee ☐ UPS ☐ USPS

TRACKING NUMBER: 403364534859 ☐ See Exceptions form ENV-FRM-MIN4-0142

Custody Seal on Cooler/Box Present: ☐ YES ☑ NO **Seals Intact:** ☐ YES ☑ NO **Biological Tissue Frozen:** ☐ YES ☐ NO ☑ N/A

Packing Material: ☐ Bubble Bags ☐ Bubble Wrap ☑ None ☐ Other **Temp Blank:** ☐ YES ☑ NO **Type of Ice:** ☐ Blue ☐ Dry ☑ Wet ☐ Melted ☐ None

Thermometer: ☑ T1 (0461) ☐ T2 (0436) ☐ T3 (0459) ☐ T4 (0402) ☐ T5 (0178) ☐ T6 (0235) ☐ T7 (0042) ☐ T8 (0775) ☐ T9 (0727) ☐ 01339252 (1710)

Did Samples Originate in West Virginia: ☐ YES ☑ NO	**Were All Container Temps taken:** ☐ YES ☐ NO ☑ N/A
Correction Factor: +0.3 **Cooler Temp Read w/Temp Blank:** _____ °C **Cooler Temp Corrected w/Temp Blank:** _____ °C	**Average Corrected Temp (no Temp Blank Only):** 4.7 °C
***NOTE:** Temp should be above freezing to 6°C.*	☐ See Exceptions Form ENV-FRM-MIN4-0142 ☐ 1 Container
USDA Regulated Soil: ☑ N/A (Water Sample/Other (describe): _____	**Initials & Date of Person Examining Contents:** EC 12-3-24
Did Samples originate from one of the following states (check maps) – AL, AR, AZ, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA: ☐ YES ☐ NO	Did samples originate from a foreign source (international, including Hawaii and Puerto Rico): ☐ YES ☐ NO
NOTE: If YES to either question, fill out a Regulated Soil Checklist (ENV-FRM-MIN4-0154) and include with SCUR/COC paperwork.	

LOCATION (check one): ☐ DULUTH ☑ MINNEAPOLIS ☐ VIRGINIA	YES	NO	N/A	COMMENT(S)
Chain of Custody Present and Filled Out?	☑	☐		1.
Chain of Custody Relinquished?	☑	☐		2.
Sampler Name and/or Signature on COC?	☐	☐	☑	3.
Samples Arrived within Hold Time?	☑	☐		4. If Fecal: ☐ <8 hrs ☐ >8 hr, <24 hr ☐ No
Short Hold Time Analysis (<72 hr)?	☐	☑		5. ☐ BOD / cBOD ☐ Fecal coliform ☐ Hex Chrom ☐ HPC ☐ Nitrate ☐ Nitrite ☐ Ortho Phos ☐ Total coliform/*E. coli* ☐ Other:
Rush Turn Around Time Requested?	☐	☑		6.
Sufficient Sample Volume?	☑	☐		7.
Correct Containers Used? – Pace Containers Used?	☑ ☑	☐ ☐	☐	8.
Containers Intact?	☑	☐		9.
Field Filtered Volume Received for Dissolved Tests?	☐	☑	☐	10. Is sediment visible in the dissolved container: ☐ YES ☐ NO
Is sufficient information available to reconcile the samples to the COC? **NOTE:** If ID/Date/Time don't match fill out section 11. Matrix: ☐ Oil ☐ Soil ☑ Water ☐ Other	☑	☐		11. **If NO, write ID/Date/Time of container below:** ☐ See Exceptions form ENV-FRM-MIN4-0142
All containers needing acid/base preservation have been checked? All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, < 2 pH, NaOH > 9 Sulfide, NaOH > 10 Cyanide) Exceptions: VOA, Coliform, TOC/DOC, Oil & Grease, DRO/8015 (water) and Dioxins/PFAS **NOTE:** If adding preservation to the container, **verify with the PM first.** Clients may require adding preservative to the field and equipment blanks when this occurs.	☑ ☑ ☐	☐ ☐ ☐	☐ ☐ ☑	12. Sample #: 001-004 ☑ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ Zinc Acetate Positive for Residual Chlorine: ☐ YES ☐ NO **pH Paper Lot #** (Residual Chlorine / 0-6 Roll: 205-224 / 0-6 Strip / 0-14 Strip) ☐ See Exceptions form ENV-FRM-MIN4-0142
Headspace in Methyl Mercury Container?	☐	☐	☑	13.
Extra labels present on soil VOA or WIDRO containers? Headspace in VOA Vials (greater than 6mm)?	☐ ☐	☐ ☐	☑ ☑	14. ☐ See Exceptions form ENV-FRM-MIN4-0140
Trip Blanks Present? Trip Blank Custody Seals Present?	☐ ☐	☐ ☐	☑ ☑	15. Pace Trip Blank Lot # (if purchased):

CLIENT NOTIFICATION / RESOLUTION **FIELD DATA REQUIRED:** ☐ YES ☐ NO

Person Contacted: _____ Date & Time: _____

Comments / Resolution: _____

Project Manager Review: Yeng Ozawa **Date:** 12/4/24

***NOTE:** When there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEQ Certification Office (i.e., out of hold, incorrect preservative, out of temp, incorrect containers).*

Labeled By: EC **Line:** 2

Workorder #: _____

No Temp Blank		
Read Temp	Corrected Temp	Average temp
4.7	4.0	4.7
4.2	4.5	
4.5	4.8	
4.0	4.3	

PM Notified of Out of Temp Cooler? ☐ YES ☐ NO
If yes, indicate who was contacted, date and time. If no, indicate reason why.
Multiple Cooler Project? ☐ YES ☐ NO

If anything is OVER 6.0°C, you MUST document containers in this section HERE

Tracking Number	Temperature

Out of Temp Sample ID	Container Type	# of Containers

pH Adjustment Log for Preserved Samples										
Sample ID	Type Of Preserve	pH Upon Receipt	Date Adjusted	Time Adjusted	Amount Added (mL)	Lot # Added	pH After	In Compliance After Addition? YES	In Compliance After Addition? NO	Initials
								☐	☐	
								☐	☐	
								☐	☐	
								☐	☐	
								☐	☐	
								☐	☐	
								☐	☐	
								☐	☐	

Comments:

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

December 23, 2024

Jake Humphrey
Evergy, Inc.
818 S Kansas Avenue
Topeka, KS 66612

RE: Project: TEC BASA New Compliance Wells
Pace Project No.: 60465555

Dear Jake Humphrey:

Enclosed are the analytical results for sample(s) received by the laboratory on November 27, 2024. 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 - Greensburg

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

Sincerely,

Alice Spiller

Alice Spiller
alice.spiller@pacelabs.com
(913)599-5665
PM Lab Management

Enclosures

cc: Heath Horyna, Evergy, Inc.
Samantha Kaney, Haley & Aldrich
Melanie Satanek, Haley & Aldrich, Inc.
Adriana Sosa, Haley & Aldrich, Inc.
Nick Williams, Haley Aldrich

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

CERTIFICATIONS

Project: TEC BASA New Compliance Wells
Pace Project No.: 60465555

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

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Lenexa, KS 66219
(913)599-5665

SAMPLE SUMMARY

Project: TEC BASA New Compliance Wells
Pace Project No.: 60465555

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60465555001	**MW-11A-112624**	Water	11/26/24 09:05	11/27/24 13:25
60465555002	**MW-12-112624**	Water	11/26/24 10:00	11/27/24 13:25
60465555003	**MW-13-112624**	Water	11/26/24 11:25	11/27/24 13:25
60465555004	**MW-14-112624**	Water	11/26/24 12:15	11/27/24 13:25

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SAMPLE ANALYTE COUNT

Project: TEC BASA New Compliance Wells
Pace Project No.: 60465555

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60465555001	**MW-11A-112624**	EPA 903.1	REH1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
60465555002	**MW-12-112624**	EPA 903.1	REH1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
60465555003	**MW-13-112624**	EPA 903.1	REH1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
60465555004	**MW-14-112624**	EPA 903.1	REH1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

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PROJECT NARRATIVE

Project: TEC BASA New Compliance Wells
Pace Project No.: 60465555

Method: **EPA 903.1**
Description: 903.1 Radium 226
Client: Evergy_Haley & Aldrich
Date: December 23, 2024

General Information:
4 samples were analyzed for EPA 903.1 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA New Compliance Wells
Pace Project No.: 60465555

Method: **EPA 904.0**
Description: 904.0 Radium 228
Client: Evergy_Haley & Aldrich
Date: December 23, 2024

General Information:
4 samples were analyzed for EPA 904.0 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA New Compliance Wells
Pace Project No.: 60465555

Method: **Total Radium Calculation**
Description: Total Radium 228+226
Client: Evergy_Haley & Aldrich
Date: December 23, 2024

General Information:
4 samples were analyzed for Total Radium Calculation by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: TEC BASA New Compliance Wells
Pace Project No.: 60465555

Sample: MW-11A-112624 **Lab ID: 60465555001** Collected: 11/26/24 09:05 Received: 11/27/24 13:25 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	**0.125 ± 0.714 (1.33) C:NA T:89%**	pCi/L	12/19/24 13:46	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**1.71 ± 0.558 (0.709) C:73% T:86%**	pCi/L	12/18/24 14:44	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.84 ± 1.27 (2.04)**	pCi/L	12/20/24 13:25	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: TEC BASA New Compliance Wells
Pace Project No.: 60465555

Sample: MW-12-112624 **Lab ID: 60465555002** Collected: 11/26/24 10:00 Received: 11/27/24 13:25 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	**0.228 ± 0.495 (0.914) C:NA T:83%**	pCi/L	12/19/24 13:46	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**1.22 ± 0.448 (0.632) C:77% T:90%**	pCi/L	12/18/24 14:44	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.45 ± 0.943 (1.55)**	pCi/L	12/20/24 13:25	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: TEC BASA New Compliance Wells
Pace Project No.: 60465555

Sample: MW-13-112624 **Lab ID: 60465555003** Collected: 11/26/24 11:25 Received: 11/27/24 13:25 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	**0.368 ± 0.482 (0.803) C:NA T:91%**	pCi/L	12/19/24 13:46	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.718 ± 0.385 (0.680) C:74% T:92%**	pCi/L	12/18/24 14:44	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.09 ± 0.867 (1.48)**	pCi/L	12/20/24 13:25	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: TEC BASA New Compliance Wells
Pace Project No.: 60465555

Sample: MW-14-112624 **Lab ID: 60465555004** Collected: 11/26/24 12:15 Received: 11/27/24 13:25 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	**0.542 ± 0.622 (1.02) C:NA T:94%**	pCi/L	12/19/24 13:46	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**1.79 ± 0.600 (0.866) C:80% T:91%**	pCi/L	12/18/24 14:44	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**2.33 ± 1.22 (1.89)**	pCi/L	12/20/24 13:25	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: TEC BASA New Compliance Wells
Pace Project No.: 60465555

QC Batch: 713479
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: 60465555001, 60465555002, 60465555003, 60465555004

METHOD BLANK: 3475038 Matrix: Water
Associated Lab Samples: 60465555001, 60465555002, 60465555003, 60465555004

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	-0.0440 ± 0.201 (0.474) C:NA T:91%	pCi/L	12/19/24 13:32	

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.

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QUALITY CONTROL - RADIOCHEMISTRY

Project: TEC BASA New Compliance Wells
Pace Project No.: 60465555

QC Batch: 713480
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: 60465555001, 60465555002, 60465555003, 60465555004

METHOD BLANK: 3475040 Matrix: Water
Associated Lab Samples: 60465555001, 60465555002, 60465555003, 60465555004

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.798 ± 0.390 (0.654) C:73% T:90%	pCi/L	12/18/24 14:43	

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.

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QUALIFIERS

Project: TEC BASA New Compliance Wells
Pace Project No.: 60465555

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.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: TEC BASA New Compliance Wells
Pace Project No.: 60465555

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60465555001	**MW-11A-112624**	EPA 903.1	713479		
60465555002	**MW-12-112624**	EPA 903.1	713479		
60465555003	**MW-13-112624**	EPA 903.1	713479		
60465555004	**MW-14-112624**	EPA 903.1	713479		
60465555001	**MW-11A-112624**	EPA 904.0	713480		
60465555002	**MW-12-112624**	EPA 904.0	713480		
60465555003	**MW-13-112624**	EPA 904.0	713480		
60465555004	**MW-14-112624**	EPA 904.0	713480		
60465555001	**MW-11A-112624**	Total Radium Calculation	716885		
60465555002	**MW-12-112624**	Total Radium Calculation	716885		
60465555003	**MW-13-112624**	Total Radium Calculation	716885		
60465555004	**MW-14-112624**	Total Radium Calculation	716885		

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Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-LENE-00(	WO# : 60465555
	Revision: 2	Effective Date:

60465555

Client Name: ENVR-94

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-294 **Type of Ice:** Wet Blue None

Cooler Temperature (°C): **As-read** 2 **Corr. Factor** -1 **Corrected** 1

Date and initials of person examining contents: 4/11/17

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® 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

Scan QR Code for instructions

Company Name:	Evergy Kansas Central, Inc.	Contact/Report To:	Jake Humphrey
Street Address:	818 S Kansas Avenue, Topeka, KS 66612	Phone #:	(913)634-0605
		E-Mail:	jake.humphrey@evergy.com
		Cc E-Mail:	skaney@haleyaldrich.com
Customer Project #:			
Project Name:	TEC BASA NEW WELLS RADCHEM	Invoice To:	Tecumseh Center
		Invoice E-Mail:	evergyap@onlinecapturecenter.com
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	WSTR-2000018660
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [X] CT [ ] ET

County / State origin of sample(s): Kansas

Data Deliverables:
[ ] Level II [ ] Level III [ ] Level IV
[ ] EQUIS
[ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [ ] Yes [X] No

Rush (Pre-approval required):
[ ] Same Day [ ] 1 Day [ ] 2 Day [ ] 3 Day [ ] Other _____

DW PWSID # or WW Permit # as applicable:

Date Results Requested: Std

Field Filtered (if applicable): [ ] Yes [X] 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	Radium 226	Radium 228, combined, QC SHEETS	Sample Comment
MW-11A-112624	GW	Grab	-	-	11/26/2024	905	2	-	-	X	X	
MW-12-112624	GW	Grab	-	-	11/26/2024	1000	2	-	-	X	X	
MW-13-112624	GW	Grab	-	-	11/26/2024	1125	2	-	-	X	X	
MW-14-112624	GW	Grab	-	-	11/26/2024	1215	2	-	-	X	X	

Specify Container Size **: 1 1
Identify Container Preservative Type***: 2 2
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: Alice Spiller
AcctNum / Client ID:
Table #:
Profile / Template: 16502
Prelog / Bottle Ord. ID: EZ 3150918

Preservation non-conformance identified for sample.

Additional Instructions from Pace®:

Collected By: (Printed Name) Matt VanderPutten

Signature: Matt VanerPutten

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)	On Ice:
				4.7	

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
Matt VanderPutten / SCS	11/27/24 / 1315		11/27 1315	
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 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/

Client: Evergy

Site: Bag

Profile/EZ # 315918

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																						2										
3																						2										
4																						2										
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 Or

WO#: 60465555

PM: AS Due Date: 12/30/24

CLIENT: Evergy_Haley

Internal Transfer Chain of Custody

☐ Rush Multiplier_____X
☐ Samples Pre-Logged into eCOC

State Of Origin: KS
Cert. Needed: ☒ Yes ☐ No

Workorder: 60465555 **Workorder Name:** TEC BASA New Compliance Wells

Owner Received Date: 11/27/2024 **Results Requested By:** 12/30/2024

Report To	Subcontract To
Alice Spiller Pace Analytical Kansas 9608 Loiret Blvd. Lenexa, KS 66219 Phone (913)599-5665	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 QC Sheets	Radium 226	Radium 228, and combined									LAB USE ONLY
1	MW-11A-112624	PS	11/26/2024 09:05	60465555001	Water	2						X	X	X									001
2	MW-12-112624	PS	11/26/2024 10:00	60465555002	Water	2						X	X	X									002
3	MW-13-112624	PS	11/26/2024 11:25	60465555003	Water	2						X	X	X									003
4	MW-14-112624	PS	11/26/2024 12:15	60465555004	Water	2						X	X	X									004
5																							

Transfers	Released By	Date/Time	Received By	Date/Time
1	[signature]	12/2 1500	Evan Laughlin	12/3/24 1010
2				
3				

Comments

KS sample location: 60-R01-S3A

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# : 30738435

30738435

DC#_Title: ENV-FRM-GBUR-0088 v07_Sample C... Greensburg

Effective Date: 01/04/2024

WO# : 30738435

PM: MAR Due Date: 12/24/24

CLIENT: PACE_60_LEKS

Client Name: Pace-Lenexa, KS Pro...

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other

Tracking Number: 4033 6453 4825

Initial / Date

Examined By: EL 12/3/24

Labeled By: EL 12/3/24

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# 10D3241 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: exceptions: VOA, coliform, TOC, O&G, Phenolics, Radon, non-aqueous matrix	✓			16. pH<2
All containers meet method preservation requirements:	✓			Initial when completed: EL 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: EL Date: 12/3/24 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

Page 1 of 1

Quality Control Sample Performance Assessment

Pace Analytical
www.pacelabs.com

Test:	Ra-226
Analyst:	REH1
Date:	12/6/2024
Batch ID:	82668
Matrix:	DW

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3475038
MB concentration:	-0.044
M/B Counting Uncertainty:	0.193
MB MDC:	0.474
MB Numerical Performance Indicator:	-0.45
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS82668	LCSD82668
Count Date:	12/19/2024	12/19/2024
Spike I.D.:	24-046	24-046
Spike Concentration (pCi/mL):	31.837	31.837
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.652	0.653
Target Conc. (pCi/L, g, F):	4.879	4.873
Uncertainty (Calculated):	0.229	0.229
Result (pCi/L, g, F):	6.334	4.445
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	1.221	0.966
Numerical Performance Indicator:	2.30	-0.84
Percent Recovery:	129.82%	91.22%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	133%	133%
Lower % Recovery Limits:	73%	73%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS82668	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD82668	
Sample Result (pCi/L, g, F):	6.334	
Sample Result Counting Uncertainty (pCi/L, g, F):	1.221	
Sample Duplicate Result (pCi/L, g, F):	4.445	
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.966	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	2.378	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	34.92%	
Duplicate Status vs Numerical Indicator:	N/A	
Duplicate Status vs RPD:	Fail***	
% RPD Limit:	32%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the RL.

Comments:

NI < 3 acceptable for NON-DW matrices

~~***Batch must be re-prepped due to unacceptable precision.~~

RPD > 2 < 3 CLM 12/19/24

Arizona DHES requires qualification for any AZ DW samples reported where the QC does not meet the recommended limits of the Manual for the Certification of Labs Analyzing Drinking Waters, 5th Edition , section 7.7 of Chapter VI.

Sec 12/20/24

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Test:	Ra-228
Analyst:	ZPC
Date:	12/11/2024
Worklist:	82669
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3475040
MB concentration:	0.798
M/B 2 Sigma CSU:	0.390
MB MDC:	0.654
MB Numerical Performance Indicator:	4.01
MB Status vs Numerical Indicator:	Fail*
MB Status vs. MDC:	See Comment*

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS82669	LCSD82669
Count Date:	12/18/2024	12/18/2024
Spike I.D.:	23-043	23-043
Decay Corrected Spike Concentration (pCi/mL):	34.205	34.205
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.815	0.821
Target Conc. (pCi/L, g, F):	4.195	4.168
Uncertainty (Calculated):	0.206	0.204
Result (pCi/L, g, F):	3.909	3.474
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.974	0.895
Numerical Performance Indicator:	-0.56	-1.48
Percent Recovery:	93.18%	83.36%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS82669	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD82669	
Sample Result (pCi/L, g, F):	3.909	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.974	
Sample Duplicate Result (pCi/L, g, F):	3.474	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.895	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	0.644	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	11.12%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	36%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:
*The method blank result is below the reporting limit for this analysis and is acceptable. ✓

12/12/20/24

Suc 12/26/24

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

February 04, 2025

Jake Humphrey
Evergy, Inc.
818 S Kansas Avenue
Topeka, KS 66612

RE: Project: TEC BASA New Wells
Pace Project No.: 60468322

Dear Jake Humphrey:

Enclosed are the analytical results for sample(s) received by the laboratory on January 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

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

Sincerely,

Alice Spiller

Alice Spiller
alice.spiller@pacelabs.com
(913)599-5665
PM Lab Management

Enclosures

cc: Heath Horyna, Evergy, Inc.
Samantha Kaney, Haley & Aldrich
Melanie Satanek, Haley & Aldrich, Inc.
Adriana Sosa, Haley & Aldrich, Inc.
Nick Williams, Haley Aldrich

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CERTIFICATIONS

Project: TEC BASA New Wells
Pace Project No.: 60468322

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

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SAMPLE SUMMARY

Project: TEC BASA New Wells
Pace Project No.: 60468322

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60468322001	**MW-11A-012225**	Water	01/22/25 09:50	01/23/25 16:37
60468322002	**MW-12-012225**	Water	01/22/25 11:00	01/23/25 16:37
60468322003	**MW-13-012225**	Water	01/22/25 13:05	01/23/25 16:37
60468322004	**MW-14-012225**	Water	01/22/25 14:40	01/23/25 16:37

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SAMPLE ANALYTE COUNT

Project: TEC BASA New Wells
Pace Project No.: 60468322

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60468322001	**MW-11A-012225**	EPA 200.7	ARMN	7	PASI-K
		EPA 200.8	JGP	8	PASI-K
		EPA 245.1	MNG	1	PASI-K
		SM 2540C	TML	1	PASI-K
		SM 4500-H+B	TML	1	PASI-K
		EPA 300.0	AAA	3	PASI-K
60468322002	**MW-12-012225**	EPA 200.7	ARMN	7	PASI-K
		EPA 200.8	JGP	8	PASI-K
		EPA 245.1	MNG	1	PASI-K
		SM 2540C	TML	1	PASI-K
		SM 4500-H+B	TML	1	PASI-K
		EPA 300.0	AAA	3	PASI-K
60468322003	**MW-13-012225**	EPA 200.7	ARMN	7	PASI-K
		EPA 200.8	JGP	8	PASI-K
		EPA 245.1	MNG	1	PASI-K
		SM 2540C	TML	1	PASI-K
		SM 4500-H+B	TML	1	PASI-K
		EPA 300.0	AAA	3	PASI-K
60468322004	**MW-14-012225**	EPA 200.7	ARMN	7	PASI-K
		EPA 200.8	JGP	8	PASI-K
		EPA 245.1	MNG	1	PASI-K
		SM 2540C	TML	1	PASI-K
		SM 4500-H+B	TML	1	PASI-K
		EPA 300.0	AAA	3	PASI-K

PASI-K = Pace Analytical Services - Kansas City

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PROJECT NARRATIVE

Project: TEC BASA New Wells
Pace Project No.: 60468322

Method: **EPA 200.7**
Description: 200.7 Metals, Total
Client: Evergy_Haley & Aldrich
Date: February 04, 2025

General Information:
4 samples were analyzed for EPA 200.7 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 200.7 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 923073

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60468319002

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 3655632)
  - Calcium

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: TEC BASA New Wells
Pace Project No.: 60468322

Method: **EPA 200.8**
Description: 200.8 MET ICPMS
Client: Evergy_Haley & Aldrich
Date: February 04, 2025

General Information:
4 samples were analyzed for EPA 200.8 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 200.8 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA New Wells
Pace Project No.: 60468322

Method: **EPA 245.1**
Description: 245.1 Mercury
Client: Evergy_Haley & Aldrich
Date: February 04, 2025

General Information:
4 samples were analyzed for EPA 245.1 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 245.1 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 923176

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60467843002,60468319004

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 3655989)
  - Mercury

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: TEC BASA New Wells
Pace Project No.: 60468322

Method: **SM 2540C**
Description: 2540C Total Dissolved Solids
Client: Evergy_Haley & Aldrich
Date: February 04, 2025

General Information:
4 samples were analyzed for SM 2540C by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

QC Batch: 923189

D6: The precision between the sample and sample duplicate exceeded laboratory control limits.

- DUP (Lab ID: 3656032)
  - Total Dissolved Solids

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA New Wells
Pace Project No.: 60468322

Method: **SM 4500-H+B**
Description: 4500H+ pH, Electrometric
Client: Evergy_Haley & Aldrich
Date: February 04, 2025

General Information:
4 samples were analyzed for SM 4500-H+B by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

H6: Analysis initiated outside of the 15 minute EPA required holding time.
- MW-11A-012225 (Lab ID: 60468322001)
- MW-12-012225 (Lab ID: 60468322002)
- MW-13-012225 (Lab ID: 60468322003)
- MW-14-012225 (Lab ID: 60468322004)

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA New Wells
Pace Project No.: 60468322

Method: **EPA 300.0**
Description: 300.0 IC Anions 28 Days
Client: Evergy_Haley & Aldrich
Date: February 04, 2025

General Information:
4 samples were analyzed for EPA 300.0 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 923321

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60468453001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 3656403)
  - Chloride
- MSD (Lab ID: 3656404)
  - Chloride

Additional Comments:

Analyte Comments:

QC Batch: 923321

E: Analyte concentration exceeded the calibration range. The reported result is estimated.

- MS (Lab ID: 3656403)
  - Sulfate
- MSD (Lab ID: 3656404)
  - Sulfate

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: TEC BASA New Wells
Pace Project No.: 60468322

Sample: MW-11A-012225 **Lab ID: 60468322001** Collected: 01/22/25 09:50 Received: 01/23/25 16:37 Matrix: Water

Parameters	Results	Units	Report Limit	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, Total Recoverable	**0.045**	mg/L	0.0050	1	01/27/25 08:31	01/30/25 18:17	7440-39-3	
Beryllium, Total Recoverable	**<0.0010**	mg/L	0.0010	1	01/27/25 08:31	01/30/25 18:17	7440-41-7	
Boron, Total Recoverable	**0.41**	mg/L	0.10	1	01/27/25 08:31	01/30/25 18:17	7440-42-8	
Calcium, Total Recoverable	**233**	mg/L	0.20	1	01/27/25 08:31	01/30/25 18:17	7440-70-2	
Chromium, Total Recoverable	**<0.0050**	mg/L	0.0050	1	01/27/25 08:31	01/30/25 18:17	7440-47-3	
Lead, Total Recoverable	**<0.010**	mg/L	0.010	1	01/27/25 08:31	01/30/25 18:17	7439-92-1	
Lithium	**0.029**	mg/L	0.010	1	01/27/25 08:31	01/30/25 18:17	7439-93-2	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City							
Antimony, Total Recoverable	**<0.0010**	mg/L	0.0010	1	01/27/25 08:31	02/03/25 11:07	7440-36-0	
Arsenic, Total Recoverable	**0.0021**	mg/L	0.0010	1	01/27/25 08:31	02/03/25 11:07	7440-38-2	
Cadmium, Total Recoverable	**<0.00050**	mg/L	0.00050	1	01/27/25 08:31	02/03/25 11:07	7440-43-9	
Chromium, Total Recoverable	**<0.0010**	mg/L	0.0010	1	01/27/25 08:31	02/03/25 11:07	7440-47-3	
Cobalt, Total Recoverable	**0.012**	mg/L	0.0010	1	01/27/25 08:31	02/03/25 11:07	7440-48-4	
Molybdenum, Total Recoverable	**0.0024**	mg/L	0.0010	1	01/27/25 08:31	02/03/25 11:07	7439-98-7	
Selenium, Total Recoverable	**<0.0010**	mg/L	0.0010	1	01/27/25 08:31	02/03/25 11:07	7782-49-2	
Thallium, Total Recoverable	**<0.0010**	mg/L	0.0010	1	01/27/25 08:31	02/03/25 11:07	7440-28-0	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Kansas City							
Mercury	**<0.20**	ug/L	0.20	1	01/27/25 13:12	01/28/25 12:03	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City							
Total Dissolved Solids	**1790**	mg/L	100	1		01/28/25 12:28		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Kansas City							
pH at 25 Degrees C	**6.8**	Std. Units	0.10	1		01/28/25 17:24		H6
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City							
Chloride	**450**	mg/L	100	100		01/28/25 16:39	16887-00-6	
Fluoride	**<0.20**	mg/L	0.20	1		01/28/25 15:43	16984-48-8	
Sulfate	**389**	mg/L	20.0	20		01/28/25 15:57	14808-79-8	

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ANALYTICAL RESULTS

Project: TEC BASA New Wells
Pace Project No.: 60468322

Sample: MW-12-012225 **Lab ID: 60468322002** Collected: 01/22/25 11:00 Received: 01/23/25 16:37 Matrix: Water

Parameters	Results	Units	Report Limit	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, Total Recoverable	**0.078**	mg/L	0.0050	1	01/27/25 08:31	01/30/25 18:19	7440-39-3	
Beryllium, Total Recoverable	**<0.0010**	mg/L	0.0010	1	01/27/25 08:31	01/30/25 18:19	7440-41-7	
Boron, Total Recoverable	**0.48**	mg/L	0.10	1	01/27/25 08:31	01/30/25 18:19	7440-42-8	
Calcium, Total Recoverable	**211**	mg/L	0.20	1	01/27/25 08:31	01/30/25 18:19	7440-70-2	
Chromium, Total Recoverable	**<0.0050**	mg/L	0.0050	1	01/27/25 08:31	01/30/25 18:19	7440-47-3	
Lead, Total Recoverable	**<0.010**	mg/L	0.010	1	01/27/25 08:31	01/30/25 18:19	7439-92-1	
Lithium	**0.031**	mg/L	0.010	1	01/27/25 08:31	01/30/25 18:19	7439-93-2	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City							
Antimony, Total Recoverable	**<0.0010**	mg/L	0.0010	1	01/27/25 08:31	02/03/25 11:10	7440-36-0	
Arsenic, Total Recoverable	**0.015**	mg/L	0.0010	1	01/27/25 08:31	02/03/25 11:10	7440-38-2	
Cadmium, Total Recoverable	**<0.00050**	mg/L	0.00050	1	01/27/25 08:31	02/03/25 11:10	7440-43-9	
Chromium, Total Recoverable	**<0.0010**	mg/L	0.0010	1	01/27/25 08:31	02/03/25 11:10	7440-47-3	
Cobalt, Total Recoverable	**0.032**	mg/L	0.0010	1	01/27/25 08:31	02/03/25 11:10	7440-48-4	
Molybdenum, Total Recoverable	**0.0052**	mg/L	0.0010	1	01/27/25 08:31	02/03/25 11:10	7439-98-7	
Selenium, Total Recoverable	**<0.0010**	mg/L	0.0010	1	01/27/25 08:31	02/03/25 11:10	7782-49-2	
Thallium, Total Recoverable	**<0.0010**	mg/L	0.0010	1	01/27/25 08:31	02/03/25 11:10	7440-28-0	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Kansas City							
Mercury	**<0.20**	ug/L	0.20	1	01/27/25 13:12	01/28/25 12:10	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City							
Total Dissolved Solids	**1610**	mg/L	100	1		01/28/25 12:28		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Kansas City							
pH at 25 Degrees C	**6.7**	Std. Units	0.10	1		01/28/25 17:24		H6
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City							
Chloride	**384**	mg/L	100	100		01/28/25 17:20	16887-00-6	
Fluoride	**<0.20**	mg/L	0.20	1		01/28/25 16:52	16984-48-8	
Sulfate	**366**	mg/L	20.0	20		01/28/25 17:06	14808-79-8	

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ANALYTICAL RESULTS

Project: TEC BASA New Wells
Pace Project No.: 60468322

Sample: MW-13-012225 **Lab ID: 60468322003** Collected: 01/22/25 13:05 Received: 01/23/25 16:37 Matrix: Water

Parameters	Results	Units	Report Limit	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, Total Recoverable	**0.079**	mg/L	0.0050	1	01/27/25 08:31	01/30/25 18:21	7440-39-3	
Beryllium, Total Recoverable	**<0.0010**	mg/L	0.0010	1	01/27/25 08:31	01/30/25 18:21	7440-41-7	
Boron, Total Recoverable	**1.1**	mg/L	0.10	1	01/27/25 08:31	01/30/25 18:21	7440-42-8	
Calcium, Total Recoverable	**219**	mg/L	0.20	1	01/27/25 08:31	01/30/25 18:21	7440-70-2	
Chromium, Total Recoverable	**0.0072**	mg/L	0.0050	1	01/27/25 08:31	01/30/25 18:21	7440-47-3	
Lead, Total Recoverable	**<0.010**	mg/L	0.010	1	01/27/25 08:31	01/30/25 18:21	7439-92-1	
Lithium	**0.021**	mg/L	0.010	1	01/27/25 08:31	01/30/25 18:21	7439-93-2	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City							
Antimony, Total Recoverable	**<0.0010**	mg/L	0.0010	1	01/27/25 08:31	02/03/25 11:13	7440-36-0	
Arsenic, Total Recoverable	**0.0077**	mg/L	0.0010	1	01/27/25 08:31	02/03/25 11:13	7440-38-2	
Cadmium, Total Recoverable	**<0.00050**	mg/L	0.00050	1	01/27/25 08:31	02/03/25 11:13	7440-43-9	
Chromium, Total Recoverable	**0.0060**	mg/L	0.0010	1	01/27/25 08:31	02/03/25 11:13	7440-47-3	
Cobalt, Total Recoverable	**0.0033**	mg/L	0.0010	1	01/27/25 08:31	02/03/25 11:13	7440-48-4	
Molybdenum, Total Recoverable	**0.031**	mg/L	0.0010	1	01/27/25 08:31	02/03/25 11:13	7439-98-7	
Selenium, Total Recoverable	**0.0015**	mg/L	0.0010	1	01/27/25 08:31	02/03/25 11:13	7782-49-2	
Thallium, Total Recoverable	**<0.0010**	mg/L	0.0010	1	01/27/25 08:31	02/03/25 11:13	7440-28-0	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Kansas City							
Mercury	**<0.20**	ug/L	0.20	1	01/27/25 13:12	01/28/25 12:12	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City							
Total Dissolved Solids	**1700**	mg/L	66.7	1		01/28/25 12:28		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Kansas City							
pH at 25 Degrees C	**7.7**	Std. Units	0.10	1		01/28/25 17:24		H6
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City							
Chloride	**280**	mg/L	20.0	20		01/28/25 17:47	16887-00-6	
Fluoride	**<0.20**	mg/L	0.20	1		01/28/25 17:34	16984-48-8	
Sulfate	**775**	mg/L	100	100		01/28/25 18:01	14808-79-8	

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ANALYTICAL RESULTS

Project: TEC BASA New Wells
Pace Project No.: 60468322

Sample: MW-14-012225 **Lab ID: 60468322004** Collected: 01/22/25 14:40 Received: 01/23/25 16:37 Matrix: Water

Parameters	Results	Units	Report Limit	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, Total Recoverable	**0.029**	mg/L	0.0050	1	01/27/25 08:31	01/30/25 18:23	7440-39-3	
Beryllium, Total Recoverable	**<0.0010**	mg/L	0.0010	1	01/27/25 08:31	01/30/25 18:23	7440-41-7	
Boron, Total Recoverable	**1.0**	mg/L	0.10	1	01/27/25 08:31	01/30/25 18:23	7440-42-8	
Calcium, Total Recoverable	**195**	mg/L	0.20	1	01/27/25 08:31	01/30/25 18:23	7440-70-2	
Chromium, Total Recoverable	**<0.0050**	mg/L	0.0050	1	01/27/25 08:31	01/30/25 18:23	7440-47-3	
Lead, Total Recoverable	**<0.010**	mg/L	0.010	1	01/27/25 08:31	01/30/25 18:23	7439-92-1	
Lithium	**0.024**	mg/L	0.010	1	01/27/25 08:31	01/30/25 18:23	7439-93-2	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City							
Antimony, Total Recoverable	**<0.0010**	mg/L	0.0010	1	01/27/25 08:31	02/03/25 11:15	7440-36-0	
Arsenic, Total Recoverable	**0.0011**	mg/L	0.0010	1	01/27/25 08:31	02/03/25 11:15	7440-38-2	
Cadmium, Total Recoverable	**<0.00050**	mg/L	0.00050	1	01/27/25 08:31	02/03/25 11:15	7440-43-9	
Chromium, Total Recoverable	**<0.0010**	mg/L	0.0010	1	01/27/25 08:31	02/03/25 11:15	7440-47-3	
Cobalt, Total Recoverable	**<0.0010**	mg/L	0.0010	1	01/27/25 08:31	02/03/25 11:15	7440-48-4	
Molybdenum, Total Recoverable	**0.025**	mg/L	0.0010	1	01/27/25 08:31	02/03/25 11:15	7439-98-7	
Selenium, Total Recoverable	**<0.0010**	mg/L	0.0010	1	01/27/25 08:31	02/03/25 11:15	7782-49-2	
Thallium, Total Recoverable	**<0.0010**	mg/L	0.0010	1	01/27/25 08:31	02/03/25 11:15	7440-28-0	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Kansas City							
Mercury	**<0.20**	ug/L	0.20	1	01/31/25 15:18	02/03/25 12:52	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City							
Total Dissolved Solids	**1380**	mg/L	66.7	1		01/28/25 12:28		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Kansas City							
pH at 25 Degrees C	**7.2**	Std. Units	0.10	1		01/28/25 17:24		H6
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City							
Chloride	**263**	mg/L	20.0	20		01/28/25 18:29	16887-00-6	
Fluoride	**<0.20**	mg/L	0.20	1		01/28/25 18:15	16984-48-8	
Sulfate	**544**	mg/L	100	100		01/28/25 18:43	14808-79-8	

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QUALITY CONTROL DATA

Project: TEC BASA New Wells
Pace Project No.: 60468322

QC Batch: 923176
QC Batch Method: EPA 245.1
Analysis Method: EPA 245.1
Analysis Description: 245.1 Mercury
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60468322001, 60468322002, 60468322003

METHOD BLANK: 3655985 Matrix: Water
Associated Lab Samples: 60468322001, 60468322002, 60468322003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	<0.20	0.20	01/28/25 11:22	

LABORATORY CONTROL SAMPLE: 3655986

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.9	97	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3655987 3655988

Parameter	Units	60467843002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	<0.20	5	5	4.5	4.8	89	94	70-130	6	20	

MATRIX SPIKE SAMPLE: 3655989

Parameter	Units	60468319004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	<0.20	5	1.8	36	70-130	M1

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QUALITY CONTROL DATA

Project: TEC BASA New Wells
Pace Project No.: 60468322

QC Batch: 923770
QC Batch Method: EPA 245.1
Analysis Method: EPA 245.1
Analysis Description: 245.1 Mercury
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60468322004

METHOD BLANK: 3658101 Matrix: Water
Associated Lab Samples: 60468322004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	<0.20	0.20	02/03/25 12:46	

LABORATORY CONTROL SAMPLE: 3658102

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.6	111	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3658103 3658104

Parameter	Units	60468322004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	<0.20	5	5	5.8	6.0	115	120	70-130	4	20	

MATRIX SPIKE SAMPLE: 3658105

Parameter	Units	60468524001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	ND	5	5.4	108	70-130	

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QUALITY CONTROL DATA

Project: TEC BASA New Wells
Pace Project No.: 60468322

QC Batch: 923073
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: 60468322001, 60468322002, 60468322003, 60468322004

METHOD BLANK: 3655630 Matrix: Water
Associated Lab Samples: 60468322001, 60468322002, 60468322003, 60468322004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Barium	mg/L	<0.0050	0.0050	01/30/25 17:55	
Beryllium	mg/L	<0.0010	0.0010	01/30/25 17:55	
Boron	mg/L	<0.10	0.10	01/30/25 17:55	
Calcium	mg/L	<0.20	0.20	01/30/25 17:55	
Chromium	mg/L	<0.0050	0.0050	01/30/25 17:55	
Lead	mg/L	<0.010	0.010	01/30/25 17:55	
Lithium	mg/L	<0.010	0.010	01/30/25 17:55	

LABORATORY CONTROL SAMPLE: 3655631

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	mg/L	1	0.97	97	85-115	
Beryllium	mg/L	1	0.97	97	85-115	
Boron	mg/L	1	0.93	93	85-115	
Calcium	mg/L	10	10	100	85-115	
Chromium	mg/L	1	0.98	98	85-115	
Lead	mg/L	1	1.0	101	85-115	
Lithium	mg/L	1	0.94	94	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3655632 3655633

Parameter	Units	60468319002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	mg/L	0.088	1	1	1.1	1.0	98	94	70-130	4	20	
Beryllium	mg/L	<0.0010	1	1	0.98	0.95	98	95	70-130	3	20	
Boron	mg/L	3.0	1	1	4.1	3.9	109	89	70-130	5	20	
Calcium	mg/L	149	10	10	166	157	166	77	70-130	6	20	M1
Chromium	mg/L	<0.0050	1	1	0.98	0.95	97	95	70-130	3	20	
Lead	mg/L	<0.010	1	1	0.98	0.95	98	95	70-130	3	20	
Lithium	mg/L	0.020	1	1	0.96	0.94	94	92	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

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Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: TEC BASA New Wells
Pace Project No.: 60468322

QC Batch: 923072
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: 60468322001, 60468322002, 60468322003, 60468322004

METHOD BLANK: 3655625 Matrix: Water
Associated Lab Samples: 60468322001, 60468322002, 60468322003, 60468322004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	mg/L	<0.0010	0.0010	02/03/25 10:32	
Arsenic	mg/L	<0.0010	0.0010	02/03/25 10:32	
Cadmium	mg/L	<0.00050	0.00050	02/03/25 10:32	
Chromium	mg/L	<0.0010	0.0010	02/03/25 10:32	
Cobalt	mg/L	<0.0010	0.0010	02/03/25 10:32	
Molybdenum	mg/L	<0.0010	0.0010	02/03/25 10:32	
Selenium	mg/L	<0.0010	0.0010	02/03/25 10:32	
Thallium	mg/L	<0.0010	0.0010	02/03/25 10:32	

LABORATORY CONTROL SAMPLE: 3655626

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.04	0.039	98	85-115	
Arsenic	mg/L	0.04	0.039	98	85-115	
Cadmium	mg/L	0.04	0.040	100	85-115	
Chromium	mg/L	0.04	0.039	99	85-115	
Cobalt	mg/L	0.04	0.040	100	85-115	
Molybdenum	mg/L	0.04	0.040	99	85-115	
Selenium	mg/L	0.04	0.040	101	85-115	
Thallium	mg/L	0.04	0.039	96	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3655627 3655628

Parameter	Units	60468319001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	<0.0010	0.04	0.04	0.038	0.037	95	92	70-130	3	20	
Arsenic	mg/L	0.0015	0.04	0.04	0.040	0.040	97	95	70-130	2	20	
Cadmium	mg/L	<0.00050	0.04	0.04	0.037	0.036	92	89	70-130	3	20	
Chromium	mg/L	0.0018	0.04	0.04	0.034	0.033	81	79	70-130	2	20	
Cobalt	mg/L	0.0028	0.04	0.04	0.041	0.040	96	94	70-130	2	20	
Molybdenum	mg/L	<0.0010	0.04	0.04	0.042	0.041	104	102	70-130	2	20	
Selenium	mg/L	<0.0010	0.04	0.04	0.036	0.036	90	89	70-130	1	20	
Thallium	mg/L	<0.0010	0.04	0.04	0.041	0.040	102	100	70-130	1	20	

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QUALITY CONTROL DATA

Project: TEC BASA New Wells
Pace Project No.: 60468322

QC Batch: 923189 | Analysis Method: SM 2540C
QC Batch Method: SM 2540C | Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60468322001, 60468322002, 60468322003, 60468322004

METHOD BLANK: 3656030 Matrix: Water
Associated Lab Samples: 60468322001, 60468322002, 60468322003, 60468322004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<5.0	5.0	01/28/25 12:27	

LABORATORY CONTROL SAMPLE: 3656031

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	1000	989	99	80-120	

SAMPLE DUPLICATE: 3656032

Parameter	Units	60468232001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	451	400	12	10	D6

SAMPLE DUPLICATE: 3656033

Parameter	Units	60468319002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	906	902	0	10	

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QUALITY CONTROL DATA

Project: TEC BASA New Wells
Pace Project No.: 60468322

QC Batch: 923318
QC Batch Method: SM 4500-H+B
Analysis Method: SM 4500-H+B
Analysis Description: 4500H+B pH
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60468322001, 60468322002, 60468322003, 60468322004

SAMPLE DUPLICATE: 3656391

Parameter	Units	60468268001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	6.7	6.7	0	5	H6

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QUALITY CONTROL DATA

Project: TEC BASA New Wells
Pace Project No.: 60468322

QC Batch: 923321
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: 60468322001, 60468322002, 60468322003, 60468322004

METHOD BLANK: 3656401 Matrix: Water
Associated Lab Samples: 60468322001, 60468322002, 60468322003, 60468322004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<1.0	1.0	01/28/25 13:52	
Fluoride	mg/L	<0.20	0.20	01/28/25 13:52	
Sulfate	mg/L	<1.0	1.0	01/28/25 13:52	

LABORATORY CONTROL SAMPLE: 3656402

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	101	90-110	
Sulfate	mg/L	5	5.1	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3656403 3656404

Parameter	Units	60468453001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	221	100	100	274	273	52	52	80-120	0	15	M1
Fluoride	mg/L	<4.0	50	50	51.4	56.1	103	112	80-120	9	15	
Sulfate	mg/L	351	100	100	448	455	97	104	80-120	2	15	E

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QUALIFIERS

Project: TEC BASA New Wells
Pace Project No.: 60468322

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

D6	The precision between the sample and sample duplicate exceeded laboratory control limits.
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.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: TEC BASA New Wells
Pace Project No.: 60468322

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60468322001	**MW-11A-012225**	EPA 200.7	923073	EPA 200.7	923216
60468322002	**MW-12-012225**	EPA 200.7	923073	EPA 200.7	923216
60468322003	**MW-13-012225**	EPA 200.7	923073	EPA 200.7	923216
60468322004	**MW-14-012225**	EPA 200.7	923073	EPA 200.7	923216
60468322001	**MW-11A-012225**	EPA 200.8	923072	EPA 200.8	923217
60468322002	**MW-12-012225**	EPA 200.8	923072	EPA 200.8	923217
60468322003	**MW-13-012225**	EPA 200.8	923072	EPA 200.8	923217
60468322004	**MW-14-012225**	EPA 200.8	923072	EPA 200.8	923217
60468322001	**MW-11A-012225**	EPA 245.1	923176	EPA 245.1	923237
60468322002	**MW-12-012225**	EPA 245.1	923176	EPA 245.1	923237
60468322003	**MW-13-012225**	EPA 245.1	923176	EPA 245.1	923237
60468322004	**MW-14-012225**	EPA 245.1	923770	EPA 245.1	923784
60468322001	**MW-11A-012225**	SM 2540C	923189		
60468322002	**MW-12-012225**	SM 2540C	923189		
60468322003	**MW-13-012225**	SM 2540C	923189		
60468322004	**MW-14-012225**	SM 2540C	923189		
60468322001	**MW-11A-012225**	SM 4500-H+B	923318		
60468322002	**MW-12-012225**	SM 4500-H+B	923318		
60468322003	**MW-13-012225**	SM 4500-H+B	923318		
60468322004	**MW-14-012225**	SM 4500-H+B	923318		
60468322001	**MW-11A-012225**	EPA 300.0	923321		
60468322002	**MW-12-012225**	EPA 300.0	923321		
60468322003	**MW-13-012225**	EPA 300.0	923321		
60468322004	**MW-14-012225**	EPA 300.0	923321		

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

WO# : 60468322

60468322

Client Name: Evergy K.C. - TEC BASA

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** 0.3 **Corr. Factor** +0.1 **Corrected** 0.4

Date and initials of person examining contents: 1/23 CJ

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#:** 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® 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

60468322

Scan QR Code for instructions

Company Name:	Evergy Kansas Central, Inc.
Street Address:	818 S Kansas Avenue, Topeka, KS 66612
Customer Project #:	
Project Name:	TEC BASA NEW WELLS
Site Collection Info/Facility ID (as applicable):	

Contact/Report To:	Jake Humphrey
Phone #:	(913)634-0605
E-Mail:	jake.humphrey@evergy.com
Cc E-Mail:	skaney@haleyaldrich.com
Invoice To:	Tecumseh Center
Invoice E-Mail:	evergyap@onlinecapturecenter.com
Purchase Order # (if applicable):	WSTR-2000018660
Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [X] CT [ ] ET

County / State origin of sample(s): Kansas

Data Deliverables:
[ ] Level II [ ] Level III [ ] Level IV
[ ] EQUIS
[ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [ ] Yes [X] 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 [X] 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	200.7 /200.8 / 245.1/6010	2540C Total Dissolved Solids	300.0 IC Cl,F,SO4	4500H+ pH, Electrometric
										Specify Container Size **			
										3	1	3	3
										Identify Container Preservative Type***			
										2	1	1	1
										Analysis Requested			
MW-11A-012225	GW	Grab	-	-	1/22/2025	950	4	-	-	X	X	X	X
MW-12-012225	GW	Grab	-	-	1/22/2025	1100	4	-	-	X	X	X	X
MW-13-012225	GW	Grab	-	-	1/22/2025	1305	4	-	-	X	X	X	X
MW-14-012225	GW	Grab	-	-	1/22/2025	1440	4	-	-	X	X	X	X

**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: Alice Spiller

AcctNum / Client ID:

Table #:

Profile / Template: 16502

Prelog / Bottle Ord. ID: EZ 3150913

Sample Comment

Preservation non-conformance identified for sample.

Additional Instructions from Pace®:
200.7 B,Ca,Ba,Be,Cr,Pb
200.8 Sb,As,Cd,Co,Mo,Se,Tl
6010 Li / 245.1 Hg

Collected By: (Printed Name) Matt VanderPutten

Signature: Matt VanderPutten

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)	On Ice:
				0.4	

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
Matt VanderPutten / SCS	01/23/25 1620		1/23 1637	
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 1

Page 25 of 26

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: Evergy Kansas Central Profile/EZ # EZ 3150913

Site: TE BASA New Wells 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	2		1									
2	"																			"	"		"									
3	"																			"	"		"									
4	"																			"	"		"									
5																																
6																																
7																																
8																																
9																																
10																																
11																																
12																																

Container Codes

Glass				Plastic		Misc.	
DG9B	40mL bisulfate clear vial	WGKU	8oz clear soil jar	BP1B	1L NAOH plastic	I	Wipe/Swab
DG9H	40mL HCl amber voa vial	WGFU	4oz clear soil jar	BP1N	1L HNO3 plastic	SP5T	120mL Coliform Na Thiosulfate
DG9M	40mL MeOH clear vial	WG2U	2oz clear soil jar	BP1S	1L H2SO4 plastic	ZPLC	Ziploc Bag
DG9Q	40mL TSP amber vial	JGFU	4oz unpreserved amber wide	BP1U	1L unpreserved plastic	AF	Air Filter
DG9S	40mL H2SO4 amber vial	AG0U	100mL unores amber glass	BP1Z	1L NaOH, Zn Acetate	C	Air Cassettes
DG9T	40mL Na Thio amber vial	AG1H	1L HCl amber glass	BP2B	500mL NAOH plastic	R	Terracore Kit
DG9U	40mL amber unpreserved	AG1S	1L H2SO4 amber glass	BP2N	500mL HNO3 plastic	U	Summa Can
VG9H	40mL HCl clear vial	AG1T	1L Na Thiosulfate clear/amber glass	BP2S	500mL H2SO4 plastic		
VG9T	40mL Na Thio. clear vial	AG1U	1liter unpres amber glass	BP2U	500mL unpreserved plastic		
VG9U	40mL unpreserved clear vial	AG2N	500mL HNO3 amber glass	BP2Z	500mL NaOH, Zn Acetate	Matrix	
BG1S	1liter H2SO4 clear glass	AG2S	500mL H2SO4 amber glass	BP3B	250mL NaOH plastic		
BG1U	1liter unpres glass	AG3S	250mL H2SO4 amber glass	BP3F	250mL HNO3 plastic - field filtered	WT	Water
BG3H	250mL HCL Clear glass	AG2U	500mL unpres amber glass	BP3N	250mL HNO3 plastic	SL	Solid
BG3U	250mL Unpres Clear glass	AG3U	250mL unpres amber glass	BP3U	250mL unpreserved plastic	NAL	Non-aqueous Liquid
WGDU	16oz clear soil jar	AG4U	125mL unpres amber glass	BP3S	250mL H2SO4 plastic	OL	OIL
		AG5U	100mL unpres amber glass	BP3Z	250mL NaOH, Zn Acetate	WP	Wipe
				BP4U	125mL unpreserved plastic	DW	Drinking Water
				BP4N	125mL HNO3 plastic		
				BP4S	125mL H2SO4 plastic		
				WPDU	16oz unpresserved plstic		

Work Order Number: WO#: 60468322

PM: AS Due Date: 02/07/25

CLIENT: Evergy_Haley

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

April 02, 2025

Jake Humphrey
Evergy, Inc.
818 S Kansas Avenue
Topeka, KS 66612

RE: Project: TEC BASA NEW WELLS RADCHEM-Revised Report
Pace Project No.: 60468323

Dear Jake Humphrey:

Enclosed are the analytical results for sample(s) received by the laboratory on January 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 - Greensburg

(Greensburg, PA) - Revision #1 - This report replaces the February 7th, 2025, report. This project was revised on March 20th, 2025, to adjust the reporting profile for radiological calculations.

REVISED to recalculate uncertainties using the square root of the squared sum formula.

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

Sincerely,

Alice Spiller

Alice Spiller
alice.spiller@pacelabs.com
(913)599-5665
PM Lab Management

Enclosures

cc: Heath Horyna, Evergy, Inc.
Samantha Kaney, Haley & Aldrich
Melanie Satanek, Haley & Aldrich, Inc.
Adriana Sosa, Haley & Aldrich, Inc.
Nick Williams, Haley Aldrich

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9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

CERTIFICATIONS

Project: TEC BASA NEW WELLS RADCHEM-Revised Report
Pace Project No.: 60468323

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

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SAMPLE SUMMARY

Project: TEC BASA NEW WELLS RADCHEM-Revised Report
Pace Project No.: 60468323

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60468323001	**MW-11A-012225**	Water	01/22/25 09:50	01/23/25 16:37
60468323002	**MW-12-012225**	Water	01/22/25 11:00	01/23/25 16:37
60468323003	**MW-13-012225**	Water	01/22/25 13:05	01/23/25 16:37
60468323004	**MW-14-012225**	Water	01/22/25 14:40	01/23/25 16:37

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SAMPLE ANALYTE COUNT

Project: TEC BASA NEW WELLS RADCHEM-Revised Report
Pace Project No.: 60468323

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60468323001	**MW-11A-012225**	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
60468323002	**MW-12-012225**	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
60468323003	**MW-13-012225**	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
60468323004	**MW-14-012225**	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

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PROJECT NARRATIVE

Project: TEC BASA NEW WELLS RADCHEM-Revised Report
Pace Project No.: 60468323

Method: **EPA 903.1**
Description: 903.1 Radium 226
Client: Evergy_Haley & Aldrich
Date: April 02, 2025

General Information:
4 samples were analyzed for EPA 903.1 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA NEW WELLS RADCHEM-Revised Report
Pace Project No.: 60468323

Method: **EPA 904.0**
Description: 904.0 Radium 228
Client: Evergy_Haley & Aldrich
Date: April 02, 2025

General Information:
4 samples were analyzed for EPA 904.0 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA NEW WELLS RADCHEM-Revised Report
Pace Project No.: 60468323

Method: **Total Radium Calculation**
Description: Total Radium 228+226
Client: Evergy_Haley & Aldrich
Date: April 02, 2025

General Information:
4 samples were analyzed for Total Radium Calculation by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: TEC BASA NEW WELLS RADCHEM-Revised Report
Pace Project No.: 60468323

Sample: MW-11A-012225 **Lab ID: 60468323001** Collected: 01/22/25 09:50 Received: 01/23/25 16:37 Matrix: Water
PWS: Site ID: Sample Type:

Comments: • The sampler's name and signature were not listed on the COC.

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.616 ± 0.785 (1.31) C:NA T:93%**	pCi/L	02/06/25 13:40	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**1.38 ± 0.485 (0.670) C:82% T:84%**	pCi/L	02/05/25 14:01	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**2.00 ± 0.923 (1.31)**	pCi/L	03/20/25 14:44	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: TEC BASA NEW WELLS RADCHEM-Revised Report
Pace Project No.: 60468323

Sample: MW-12-012225 **Lab ID: 60468323002** Collected: 01/22/25 11:00 Received: 01/23/25 16:37 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	**0.835 ± 1.00 (1.66) C:NA T:83%**	pCi/L	02/06/25 13:40	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**1.18 ± 0.515 (0.856) C:84% T:78%**	pCi/L	02/05/25 14:01	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**2.02 ± 1.12 (1.66)**	pCi/L	03/20/25 14:44	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: TEC BASA NEW WELLS RADCHEM-Revised Report
Pace Project No.: 60468323

Sample: MW-13-012225 **Lab ID: 60468323003** Collected: 01/22/25 13:05 Received: 01/23/25 16:37 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	**0.465 ± 0.741 (1.27) C:NA T:93%**	pCi/L	02/06/25 13:40	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**1.19 ± 0.490 (0.754) C:84% T:84%**	pCi/L	02/05/25 14:01	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.66 ± 0.888 (1.27)**	pCi/L	03/20/25 14:44	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: TEC BASA NEW WELLS RADCHEM-Revised Report
Pace Project No.: 60468323

Sample: MW-14-012225 **Lab ID: 60468323004** Collected: 01/22/25 14:40 Received: 01/23/25 16:37 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	**0.374 ± 0.715 (1.25) C:NA T:85%**	pCi/L	02/06/25 13:40	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.753 ± 0.404 (0.715) C:79% T:88%**	pCi/L	02/05/25 14:01	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.13 ± 0.821 (1.25)**	pCi/L	03/20/25 14:44	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: TEC BASA NEW WELLS RADCHEM-Revised Report
Pace Project No.: 60468323

QC Batch: 723545
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: 60468323001, 60468323002, 60468323003, 60468323004

METHOD BLANK: 3521830 Matrix: Water
Associated Lab Samples: 60468323001, 60468323002, 60468323003, 60468323004

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0924 ± 0.287 (0.555) C:NA T:90%	pCi/L	02/06/25 13:08	

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.

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QUALITY CONTROL - RADIOCHEMISTRY

Project: TEC BASA NEW WELLS RADCHEM-Revised Report
Pace Project No.: 60468323

QC Batch: 723546
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: 60468323001, 60468323002, 60468323003, 60468323004

METHOD BLANK: 3521831 Matrix: Water
Associated Lab Samples: 60468323001, 60468323002, 60468323003, 60468323004

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.387 ± 0.385 (0.790) C:78% T:76%	pCi/L	02/05/25 13:57	

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.

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QUALIFIERS

Project: TEC BASA NEW WELLS RADCHEM-Revised Report
Pace Project No.: 60468323

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.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: TEC BASA NEW WELLS RADCHEM-Revised Report
Pace Project No.: 60468323

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60468323001	**MW-11A-012225**	EPA 903.1	723545		
60468323002	**MW-12-012225**	EPA 903.1	723545		
60468323003	**MW-13-012225**	EPA 903.1	723545		
60468323004	**MW-14-012225**	EPA 903.1	723545		
60468323001	**MW-11A-012225**	EPA 904.0	723546		
60468323002	**MW-12-012225**	EPA 904.0	723546		
60468323003	**MW-13-012225**	EPA 904.0	723546		
60468323004	**MW-14-012225**	EPA 904.0	723546		
60468323001	**MW-11A-012225**	Total Radium Calculation	734329		
60468323002	**MW-12-012225**	Total Radium Calculation	734329		
60468323003	**MW-13-012225**	Total Radium Calculation	734329		
60468323004	**MW-14-012225**	Total Radium Calculation	734329		

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Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-LENE-0009_Sampl	WO# : 60468323
	Revision: 2	Effective Date: 01/12/202

60468323

Client Name: Evergy Kansas Central, Inc.

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 ☑ ZPLC

Thermometer Used: T301 **Type of Ice:** Wet Blue (None)

Cooler Temperature (°C): **As-read** 12.2 **Corr. Factor** +0.1 **Corrected** 12.3

Date and initials of person examining contents: 1/23/25 JA

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#:** 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® 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

60468323

Scan QR Code for instructions

Company Name:	Evergy Kansas Central, Inc.	Contact/Report To:	Jake Humphrey
Street Address:	818 S Kansas Avenue, Topeka, KS 66612	Phone #:	(913)634-0605
		E-Mail:	jake.humphrey@evergy.com
		Cc E-Mail:	skaney@haleyaldrich.com
Customer Project #:			
Project Name:	TEC BASA NEW WELLS RADCHEM	Invoice To:	Tecumseh Center
		Invoice E-Mail:	evergyap@onlinecapturecenter.com
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	WSTR-2000018660
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [X] CT [ ] ET

County / State origin of sample(s): Kansas

Data Deliverables:
[ ] Level II [ ] Level III [ ] Level IV
[ ] EQUIS
[ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [ ] Yes [X] 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 [X] 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
Identify Container Preservative Type***: 2 2

**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	Analysis Requested: Radium 226	Radium 228, combined, QC SHEETS	Sample Comment
MW-11A-012225	GW	Grab	-	-	1/22/2025	950	2	-	-	X	X	
MW-12-012225	GW	Grab	-	-	1/22/2025	1100	2	-	-	X	X	
MW-13-012225	GW	Grab	-	-	1/22/2025	1305	2	-	-	X	X	
MW-14-012225	GW	Grab	-	-	1/22/2025	1440	2	-	-	X	X	

Lab Use Only
Proj. Mgr: Alice Spiller
AcctNum / Client ID:
Table #:
Profile / Template: 16502
Prelog / Bottle Ord. ID: EZ 3150918

Preservation non-conformance identified for sample.

Additional Instructions from Pace®:

Collected By: (Printed Name) Matt VanderPutten
Signature: Matt VanderPutten

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)	On Ice:
	T301	+0.1	12.2	12.3	

Relinquished by/Company: (Signature) Matt VanderPutten / SCS	Date/Time: 01/23/25 1620	Received by/Company: (Signature)	Date/Time: 1/23 1637	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 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: Evergy Kansas Central, Inc. Profile/EZ # 16502 EZ:3150918

Site: TEC BASA NEW WELLS RADCHEM 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	↓																					↓										
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: 60468323

Internal Transfer Chain of Custody

☐ Rush Multiplier____X
☒ Samples Pre-Logged into eCOC

State Of Origin: KS
Cert. Needed: ☒ Yes ☐ No
Owner Received Date: 1/23/2025 Results Requested By: 2/21/2025

Workorder: 60468323 Workorder Name: TEC BASA NEW WELLS RADCHEM

Report To	Subcontract To
Alice Spiller Pace Analytical Kansas 9608 Loiret Blvd. Lenexa, KS 66219 Phone (913)599-5665	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: QC Sheets	Radium 226	Radium 228 and Combined									LAB USE ONLY
1	MW-11A-012225	PS	1/22/2025 09:50	60468323001	Water	2						X	X	X									001
2	MW-12-012225	PS	1/22/2025 11:00	60468323002	Water	2						X	X	X									002
3	MW-13-012225	PS	1/22/2025 13:05	60468323003	Water	2						X	X	X									003
4	MW-14-012225	PS	1/22/2025 14:40	60468323004	Water	2						X	X	X									004
5																							

Transfers	Released By	Date/Time	Received By	Date/Time
1	Carmen Jure	1/27/800	[signature]	1/28/25
2				
3				

Comments: KS sample location: 60-R01-S3A
10:10

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# : 30751314
30751314

DC#_Title: ENV-FRM-GBUR-0088 v07_Sample Condition Upon Receipt-Greensburg

Effective Date: 01/04/2024

WO# : 30751314

PM: MAR Due Date: 02/18/25

CLIENT: PACE_60_LEKS

Client Name: Pace-KS

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other

Tracking Number: 4033 6455 0479

Examined By: PS 1/28/25

Labeled By: PS 1/28/25

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

Comments:	Yes	No	NA	pH paper Lot# 10D3241 / 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.
-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 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: 1/28/25 / Survey Meter SN: 2501438O

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

Page 1 of 1

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Test:	Ra-226
Analyst:	CLM
Date:	1/30/2025
Batch ID:	83358
Matrix:	DW

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3521830
MB concentration:	0.092
M/B Counting Uncertainty:	0.286
MB MDC:	0.555
MB Numerical Performance Indicator:	0.63
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	y
	LCS83358	LCSD83358
Count Date:	2/6/2025	2/6/2025
Spike I.D.:	24-046	24-046
Spike Concentration (pCi/mL):	31.835	31.835
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.654	0.653
Target Conc. (pCi/L, g, F):	4.869	4.872
Uncertainty (Calculated):	0.229	0.229
Result (pCi/L, g, F):	5.502	5.506
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	1.075	1.058
Numerical Performance Indicator:	1.13	1.15
Percent Recovery:	113.00%	113.00%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	133%	133%
Lower % Recovery Limits:	73%	73%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS83358	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD83358	
Sample Result (pCi/L, g, F):	5.502	
Sample Result Counting Uncertainty (pCi/L, g, F):	1.075	
Sample Duplicate Result (pCi/L, g, F):	5.506	
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	1.058	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	-0.005	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	0.00%	
Duplicate Status vs Numerical Indicator:	N/A	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	32%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the RL.

Comments:

CLM 2/7/25

W02078

Arizona DHES requires qualification for any AZ DW samples reported where the QC does not meet the recommended limits of the Manual for the Certification of Labs Analyzing Drinking Waters, 5th Edition , section 7.7 of Chapter VI.

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Test:	Ra-228
Analyst:	JJS1
Date:	1/31/2025
Worklist:	83359
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3521831
MB concentration:	0.387
M/B 2 Sigma CSU:	0.385
MB MDC:	0.790
MB Numerical Performance Indicator:	1.97
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS83359	LCSD83359
Count Date:	2/5/2025	2/5/2025
Spike I.D.:	23-043	23-043
Decay Corrected Spike Concentration (pCi/mL):	33.657	33.657
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.816	0.815
Target Conc. (pCi/L, g, F):	4.124	4.129
Uncertainty (Calculated):	0.202	0.202
Result (pCi/L, g, F):	3.780	3.578
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.883	0.862
Numerical Performance Indicator:	-0.74	-1.22
Percent Recovery:	91.66%	86.65%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS83359	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD83359	
Sample Result (pCi/L, g, F):	3.780	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.883	
Sample Duplicate Result (pCi/L, g, F):	3.578	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.862	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	0.322	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	5.62%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	36%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

Mar/Jul/25

Suc 2/4/25

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

April 07, 2025

Jake Humphrey
Evergy, Inc.
818 S Kansas Avenue
Topeka, KS 66612

RE: Project: TEC BASA New Compliance Wells
Pace Project No.: 60471159

Dear Jake Humphrey:

Enclosed are the analytical results for sample(s) received by the laboratory on March 15, 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 National - Mt. Juliet
- Pace Analytical Services - Kansas City

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

Sincerely,

Alice Spiller

Alice Spiller
alice.spiller@pacelabs.com
(913)599-5665
PM Lab Management

Enclosures

cc: Samantha Kaney, Haley & Aldrich
Melanie Satanek, Haley & Aldrich, Inc.
Adriana Sosa, Haley & Aldrich, Inc.
Nick Williams, Haley Aldrich

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Lenexa, KS 66219
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CERTIFICATIONS

Project: TEC BASA New Compliance Wells
Pace Project No.: 60471159

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

Pace Analytical Services National

12065 Lebanon Road, Mt. Juliet, TN 37122
Alabama Certification #: 40660
Alaska Certification 17-026
Arizona Certification #: AZ0612
Arkansas Certification #: 88-0469
California Certification #: 2932
Canada Certification #: 1461.01
Colorado Certification #: TN00003
Connecticut Certification #: PH-0197
DOD Certification: #1461.01
EPA# TN00003
Florida Certification #: E87487
Georgia DW Certification #: 923
Georgia Certification: NELAP
Idaho Certification #: TN00003
Illinois Certification #: 200008
Indiana Certification #: C-TN-01
Iowa Certification #: 364
Kansas Certification #: E-10277
Kentucky UST Certification #: 16
Kentucky Certification #: 90010
Louisiana Certification #: AI30792
Louisiana DW Certification #: LA180010
Maine Certification #: TN0002
Maryland Certification #: 324
Massachusetts Certification #: M-TN003
Michigan Certification #: 9958
Minnesota Certification #: 047-999-395
Mississippi Certification #: TN00003
Missouri Certification #: 340
Montana Certification #: CERT0086
Nebraska Certification #: NE-OS-15-05
Nevada Certification #: TN-03-2002-34
New Hampshire Certification #: 2975
New Jersey Certification #: TN002
New Mexico DW Certification
New York Certification #: 11742
North Carolina Aquatic Toxicity Certification #: 41
North Carolina Drinking Water Certification #: 21704
North Carolina Environmental Certificate #: 375
North Dakota Certification #: R-140
Ohio VAP Certification #: CL0069
Oklahoma Certification #: 9915
Oregon Certification #: TN200002
Pennsylvania Certification #: 68-02979
Rhode Island Certification #: LAO00356
South Carolina Certification #: 84004
South Dakota Certification
Tennessee DW/Chem/Micro Certification #: 2006
Texas Certification #: T 104704245-17-14
Texas Mold Certification #: LAB0152
USDA Soil Permit #: P330-15-00234
Utah Certification #: TN00003
Vermont Dept. of Health: ID# VT-2006
Virginia Certification #: VT2006
Virginia Certification #: 460132
Washington Certification #: C847
West Virginia Certification #: 233
Wisconsin Certification #: 998093910
Wyoming UST Certification #: via A2LA 2926.01
A2LA-ISO 17025 Certification #: 1461.01
A2LA-ISO 17025 Certification #: 1461.02
AIHA-LAP/LLC EMLAP Certification #:100789

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Lenexa, KS 66219
(913)599-5665

SAMPLE SUMMARY

Project: TEC BASA New Compliance Wells
Pace Project No.: 60471159

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60471159001	**MW-11A-031225**	Water	03/12/25 12:25	03/15/25 08:00
60471159002	**MW-12-031225**	Water	03/12/25 15:00	03/15/25 08:00
60471159003	**MW-13-031225**	Water	03/12/25 15:15	03/15/25 08:00
60471159004	**MW-14-031325**	Water	03/13/25 10:10	03/15/25 08:00

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SAMPLE ANALYTE COUNT

Project: TEC BASA New Compliance Wells
Pace Project No.: 60471159

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60471159001	**MW-11A-031225**	EPA 200.7	ARMN	4	PASI-K
		EPA 200.7	ARMN	1	PASI-K
		EPA 200.8	JGP	3	PASI-K
		EPA 200.8	JGP	5	PASI-K
		EPA 353.2	CAT	1	PAN
		EPA 365.4	AEC	1	PAN
		SM 2320B	ARD	1	PAN
		SM 3500-Fe B#4	DLJ	1	PASI-K
		SM 4500-S-2 D	DLJ	1	PASI-K
		SM 5310C	BMT	1	PASI-K
		SM 5310C	BMT	1	PASI-K
60471159002	**MW-12-031225**	EPA 200.7	ARMN	4	PASI-K
		EPA 200.7	ARMN	1	PASI-K
		EPA 200.8	JGP	3	PASI-K
		EPA 200.8	JGP	5	PASI-K
		EPA 353.2	CAT	1	PAN
		EPA 365.4	AEC	1	PAN
		SM 2320B	ARD	1	PAN
		SM 3500-Fe B#4	DLJ	1	PASI-K
		SM 4500-S-2 D	DLJ	1	PASI-K
		SM 5310C	BMT	1	PASI-K
		SM 5310C	BMT	1	PASI-K
60471159003	**MW-13-031225**	EPA 200.7	ARMN	4	PASI-K
		EPA 200.7	ARMN	1	PASI-K
		EPA 200.8	JGP	3	PASI-K
		EPA 200.8	JGP	5	PASI-K
		EPA 353.2	CAT	1	PAN
		EPA 365.4	AEC	1	PAN
		SM 2320B	ARD	1	PAN
		SM 3500-Fe B#4	DLJ	1	PASI-K
		SM 4500-S-2 D	DLJ	1	PASI-K
		SM 5310C	BMT	1	PASI-K
		SM 5310C	BMT	1	PASI-K
60471159004	**MW-14-031325**	EPA 200.7	ARMN	4	PASI-K
		EPA 200.7	ARMN	1	PASI-K
		EPA 200.8	JGP	3	PASI-K
		EPA 200.8	JGP	5	PASI-K

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SAMPLE ANALYTE COUNT

Project: TEC BASA New Compliance Wells
Pace Project No.: 60471159

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 353.2	CAT	1	PAN
		EPA 365.4	AEC	1	PAN
		SM 2320B	ARD	1	PAN
		SM 3500-Fe B#4	DLJ	1	PASI-K
		SM 4500-S-2 D	DLJ	1	PASI-K
		SM 5310C	BMT	1	PASI-K
		SM 5310C	BMT	1	PASI-K

PAN = Pace National - Mt. Juliet
PASI-K = Pace Analytical Services - Kansas City

REPORT OF LABORATORY ANALYSIS

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(913)599-5665

PROJECT NARRATIVE

Project: TEC BASA New Compliance Wells
Pace Project No.: 60471159

Date: April 07, 2025

MW-11A-031225 (Lab ID: 60471159001)

- Wet Chemistry by Method 2320 B-2011 - Endpoint pH 4.5 Headspace

MW-12-031225 (Lab ID: 60471159002)

- Wet Chemistry by Method 2320 B-2011 - Endpoint pH 4.5 Headspace

MW-13-031225 (Lab ID: 60471159003)

- Wet Chemistry by Method 2320 B-2011 - Endpoint pH 4.5 Headspace

MW-14-031325 (Lab ID: 60471159004)

- Wet Chemistry by Method 2320 B-2011 - Endpoint pH 4.5 Headspace

LCS (Lab ID: R4191825-1)

- Wet Chemistry by Method 2320 B-2011 - Endpoint pH 4.5

BLANK (Lab ID: R4191825-2)

- Wet Chemistry by Method 2320 B-2011 - Endpoint pH 4.5

DUP (Lab ID: R4191825-4)

- Wet Chemistry by Method 2320 B-2011 - Endpoint pH 4.5

DUP (Lab ID: R4191825-6)

- Wet Chemistry by Method 2320 B-2011 - Endpoint pH 4.5

LCS (Lab ID: R4191852-1)

- Wet Chemistry by Method 2320 B-2011 - Endpoint pH 4.5

BLANK (Lab ID: R4191852-2)

- Wet Chemistry by Method 2320 B-2011 - Endpoint pH 4.5

DUP (Lab ID: R4191852-3)

- Wet Chemistry by Method 2320 B-2011 - Endpoint pH 4.5

DUP (Lab ID: R4191852-4)

- Wet Chemistry by Method 2320 B-2011 - Endpoint pH 4.5

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(913)599-5665

PROJECT NARRATIVE

Project: TEC BASA New Compliance Wells
Pace Project No.: 60471159

Method: **EPA 200.7**
Description: 200.7 Metals, Total
Client: Evergy_Haley & Aldrich
Date: April 07, 2025

General Information:
4 samples were analyzed for EPA 200.7 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 200.7 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 928167

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60471043003,60471152001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MSD (Lab ID: 3676270)
  - Sodium

QC Batch: 928235

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60471159004,60471162002

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 3676593)
  - Sodium
- MS (Lab ID: 3676595)
  - Magnesium
  - Sodium
- MSD (Lab ID: 3676594)
  - Sodium

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: TEC BASA New Compliance Wells
Pace Project No.: 60471159

Method: **EPA 200.7**
Description: 200.7 Metals, Dissolved
Client: Evergy_Haley & Aldrich
Date: April 07, 2025

General Information:
4 samples were analyzed for EPA 200.7 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 200.7 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA New Compliance Wells
Pace Project No.: 60471159

Method: **EPA 200.8**
Description: 200.8 MET ICPMS
Client: Evergy_Haley & Aldrich
Date: April 07, 2025

General Information:
4 samples were analyzed for EPA 200.8 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 200.8 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 928236

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60471161001,60471162003

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 3676598)
  - Manganese
- MSD (Lab ID: 3676599)
  - Manganese

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA New Compliance Wells
Pace Project No.: 60471159

Method: **EPA 200.8**
Description: 200.8 MET ICPMS, Dissolved
Client: Evergy_Haley & Aldrich
Date: April 07, 2025

General Information:
4 samples were analyzed for EPA 200.8 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 200.8 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA New Compliance Wells
Pace Project No.: 60471159

Method: **EPA 353.2**
Description: Wet Chemistry 353.2
Client: Evergy_Haley & Aldrich
Date: April 07, 2025

General Information:
4 samples were analyzed for EPA 353.2 by Pace National Mt. Juliet. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA New Compliance Wells
Pace Project No.: 60471159

Method: **EPA 365.4**
Description: Wet Chemistry 365.4
Client: Evergy_Haley & Aldrich
Date: April 07, 2025

General Information:
4 samples were analyzed for EPA 365.4 by Pace National Mt. Juliet. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA New Compliance Wells
Pace Project No.: 60471159

Method: **SM 2320B**
Description: Wet Chemistry 2320 B-2011
Client: Evergy_Haley & Aldrich
Date: April 07, 2025

General Information:
4 samples were analyzed for SM 2320B by Pace National Mt. Juliet. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

H3: Sample was received or analysis requested beyond the recognized method holding time.
- MW-11A-031225 (Lab ID: 60471159001)
- MW-12-031225 (Lab ID: 60471159002)
- MW-13-031225 (Lab ID: 60471159003)

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA New Compliance Wells
Pace Project No.: 60471159

Method: **SM 3500-Fe B#4**
Description: Iron, Ferrous
Client: Evergy_Haley & Aldrich
Date: April 07, 2025

General Information:
4 samples were analyzed for SM 3500-Fe B#4 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

H6: Analysis initiated outside of the 15 minute EPA required holding time.
- MW-11A-031225 (Lab ID: 60471159001)
- MW-12-031225 (Lab ID: 60471159002)
- MW-13-031225 (Lab ID: 60471159003)
- MW-14-031325 (Lab ID: 60471159004)

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA New Compliance Wells
Pace Project No.: 60471159

Method: **SM 4500-S-2 D**
Description: 4500S2D Sulfide, Total
Client: Evergy_Haley & Aldrich
Date: April 07, 2025

General Information:
4 samples were analyzed for SM 4500-S-2 D by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 928087

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60470739002

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 3676019)
  - Sulfide, Total
- MSD (Lab ID: 3676020)
  - Sulfide, Total

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA New Compliance Wells
Pace Project No.: 60471159

Method: **SM 5310C**
Description: 5310C TOC
Client: Evergy_Haley & Aldrich
Date: April 07, 2025

General Information:
4 samples were analyzed for SM 5310C by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 929418

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60471159001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 3681048)
  - Total Organic Carbon

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA New Compliance Wells
Pace Project No.: 60471159

Method: **SM 5310C**
Description: 5310C Dissolved Organic Carbon
Client: Evergy_Haley & Aldrich
Date: April 07, 2025

General Information:
4 samples were analyzed for SM 5310C by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: TEC BASA New Compliance Wells
Pace Project No.: 60471159

Sample: MW-11A-031225 **Lab ID: 60471159001** Collected: 03/12/25 12:25 Received: 03/15/25 08:00 Matrix: Water

Parameters	Results	Units	Report Limit	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							
Magnesium, Total Recoverable	**42.0**	mg/L	0.050	1	03/18/25 14:48	03/24/25 17:20	7439-95-4	
Potassium, Total Recoverable	**5.4**	mg/L	0.50	1	03/18/25 14:48	03/24/25 17:20	7440-09-7	
Sodium, Total Recoverable	**248**	mg/L	0.50	1	03/18/25 14:48	03/24/25 17:20	7440-23-5	
Total Hardness by 2340B, Total Recoverable	**766**	mg/L	0.50	1	03/18/25 14:48	03/24/25 17:20		
200.7 Metals, Dissolved	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City							
Magnesium, Dissolved	**44.4**	mg/L	0.050	1	03/18/25 09:30	03/28/25 15:31	7439-95-4	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City							
Aluminum, Total Recoverable	**0.27**	mg/L	0.050	1	03/18/25 09:30	03/20/25 11:23	7429-90-5	
Iron, Total Recoverable	**0.72**	mg/L	0.050	1	03/18/25 09:30	03/20/25 11:23	7439-89-6	
Manganese, Total Recoverable	**1.9**	mg/L	0.0010	1	03/18/25 09:30	03/23/25 12:58	7439-96-5	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City							
Aluminum, Dissolved	**<0.050**	mg/L	0.050	1	03/18/25 09:30	03/21/25 14:17	7429-90-5	
Arsenic, Dissolved	**0.0013**	mg/L	0.0010	1	03/18/25 09:30	03/21/25 14:17	7440-38-2	
Cobalt, Dissolved	**0.011**	mg/L	0.0010	1	03/18/25 09:30	03/21/25 14:17	7440-48-4	
Iron, Dissolved	**0.20**	mg/L	0.050	1	03/18/25 09:30	03/21/25 14:17	7439-89-6	
Manganese, Dissolved	**1.9**	mg/L	0.0010	1	03/18/25 09:30	03/21/25 14:17	7439-96-5	D9
Wet Chemistry 353.2	Analytical Method: EPA 353.2 Preparation Method: 353.2 Pace National - Mt. Juliet							
Nitrate-Nitrite (as N)	**<0.200**	mg/L	0.200	1	03/21/25 02:00	03/21/25 02:00	7727-37-9	
Wet Chemistry 365.4	Analytical Method: EPA 365.4 Preparation Method: 351.2/365.4 Pace National - Mt. Juliet							
Phosphorus	**<0.100**	mg/L	0.100	1	03/24/25 20:51	03/24/25 22:27	7723-14-0	
Wet Chemistry 2320 B-2011	Analytical Method: SM 2320B Preparation Method: 2320 B-2011 Pace National - Mt. Juliet							
Alkalinity, Total as CaCO3	**396**	mg/L	20.0	1	03/27/25 12:52	03/27/25 12:52		H3
Iron, Ferrous	Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City							
Iron, Ferrous	**0.74**	mg/L	0.20	1		03/19/25 13:01	15438-31-0	H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D Pace Analytical Services - Kansas City							
Sulfide, Total	**<0.050**	mg/L	0.050	1		03/17/25 13:57	18496-25-8	

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ANALYTICAL RESULTS

Project: TEC BASA New Compliance Wells
Pace Project No.: 60471159

Sample: MW-11A-031225 **Lab ID: 60471159001** Collected: 03/12/25 12:25 Received: 03/15/25 08:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
5310C TOC	Analytical Method: SM 5310C Pace Analytical Services - Kansas City							
Total Organic Carbon	**<1.0**	mg/L	1.0	1		04/02/25 18:16	7440-44-0	M1
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C Pace Analytical Services - Kansas City							
Dissolved Organic Carbon	**<1.0**	mg/L	1.0	1		03/28/25 22:18		

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ANALYTICAL RESULTS

Project: TEC BASA New Compliance Wells
Pace Project No.: 60471159

Sample: MW-12-031225 **Lab ID: 60471159002** Collected: 03/12/25 15:00 Received: 03/15/25 08:00 Matrix: Water

Parameters	Results	Units	Report Limit	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							
Magnesium, Total Recoverable	**39.3**	mg/L	0.050	1	03/18/25 09:30	03/25/25 20:19	7439-95-4	
Potassium, Total Recoverable	**5.2**	mg/L	0.50	1	03/18/25 09:30	03/25/25 20:19	7440-09-7	
Sodium, Total Recoverable	**275**	mg/L	0.50	1	03/18/25 09:30	03/25/25 20:19	7440-23-5	
Total Hardness by 2340B, Total Recoverable	**716**	mg/L	0.50	1	03/18/25 09:30	03/25/25 20:19		
200.7 Metals, Dissolved	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City							
Magnesium, Dissolved	**39.3**	mg/L	0.050	1	03/18/25 09:30	03/28/25 15:38	7439-95-4	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City							
Aluminum, Total Recoverable	**0.19**	mg/L	0.050	1	03/18/25 09:30	03/20/25 11:26	7429-90-5	
Iron, Total Recoverable	**5.5**	mg/L	0.050	1	03/18/25 09:30	03/20/25 11:26	7439-89-6	
Manganese, Total Recoverable	**1.6**	mg/L	0.0010	1	03/18/25 09:30	03/20/25 11:26	7439-96-5	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City							
Aluminum, Dissolved	**<0.050**	mg/L	0.050	1	03/18/25 09:30	03/21/25 14:23	7429-90-5	
Arsenic, Dissolved	**0.012**	mg/L	0.0010	1	03/18/25 09:30	03/21/25 14:23	7440-38-2	
Cobalt, Dissolved	**0.034**	mg/L	0.0010	1	03/18/25 09:30	03/21/25 14:23	7440-48-4	
Iron, Dissolved	**5.5**	mg/L	0.050	1	03/18/25 09:30	03/21/25 14:23	7439-89-6	D9
Manganese, Dissolved	**1.7**	mg/L	0.0010	1	03/18/25 09:30	03/21/25 14:23	7439-96-5	D9
Wet Chemistry 353.2	Analytical Method: EPA 353.2 Preparation Method: 353.2 Pace National - Mt. Juliet							
Nitrate-Nitrite (as N)	**0.453**	mg/L	0.200	1	03/21/25 02:02	03/21/25 02:02	7727-37-9	
Wet Chemistry 365.4	Analytical Method: EPA 365.4 Preparation Method: 351.2/365.4 Pace National - Mt. Juliet							
Phosphorus	**0.139**	mg/L	0.100	1	03/24/25 20:51	03/24/25 22:28	7723-14-0	
Wet Chemistry 2320 B-2011	Analytical Method: SM 2320B Preparation Method: 2320 B-2011 Pace National - Mt. Juliet							
Alkalinity, Total as CaCO3	**445**	mg/L	20.0	1	03/27/25 13:23	03/27/25 13:23		H3
Iron, Ferrous	Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City							
Iron, Ferrous	**7.6**	mg/L	0.40	1		03/19/25 13:01	15438-31-0	H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D Pace Analytical Services - Kansas City							
Sulfide, Total	**<0.050**	mg/L	0.050	1		03/17/25 13:57	18496-25-8	

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Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: TEC BASA New Compliance Wells
Pace Project No.: 60471159

Sample: MW-12-031225 **Lab ID: 60471159002** Collected: 03/12/25 15:00 Received: 03/15/25 08:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
5310C TOC	Analytical Method: SM 5310C Pace Analytical Services - Kansas City							
Total Organic Carbon	**2.3**	mg/L	1.0	1		04/02/25 18:57	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C Pace Analytical Services - Kansas City							
Dissolved Organic Carbon	**2.3**	mg/L	1.0	1		03/28/25 22:33		

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ANALYTICAL RESULTS

Project: TEC BASA New Compliance Wells
Pace Project No.: 60471159

Sample: MW-13-031225 **Lab ID: 60471159003** Collected: 03/12/25 15:15 Received: 03/15/25 08:00 Matrix: Water

Parameters	Results	Units	Report Limit	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							
Magnesium, Total Recoverable	**7.5**	mg/L	0.050	1	03/18/25 09:30	03/25/25 20:21	7439-95-4	
Potassium, Total Recoverable	**31.5**	mg/L	0.50	1	03/18/25 09:30	03/25/25 20:21	7440-09-7	
Sodium, Total Recoverable	**197**	mg/L	0.50	1	03/18/25 09:30	03/25/25 20:21	7440-23-5	
Total Hardness by 2340B, Total Recoverable	**537**	mg/L	0.50	1	03/18/25 09:30	03/25/25 20:21		
200.7 Metals, Dissolved	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City							
Magnesium, Dissolved	**6.3**	mg/L	0.050	1	03/18/25 09:30	03/28/25 15:40	7439-95-4	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City							
Aluminum, Total Recoverable	**1.4**	mg/L	0.050	1	03/18/25 09:30	03/20/25 11:30	7429-90-5	
Iron, Total Recoverable	**2.4**	mg/L	0.050	1	03/18/25 09:30	03/20/25 11:30	7439-89-6	
Manganese, Total Recoverable	**0.21**	mg/L	0.0010	1	03/18/25 09:30	03/20/25 11:30	7439-96-5	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City							
Aluminum, Dissolved	**<0.050**	mg/L	0.050	1	03/18/25 09:30	03/21/25 14:26	7429-90-5	
Arsenic, Dissolved	**0.0088**	mg/L	0.0010	1	03/18/25 09:30	03/21/25 14:26	7440-38-2	
Cobalt, Dissolved	**<0.0010**	mg/L	0.0010	1	03/18/25 09:30	03/21/25 14:26	7440-48-4	
Iron, Dissolved	**0.15**	mg/L	0.050	1	03/18/25 09:30	03/21/25 14:26	7439-89-6	
Manganese, Dissolved	**0.15**	mg/L	0.0010	1	03/18/25 09:30	03/21/25 14:26	7439-96-5	
Wet Chemistry 353.2	Analytical Method: EPA 353.2 Preparation Method: 353.2 Pace National - Mt. Juliet							
Nitrate-Nitrite (as N)	**<0.200**	mg/L	0.200	1	03/21/25 02:04	03/21/25 02:04	7727-37-9	
Wet Chemistry 365.4	Analytical Method: EPA 365.4 Preparation Method: 351.2/365.4 Pace National - Mt. Juliet							
Phosphorus	**0.269**	mg/L	0.100	1	03/24/25 20:51	03/24/25 22:29	7723-14-0	
Wet Chemistry 2320 B-2011	Analytical Method: SM 2320B Preparation Method: 2320 B-2011 Pace National - Mt. Juliet							
Alkalinity, Total as CaCO3	**99.6**	mg/L	20.0	1	03/27/25 13:28	03/27/25 13:28		H3
Iron, Ferrous	Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City							
Iron, Ferrous	**1.4**	mg/L	0.20	1		03/19/25 13:01	15438-31-0	H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D Pace Analytical Services - Kansas City							
Sulfide, Total	**0.080**	mg/L	0.050	1		03/17/25 13:57	18496-25-8	

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ANALYTICAL RESULTS

Project: TEC BASA New Compliance Wells
Pace Project No.: 60471159

Sample: MW-13-031225 **Lab ID: 60471159003** Collected: 03/12/25 15:15 Received: 03/15/25 08:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
5310C TOC	Analytical Method: SM 5310C Pace Analytical Services - Kansas City							
Total Organic Carbon	**1.7**	mg/L	1.0	1		04/02/25 19:17	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C Pace Analytical Services - Kansas City							
Dissolved Organic Carbon	**1.6**	mg/L	1.0	1		03/28/25 22:48		

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ANALYTICAL RESULTS

Project: TEC BASA New Compliance Wells
Pace Project No.: 60471159

Sample: MW-14-031325 **Lab ID: 60471159004** Collected: 03/13/25 10:10 Received: 03/15/25 08:00 Matrix: Water

Parameters	Results	Units	Report Limit	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							
Magnesium, Total Recoverable	**24.7**	mg/L	0.050	1	03/18/25 09:30	03/25/25 20:23	7439-95-4	
Potassium, Total Recoverable	**10.9**	mg/L	0.50	1	03/18/25 09:30	03/25/25 20:23	7440-09-7	
Sodium, Total Recoverable	**216**	mg/L	0.50	1	03/18/25 09:30	03/25/25 20:23	7440-23-5	M1,P6
Total Hardness by 2340B, Total Recoverable	**627**	mg/L	0.50	1	03/18/25 09:30	03/25/25 20:23		
200.7 Metals, Dissolved	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City							
Magnesium, Dissolved	**26.3**	mg/L	0.050	1	03/18/25 09:30	03/28/25 15:42	7439-95-4	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City							
Aluminum, Total Recoverable	**0.29**	mg/L	0.050	1	03/18/25 09:30	03/20/25 11:33	7429-90-5	
Iron, Total Recoverable	**0.57**	mg/L	0.050	1	03/18/25 09:30	03/20/25 11:33	7439-89-6	
Manganese, Total Recoverable	**0.12**	mg/L	0.0010	1	03/18/25 09:30	03/20/25 11:33	7439-96-5	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City							
Aluminum, Dissolved	**<0.050**	mg/L	0.050	1	03/18/25 09:30	03/21/25 14:28	7429-90-5	
Arsenic, Dissolved	**<0.0010**	mg/L	0.0010	1	03/18/25 09:30	03/21/25 14:28	7440-38-2	
Cobalt, Dissolved	**<0.0010**	mg/L	0.0010	1	03/18/25 09:30	03/21/25 14:28	7440-48-4	
Iron, Dissolved	**<0.050**	mg/L	0.050	1	03/18/25 09:30	03/21/25 14:28	7439-89-6	
Manganese, Dissolved	**0.11**	mg/L	0.0010	1	03/18/25 09:30	03/21/25 14:28	7439-96-5	
Wet Chemistry 353.2	Analytical Method: EPA 353.2 Preparation Method: 353.2 Pace National - Mt. Juliet							
Nitrate-Nitrite (as N)	**1.53**	mg/L	0.200	1	03/21/25 02:19	03/21/25 02:19	7727-37-9	
Wet Chemistry 365.4	Analytical Method: EPA 365.4 Preparation Method: 351.2/365.4 Pace National - Mt. Juliet							
Phosphorus	**<0.100**	mg/L	0.100	1	03/24/25 20:51	03/24/25 22:31	7723-14-0	
Wet Chemistry 2320 B-2011	Analytical Method: SM 2320B Preparation Method: 2320 B-2011 Pace National - Mt. Juliet							
Alkalinity, Total as CaCO3	**197**	mg/L	20.0	1	03/27/25 13:32	03/27/25 13:32		
Iron, Ferrous	Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City							
Iron, Ferrous	**0.43**	mg/L	0.20	1		03/19/25 13:01	15438-31-0	H6
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D Pace Analytical Services - Kansas City							
Sulfide, Total	**<0.050**	mg/L	0.050	1		03/17/25 13:57	18496-25-8	

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ANALYTICAL RESULTS

Project: TEC BASA New Compliance Wells
Pace Project No.: 60471159

Sample: MW-14-031325 **Lab ID: 60471159004** Collected: 03/13/25 10:10 Received: 03/15/25 08:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
5310C TOC	Analytical Method: SM 5310C Pace Analytical Services - Kansas City							
Total Organic Carbon	**<1.0**	mg/L	1.0	1		04/02/25 20:38	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C Pace Analytical Services - Kansas City							
Dissolved Organic Carbon	**1.1**	mg/L	1.0	1		03/28/25 23:04		

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QUALITY CONTROL DATA

Project: TEC BASA New Compliance Wells
Pace Project No.: 60471159

QC Batch: 928167
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: 60471159001

METHOD BLANK: 3676267 Matrix: Water
Associated Lab Samples: 60471159001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hardness, Total(SM 2340B)	mg/L	<0.50	0.50	03/24/25 17:28	
Magnesium	mg/L	<0.050	0.050	03/24/25 17:28	
Potassium	mg/L	<0.50	0.50	03/24/25 17:28	
Sodium	mg/L	<0.50	0.50	03/24/25 17:28	

LABORATORY CONTROL SAMPLE: 3676268

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Hardness, Total(SM 2340B)	mg/L	66.2	66.1	100	85-115	
Magnesium	mg/L	10	9.8	98	85-115	
Potassium	mg/L	10	10.0	100	85-115	
Sodium	mg/L	10	10.1	101	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3676269 3676270

Parameter	Units	60471043003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Hardness, Total(SM 2340B)	mg/L	155000 ug/L	66.2	66.2	218	223	96	103	70-130	2	20	
Magnesium	mg/L	9170 ug/L	10	10	18.6	19.0	94	98	70-130	2	20	
Potassium	mg/L	7630 ug/L	10	10	17.4	17.6	98	100	70-130	1	20	
Sodium	mg/L	296000 ug/L	10	10	306	311	100	159	70-130	2	20	M1

MATRIX SPIKE SAMPLE: 3676271

Parameter	Units	60471152001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Hardness, Total(SM 2340B)	mg/L	213000 ug/L	66.2	282	104	70-130	
Magnesium	mg/L	9310 ug/L	10	19.2	99	70-130	
Potassium	mg/L	6160 ug/L	10	16.2	101	70-130	
Sodium	mg/L	54500 ug/L	10	65.3	108	70-130	

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QUALITY CONTROL DATA

Project: TEC BASA New Compliance Wells
Pace Project No.: 60471159

QC Batch: 928235
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: 60471159002, 60471159003, 60471159004

METHOD BLANK: 3676591 Matrix: Water
Associated Lab Samples: 60471159002, 60471159003, 60471159004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hardness, Total(SM 2340B)	mg/L	<0.50	0.50	03/25/25 20:13	
Magnesium	mg/L	<0.050	0.050	03/25/25 20:13	
Potassium	mg/L	<0.50	0.50	03/25/25 20:13	
Sodium	mg/L	<0.50	0.50	03/25/25 20:13	

LABORATORY CONTROL SAMPLE: 3676592

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Hardness, Total(SM 2340B)	mg/L	66.2	66.9	101	85-115	
Magnesium	mg/L	10	10.1	101	85-115	
Potassium	mg/L	10	10.2	102	85-115	
Sodium	mg/L	10	10.5	105	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3676593 3676594

Parameter	Units	60471159004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Hardness, Total(SM 2340B)	mg/L	627	66.2	66.2	711	721	127	141	70-130	1	20	
Magnesium	mg/L	24.7	10	10	35.7	36.0	109	113	70-130	1	20	
Potassium	mg/L	10.9	10	10	21.8	21.9	110	111	70-130	1	20	
Sodium	mg/L	216	10	10	235	238	199	224	70-130	1	20	M1

MATRIX SPIKE SAMPLE: 3676595

Parameter	Units	60471162002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Hardness, Total(SM 2340B)	mg/L	696000 ug/L	66.2	736	60	70-130	
Magnesium	mg/L	83.8	10	90.4	66	70-130	M1
Potassium	mg/L	16.1	10	26.2	101	70-130	
Sodium	mg/L	4940	10	4870	-673	70-130	M1

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QUALITY CONTROL DATA

Project: TEC BASA New Compliance Wells
Pace Project No.: 60471159

QC Batch: 928238
QC Batch Method: EPA 200.7
Analysis Method: EPA 200.7
Analysis Description: 200.7 Metals, Dissolved
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60471159001, 60471159002, 60471159003, 60471159004

METHOD BLANK: 3676603 Matrix: Water
Associated Lab Samples: 60471159001, 60471159002, 60471159003, 60471159004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Magnesium, Dissolved	mg/L	<0.050	0.050	03/28/25 15:16	

LABORATORY CONTROL SAMPLE: 3676604

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Magnesium, Dissolved	mg/L	10	10.7	107	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3676605 3676606

Parameter	Units	60471155003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Magnesium, Dissolved	mg/L	31.0	10	10	41.3	41.2	103	101	70-130	0	20	

MATRIX SPIKE SAMPLE: 3676607

Parameter	Units	60471162002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Magnesium, Dissolved	mg/L	85.7	10	94.4	87	70-130	

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QUALITY CONTROL DATA

Project: TEC BASA New Compliance Wells
Pace Project No.: 60471159

QC Batch: 928236
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: 60471159001, 60471159002, 60471159003, 60471159004

METHOD BLANK: 3676596 Matrix: Water
Associated Lab Samples: 60471159001, 60471159002, 60471159003, 60471159004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	mg/L	<0.050	0.050	03/20/25 11:17	
Iron	mg/L	<0.050	0.050	03/20/25 11:17	
Manganese	mg/L	<0.0010	0.0010	03/20/25 11:17	

LABORATORY CONTROL SAMPLE: 3676597

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	mg/L	1	0.97	97	85-115	
Iron	mg/L	1	0.95	95	85-115	
Manganese	mg/L	0.04	0.039	97	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3676598 3676599

Parameter	Units	60471161001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum	mg/L	275 ug/L	1	1	1.4	1.4	108	113	70-130	4	20	
Iron	mg/L	693 ug/L	1	1	1.6	1.6	89	92	70-130	2	20	
Manganese	mg/L	1430 ug/L	0.04	0.04	1.5	1.5	178	212	70-130	1	20	M1

MATRIX SPIKE SAMPLE: 3676600

Parameter	Units	60471162003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum	mg/L	<0.50	1	1.2	114	70-130	
Iron	mg/L	<0.50	1	1.0	88	70-130	
Manganese	mg/L	0.12	0.04	0.16	103	70-130	

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QUALITY CONTROL DATA

Project: TEC BASA New Compliance Wells
Pace Project No.: 60471159

QC Batch: 928239
QC Batch Method: EPA 200.8
Analysis Method: EPA 200.8
Analysis Description: 200.8 MET Dissolved
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60471159001, 60471159002, 60471159003, 60471159004

METHOD BLANK: 3676608 Matrix: Water
Associated Lab Samples: 60471159001, 60471159002, 60471159003, 60471159004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	mg/L	<0.050	0.050	03/21/25 13:53	
Arsenic, Dissolved	mg/L	<0.0010	0.0010	03/21/25 13:53	
Cobalt, Dissolved	mg/L	<0.0010	0.0010	03/21/25 13:53	
Iron, Dissolved	mg/L	<0.050	0.050	03/21/25 13:53	
Manganese, Dissolved	mg/L	<0.0010	0.0010	03/21/25 13:53	

LABORATORY CONTROL SAMPLE: 3676609

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	mg/L	1	0.96	96	85-115	
Arsenic, Dissolved	mg/L	0.04	0.038	96	85-115	
Cobalt, Dissolved	mg/L	0.04	0.039	96	85-115	
Iron, Dissolved	mg/L	1	1.0	100	85-115	
Manganese, Dissolved	mg/L	0.04	0.039	97	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3676610 3676611

Parameter	Units	60471155004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum, Dissolved	mg/L	0.064	1	1	1.1	1.1	101	101	70-130	1	20	
Arsenic, Dissolved	mg/L	0.0013	0.04	0.04	0.041	0.041	98	98	70-130	0	20	
Cobalt, Dissolved	mg/L	0.0011	0.04	0.04	0.039	0.040	95	96	70-130	1	20	
Iron, Dissolved	mg/L	0.095	1	1	1.1	1.1	101	101	70-130	0	20	
Manganese, Dissolved	mg/L	0.36	0.04	0.04	0.39	0.40	93	110	70-130	2	20	

MATRIX SPIKE SAMPLE: 3676612

Parameter	Units	60471162003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	mg/L	<0.25	1	1.2	121	70-130	
Arsenic, Dissolved	mg/L	<0.0050	0.04	0.038	92	70-130	
Cobalt, Dissolved	mg/L	<0.0050	0.04	0.042	101	70-130	
Iron, Dissolved	mg/L	<0.25	1	0.90	85	70-130	
Manganese, Dissolved	mg/L	0.10	0.04	0.14	86	70-130	

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QUALITY CONTROL DATA

Project: TEC BASA New Compliance Wells
Pace Project No.: 60471159

QC Batch: 2477394
QC Batch Method: 2320 B-2011
Analysis Method: SM 2320B
Analysis Description: Wet Chemistry 2320 B-2011
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 60471159002, 60471159003, 60471159004

METHOD BLANK: R4191852-2 Matrix: Water
Associated Lab Samples: 60471159002, 60471159003, 60471159004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<20.0	20.0	03/27/25 08:10	

LABORATORY CONTROL SAMPLE: R4191852-1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	100	105	105	90.0-110	

SAMPLE DUPLICATE: R4191852-3

Parameter	Units	L1840169-02 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	164	166	0.719	20	

SAMPLE DUPLICATE: R4191852-4

Parameter	Units	L1840494-04 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	424	422	0.539	20	

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QUALITY CONTROL DATA

Project: TEC BASA New Compliance Wells
Pace Project No.: 60471159

QC Batch: 2477402
QC Batch Method: 2320 B-2011
Analysis Method: SM 2320B
Analysis Description: Wet Chemistry 2320 B-2011
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 60471159001

METHOD BLANK: R4191825-2 Matrix: Water
Associated Lab Samples: 60471159001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<20.0	20.0	03/27/25 08:10	

LABORATORY CONTROL SAMPLE: R4191825-1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	100	101	101	90.0-110	

SAMPLE DUPLICATE: R4191825-4

Parameter	Units	L1840461-01 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	561	559	0.453	20	

SAMPLE DUPLICATE: R4191825-6

Parameter	Units	L1840486-07 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	479	479	0.0990	20	

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QUALITY CONTROL DATA

Project: TEC BASA New Compliance Wells
Pace Project No.: 60471159

QC Batch: 2472916
QC Batch Method: 353.2
Analysis Method: EPA 353.2
Analysis Description: Wet Chemistry 353.2
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 60471159001, 60471159002, 60471159003, 60471159004

METHOD BLANK: R4189305-1 Matrix: Water
Associated Lab Samples: 60471159001, 60471159002, 60471159003, 60471159004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrate-Nitrite (as N)	mg/L	<0.200	0.200	03/21/25 01:09	

LABORATORY CONTROL SAMPLE: R4189305-2

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrate-Nitrite (as N)	mg/L	2.50	2.62	105	90.0-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R4189305-3 R4189305-4

Parameter	Units	L1837729-01 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrate-Nitrite (as N)	mg/L	0.369	2.50	2.50	3.01	2.99	106	105	90.0-110	0.700	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R4189305-5 R4189305-6

Parameter	Units	L1837783-02 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrate-Nitrite (as N)	mg/L	0.0450	2.50	2.50	2.64	2.67	104	105	90.0-110	1.39	20	

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QUALITY CONTROL DATA

Project: TEC BASA New Compliance Wells
Pace Project No.: 60471159

QC Batch: 2475399
QC Batch Method: 351.2/365.4
Analysis Method: EPA 365.4
Analysis Description: Wet Chemistry 365.4
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 60471159001, 60471159002, 60471159003, 60471159004

METHOD BLANK: R4190341-1 Matrix: Water
Associated Lab Samples: 60471159001, 60471159002, 60471159003, 60471159004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Phosphorus	mg/L	<0.100	0.100	03/24/25 22:06	

METHOD BLANK: R4190341-7 Matrix: Water
Associated Lab Samples: 60471159001, 60471159002, 60471159003, 60471159004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Phosphorus	mg/L	<0.100	0.100	03/24/25 22:45	

LABORATORY CONTROL SAMPLE: R4190341-2

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphorus	mg/L	3.37	3.58	106	85.0-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R4190341-3 R4190341-4

Parameter	Units	L1837652-04 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phosphorus	mg/L	ND	2.50	2.50	2.71	2.68	108	107	90.0-110	1.11	20	

SAMPLE DUPLICATE: R4190341-5

Parameter	Units	L1837655-01 Result	Dup Result	RPD	Max RPD	Qualifiers
Phosphorus	mg/L	0.0827	<0.100	11.0	20	

SAMPLE DUPLICATE: R4190341-6

Parameter	Units	L1837681-01 Result	Dup Result	RPD	Max RPD	Qualifiers
Phosphorus	mg/L	ND	<0.100	0.00	20	

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QUALITY CONTROL DATA

Project: TEC BASA New Compliance Wells
Pace Project No.: 60471159

QC Batch: 928269
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: 60471159001, 60471159002, 60471159003, 60471159004

METHOD BLANK: 3676656 Matrix: Water
Associated Lab Samples: 60471159001, 60471159002, 60471159003, 60471159004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron, Ferrous	mg/L	<0.20	0.20	03/19/25 13:01	H6

LABORATORY CONTROL SAMPLE: 3676657

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Ferrous	mg/L	2	2.0	100	90-110	H6

SAMPLE DUPLICATE: 3677354

Parameter	Units	60471162002 Result	Dup Result	RPD	Max RPD	Qualifiers
Iron, Ferrous	mg/L	0.35	0.33	5	20	H6

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QUALITY CONTROL DATA

Project: TEC BASA New Compliance Wells
Pace Project No.: 60471159

QC Batch: 928087
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: 60471159001, 60471159002, 60471159003, 60471159004

METHOD BLANK: 3676016 Matrix: Water
Associated Lab Samples: 60471159001, 60471159002, 60471159003, 60471159004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide, Total	mg/L	<0.050	0.050	03/17/25 13:57	

LABORATORY CONTROL SAMPLE: 3676017

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: 3676019 3676020

Parameter	Units	60470739002 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	ND	0.5	0.5	0.34	0.34	62	61	75-125	1	20	M1

SAMPLE DUPLICATE: 3676018

Parameter	Units	60470739002 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	ND	<0.050		20	

SAMPLE DUPLICATE: 3676021

Parameter	Units	60470841002 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	0.060	0.063	5	20	

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QUALITY CONTROL DATA

Project: TEC BASA New Compliance Wells
Pace Project No.: 60471159

QC Batch: 929418
QC Batch Method: SM 5310C
Analysis Method: SM 5310C
Analysis Description: 5310C Total Organic Carbon
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60471159001, 60471159002, 60471159003, 60471159004

METHOD BLANK: 3681046 Matrix: Water
Associated Lab Samples: 60471159001, 60471159002, 60471159003, 60471159004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	<1.0	1.0	04/02/25 17:36	

LABORATORY CONTROL SAMPLE: 3681047

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	5	4.7	93	80-120	

MATRIX SPIKE SAMPLE: 3681048

Parameter	Units	60471159001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	<1.0	5	4.6	75	80-120	M1

SAMPLE DUPLICATE: 3681049

Parameter	Units	60471159003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Organic Carbon	mg/L	1.7	1.7	0	25	

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QUALITY CONTROL DATA

Project: TEC BASA New Compliance Wells
Pace Project No.: 60471159

QC Batch: 929417
QC Batch Method: SM 5310C
Analysis Method: SM 5310C
Analysis Description: 5310C Dissolved Organic Carbon
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60471159001, 60471159002, 60471159003, 60471159004

METHOD BLANK: 3681042 Matrix: Water
Associated Lab Samples: 60471159001, 60471159002, 60471159003, 60471159004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dissolved Organic Carbon	mg/L	<1.0	1.0	03/28/25 19:27	

LABORATORY CONTROL SAMPLE: 3681043

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	5	5.0	100	80-120	

MATRIX SPIKE SAMPLE: 3681044

Parameter	Units	60471070001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	ND	5	5.1	95	80-120	

SAMPLE DUPLICATE: 3681045

Parameter	Units	60471070003 Result	Dup Result	RPD	Max RPD	Qualifiers
Dissolved Organic Carbon	mg/L	ND	<1.0		25	

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QUALIFIERS

Project: TEC BASA New Compliance Wells
Pace Project No.: 60471159

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.

SAMPLE QUALIFIERS

Sample: 60471159001
[1] Wet Chemistry by Method 2320 B-2011 - Endpoint pH 4.5 Headspace
Sample: 60471159002
[1] Wet Chemistry by Method 2320 B-2011 - Endpoint pH 4.5 Headspace
Sample: 60471159003
[1] Wet Chemistry by Method 2320 B-2011 - Endpoint pH 4.5 Headspace
Sample: 60471159004
[1] Wet Chemistry by Method 2320 B-2011 - Endpoint pH 4.5 Headspace
Sample: R4191825-1
[1] Wet Chemistry by Method 2320 B-2011 - Endpoint pH 4.5
Sample: R4191825-2
[1] Wet Chemistry by Method 2320 B-2011 - Endpoint pH 4.5
Sample: R4191825-4
[1] Wet Chemistry by Method 2320 B-2011 - Endpoint pH 4.5
Sample: R4191825-6
[1] Wet Chemistry by Method 2320 B-2011 - Endpoint pH 4.5

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QUALIFIERS

Project: TEC BASA New Compliance Wells
Pace Project No.: 60471159

SAMPLE QUALIFIERS

Sample: R4191852-1
[1] Wet Chemistry by Method 2320 B-2011 - Endpoint pH 4.5
Sample: R4191852-2
[1] Wet Chemistry by Method 2320 B-2011 - Endpoint pH 4.5
Sample: R4191852-3
[1] Wet Chemistry by Method 2320 B-2011 - Endpoint pH 4.5
Sample: R4191852-4
[1] Wet Chemistry by Method 2320 B-2011 - Endpoint pH 4.5
Sample: L1840169-02
[1] Wet Chemistry by Method 2320 B-2011 - Endpoint pH 4.5 Headspace
Sample: L1840461-01
[1] Wet Chemistry by Method 2320 B-2011 - Endpoint pH 4.5 Headspace
Sample: L1840486-07
[1] Wet Chemistry by Method 2320 B-2011 - Endpoint pH 4.5 Headspace
Sample: L1840494-04
[1] Wet Chemistry by Method 2320 B-2011 - Endpoint pH 4.5 Headspace

ANALYTE QUALIFIERS

D9	Dissolved result is greater than the total. Data is within laboratory control limits.
H3	Sample was received or analysis requested beyond the recognized 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.
P6	Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: TEC BASA New Compliance Wells
Pace Project No.: 60471159

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60471159001	**MW-11A-031225**	EPA 200.7	928167	EPA 200.7	928407
60471159002	**MW-12-031225**	EPA 200.7	928235	EPA 200.7	928311
60471159003	**MW-13-031225**	EPA 200.7	928235	EPA 200.7	928311
60471159004	**MW-14-031325**	EPA 200.7	928235	EPA 200.7	928311
60471159001	**MW-11A-031225**	EPA 200.7	928238	EPA 200.7	928310
60471159002	**MW-12-031225**	EPA 200.7	928238	EPA 200.7	928310
60471159003	**MW-13-031225**	EPA 200.7	928238	EPA 200.7	928310
60471159004	**MW-14-031325**	EPA 200.7	928238	EPA 200.7	928310
60471159001	**MW-11A-031225**	EPA 200.8	928236	EPA 200.8	928312
60471159002	**MW-12-031225**	EPA 200.8	928236	EPA 200.8	928312
60471159003	**MW-13-031225**	EPA 200.8	928236	EPA 200.8	928312
60471159004	**MW-14-031325**	EPA 200.8	928236	EPA 200.8	928312
60471159001	**MW-11A-031225**	EPA 200.8	928239	EPA 200.8	928309
60471159002	**MW-12-031225**	EPA 200.8	928239	EPA 200.8	928309
60471159003	**MW-13-031225**	EPA 200.8	928239	EPA 200.8	928309
60471159004	**MW-14-031325**	EPA 200.8	928239	EPA 200.8	928309
60471159001	**MW-11A-031225**	353.2	2472916	EPA 353.2	2472916
60471159002	**MW-12-031225**	353.2	2472916	EPA 353.2	2472916
60471159003	**MW-13-031225**	353.2	2472916	EPA 353.2	2472916
60471159004	**MW-14-031325**	353.2	2472916	EPA 353.2	2472916
60471159001	**MW-11A-031225**	351.2/365.4	2475399	EPA 365.4	2475399
60471159002	**MW-12-031225**	351.2/365.4	2475399	EPA 365.4	2475399
60471159003	**MW-13-031225**	351.2/365.4	2475399	EPA 365.4	2475399
60471159004	**MW-14-031325**	351.2/365.4	2475399	EPA 365.4	2475399
60471159001	**MW-11A-031225**	2320 B-2011	2477402	SM 2320B	2477402
60471159002	**MW-12-031225**	2320 B-2011	2477394	SM 2320B	2477394
60471159003	**MW-13-031225**	2320 B-2011	2477394	SM 2320B	2477394
60471159004	**MW-14-031325**	2320 B-2011	2477394	SM 2320B	2477394
60471159001	**MW-11A-031225**	SM 3500-Fe B#4	928269		
60471159002	**MW-12-031225**	SM 3500-Fe B#4	928269		
60471159003	**MW-13-031225**	SM 3500-Fe B#4	928269		
60471159004	**MW-14-031325**	SM 3500-Fe B#4	928269		
60471159001	**MW-11A-031225**	SM 4500-S-2 D	928087		
60471159002	**MW-12-031225**	SM 4500-S-2 D	928087		
60471159003	**MW-13-031225**	SM 4500-S-2 D	928087		
60471159004	**MW-14-031325**	SM 4500-S-2 D	928087		
60471159001	**MW-11A-031225**	SM 5310C	929418		
60471159002	**MW-12-031225**	SM 5310C	929418		
60471159003	**MW-13-031225**	SM 5310C	929418		
60471159004	**MW-14-031325**	SM 5310C	929418		
60471159001	**MW-11A-031225**	SM 5310C	929417		
60471159002	**MW-12-031225**	SM 5310C	929417		
60471159003	**MW-13-031225**	SM 5310C	929417		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: TEC BASA New Compliance Wells
Pace Project No.: 60471159

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60471159004	**MW-14-031325**	SM 5310C	929417		

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WO# : 60471159

60471159

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

Client Name: Evergy

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** 0.7 **Corr. Factor** _____ **Corrected** 0.8

Date and initials of person examining contents: MM 3/15/25

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#: 88727/88728	☑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

60471159

Scan QR Code for instructions

Company Name:	Evergy Kansas Central, Inc.	Contact/Report To:	Jake Humphrey
Street Address:	818 S Kansas Avenue, Topeka, KS 66612	Phone #:	(913)634-0605
		E-Mail:	jake.humphrey@evergy.com
		Cc E-Mail:	skaney@haleyaldrich.com
Customer Project #:			
Project Name:	TEC BASA NEW WELLS ADDITIONAL	Invoice To:	Tecumseh Center
		Invoice E-Mail:	evergyap@onlinecapturecenter.com
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	WSTR-2000094802
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [X] CT [ ] ET

County / State origin of sample(s): Kansas

Data Deliverables:
[ ] Level II [ ] Level III [ ] Level IV
[ ] EQUIS
[ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [ ] Yes [X] 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): [X] Yes [ ] No
Analysis: **Metals, Dissolved and DOC**

* 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 **: 2 3 3 3 3 3 6 3

Identify Container Preservative Type***: 2 2 1 5,6 3 3 4 3

**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	Analysis Requested: 200.7/200.8 Diss As,Co,Fe,Al,Mg,Mn	200.7/200.8 Mg,Na,K,Al,Fe,Mn	2320B Alkalinity	4500S2D Sulfide, Total	5310C Dissolved Organic Carbon	5310C TOC	Iron, Ferrous	NO2NO3, Total Phosphorus			Sample Comment
MW-11A-031225	GW	Grab	-	-	3/12/2025	1225	10	-	-	X	X	X	X	X	X	X	X			
MW-12-031225	GW	Grab	-	-	3/12/2025	1500	10	-	-	X	X	X	X	X	X	X	X			
MW-13-031225	GW	Grab	-	-	3/12/2025	1515	10	-	-	X	X	X	X	X	X	X	X			
MW-14-031325	GW	Grab	-	-	3/13/2025	1000	10	-	-	X	X	X	X	X	X	X	X			

Lab Use Only
Proj. Mgr: Alice Spiller
AcctNum / Client ID:
Table #:
Profile / Template: 16502
Prelog / Bottle Ord. ID: EZ 3230178

Preservation non-conformance identified for sample.

Additional Instructions from Pace®:
200.7 Metals include hardness
Profile 16502, line 5

Collected By:
(Printed Name) Jason R. Franks
Signature: Jason R. Franks

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)	On Ice:
	TB61	+0.1	0.7	0.8	

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
Jason R. Franks / SCS	03/15/2025 / 8:00	JAPAC	3/16/25 0900	
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 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: Evergy Profile/EZ # ez 3230178

Site: New Wells Additional 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	BP2F	BP3F
1	WT		1										2								1		1		1		1				1	
2	|		1										2								1		1		1		1				1	
3	|		1										2								1		1		1		1				1	
4	|		1										2								1		1		1		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: 60471159

Internal Transfer Chain of Custody

E007

☐ Rush Multiplier____X
☐ Samples Pre-Logged into eCOC

State Of Origin: KS
Cert. Needed: [X] Yes ☐ No
Owner Received Date: 3/15/2025 Results Requested By: 3/31/2025

Workorder: 60471159 **Workorder Name:** TEC BASA New Compliance Wells

Report To	Subcontract To
Alice Spiller Pace Analytical Kansas 9608 Loiret Blvd. Lenexa, KS 66219 Phone (913)599-5665	Pace National 12065 Lebanon Rd Mt. Juliet, TN 37122 Phone (615) 758-5858

						Preserved Containers						Requested Analysis												
Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	H2SO4						NO2NO3 pres	Total Phosphorus											LAB USE ONLY
1	MW-11A-031225	PS	3/12/2025 12:25	60471159001	Water	1						X	X											-01
2	MW-12-031225	PS	3/12/2025 15:00	60471159002	Water	1						X	X											-02
3	MW-13-031225	PS	3/12/2025 15:15	60471159003	Water	1						X	X											-03
4	MW-14-031325	PS	3/13/2025 10:10	60471159004	Water	1						X	X											-04
5																								

4837787

Transfers	Released By	Date/Time	Received By	Date/Time
1			Li Dawn 17 3-14-25	1 0900
2				
3				

Comments: OK

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.

Sample Receipt Checklist

COC Seal Present/Intact: ___Y___N___NP
COC Signed/Accurate: ___Y___N
Bottles arrive intact: ___Y___N
Correct bottles used: ___Y___N
Sufficient volume sent: ___Y___N
RA Screen <0.5 mR/hr: ___Y___N

If Applicable
VOA Zero Headspace: ___Y___N
Pres. Correct/Check: ___Y___N
Condition: ___NCF ___OK

TLA9 0.7+0.4=1.1
4033 6457 5126

L1837787

INTER_LABORATORY WORK ORDER # 60471159
(To be completed by sending lab)

Ship To:
Pace National
12065 Lebanon Rd
Mt. Juliet, TN 37122
Phone (615) 758-5858

Sending Project No:	60471159
Receiving Project No:	
Check Box for Consolidated Invoice:	☐
Date Prepared:	03/17/25
REQUESTED COMPLETION DATE:	**3/31/2025**

Sending Region	IR60-Kansas	Sending Project Mgr.	Alice Spiller
Receiving Region	IR850-Pace National	External Client	Evergy_Haley & Aldrich
State of Sample Origin	KS	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 Yes

WORK REQUESTED

Method Description	Container Type	Quantity of containers	Preservative	Quantity of Samples	Acode	Acode Desc
NO2NO3 pres	BP3S	4	H2SO4	4	SI-21WET	SUB PASI WET
Total Phosphorus			H2SO4	4	SI-21WET0	SUB PASI WTA

Special Requirements: Report C, QC Limits (C),Haley & Aldrich Equis (230),PEG Level BR (497)

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.

LOCATION: 6090-R2-S4A

Internal Transfer Chain of Custody

C171

Pace

☐ Rush Multiplier_____X
☐ Samples Pre-Logged into eCOC

State Of Origin: KS
Cert. Needed: [X] Yes ☐ No

Workorder: 60471159 **Workorder Name:** TEC BASA New Compliance Wells

Owner Received Date: 3/15/2025 **Results Requested By:** 3/31/2025

Report To	Subcontract To
Alice Spiller Pace Analytical Kansas 9608 Loiret Blvd. Lenexa, KS 66219 Phone (913)599-5665	Pace National 12065 Lebanon Rd Mt. Juliet, TN 37122 Phone (615) 758-5858

Requested Analysis

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers: Unpreserved	2320B Alkalinity	LAB USE ONLY
1	MW-11A-031225	PS	3/12/2025 12:25	60471159001	Water	1	X	-01
2	MW-12-031225	PS	3/12/2025 15:00	60471159002	Water	1	X	-02
3	MW-13-031225	PS	3/12/2025 15:15	60471159003	Water	1	X	-03
4	MW-14-031325	PS	3/13/2025 10:10	60471159004	Water	1	X	-04
5								

LS40472

Transfers	Released By	Date/Time	Received By	Date/Time
1			Ashley Pounders	03/21/2025 0900
2				
3				

Comments

PROCEED OUT OF HOLD FOR ALK.

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.*

TLM 3.3+0.4=3.7

4033 6457 9007

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	Condition: NCF	OK
RA Screen <0.5 mR/hr:	Y N		

Containers: 4

Pace®

Ship To:
Pace National
12065 Lebanon Rd
Mt. Juliet, TN 37122
Phone (615) 758-5858

Lebanon

INTER_LABORATORY WORK ORDER # 60471159
(To be completed by sending lab)

Sending Project No:	60471159
Receiving Project No:	
Check Box for Consolidated Invoice:	☐
Date Prepared:	03/26/25
REQUESTED COMPLETION DATE:	**3/31/2025**

Sending Region	IR60-Kansas	Sending Project Mgr.	Alice Spiller
Receiving Region	IR850-Pace National	External Client	Evergy_Haley & Aldrich
State of Sample Origin	KS	QC Deliverable	STD REPORT

All questions should be addressed to sending project manager.

Requested Reportable Units _____ Report Wet or Dry Weight? _____ ☐ IRWO Lab Need to run? Cert. Needed Yes

WORK REQUESTED						
Method Description	**Container Type**	**Quantity of containers**	**Preservative**	**Quantity of Samples**	**Acode**	**Acode Desc**
2320B Alkalinity	BP3U	4	Unpreserved	4	SI-21WET0	SUB PASI WTA

Special Requirements: Report C, QC Limits (C),Haley & Aldrich Equis (230),PEG Level BR (497)

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.

LOCATION: 6090-R2-S4A

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

April 11, 2025

Jake Humphrey
Evergy, Inc.
818 S Kansas Avenue
Topeka, KS 66612

RE: Project: TEC BASA New Compliance RADCHE
Pace Project No.: 60471160

Dear Jake Humphrey:

Enclosed are the analytical results for sample(s) received by the laboratory on March 14, 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 - Greensburg

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

Sincerely,

Alice Spiller

Alice Spiller
alice.spiller@pacelabs.com
(913)599-5665
PM Lab Management

Enclosures

cc: Samantha Kaney, Haley & Aldrich
Melanie Satanek, Haley & Aldrich, Inc.
Adriana Sosa, Haley & Aldrich, Inc.
Nick Williams, Haley Aldrich

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Lenexa, KS 66219
(913)599-5665

CERTIFICATIONS

Project: TEC BASA New Compliance RADCHE
Pace Project No.: 60471160

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

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Lenexa, KS 66219
(913)599-5665

SAMPLE SUMMARY

Project: TEC BASA New Compliance RADCHE
Pace Project No.: 60471160

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60471160001	**MW-11A-031225**	Water	03/12/25 12:25	03/14/25 08:00
60471160002	**MW-12-031225**	Water	03/12/25 15:00	03/14/25 08:00
60471160003	**MW-13-031225**	Water	03/12/25 15:15	03/14/25 08:00
60471160004	**MW-14-031325**	Water	03/13/25 10:00	03/14/25 08:00

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Lenexa, KS 66219
(913)599-5665

SAMPLE ANALYTE COUNT

Project: TEC BASA New Compliance RADCHE
Pace Project No.: 60471160

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60471160001	**MW-11A-031225**	EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
60471160002	**MW-12-031225**	EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
60471160003	**MW-13-031225**	EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
60471160004	**MW-14-031325**	EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

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Lenexa, KS 66219
(913)599-5665

PROJECT NARRATIVE

Project: TEC BASA New Compliance RADCHE
Pace Project No.: 60471160

Method: **EPA 903.1**
Description: 903.1 Radium 226
Client: Evergy_Haley & Aldrich
Date: April 11, 2025

General Information:
4 samples were analyzed for EPA 903.1 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

PROJECT NARRATIVE

Project: TEC BASA New Compliance RADCHE
Pace Project No.: 60471160

Method: **EPA 904.0**
Description: 904.0 Radium 228
Client: Evergy_Haley & Aldrich
Date: April 11, 2025

General Information:
4 samples were analyzed for EPA 904.0 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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

PROJECT NARRATIVE

Project: TEC BASA New Compliance RADCHE
Pace Project No.: 60471160

Method: **Total Radium Calculation**
Description: Total Radium 228+226
Client: Evergy_Haley & Aldrich
Date: April 11, 2025

General Information:
4 samples were analyzed for Total Radium Calculation by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: TEC BASA New Compliance RADCHE
Pace Project No.: 60471160

Sample: MW-11A-031225 **Lab ID: 60471160001** Collected: 03/12/25 12:25 Received: 03/14/25 08:00 Matrix: Water
PWS: Site ID: Sample Type:

Comments: • Upon receipt at the laboratory, 2.5 mls of nitric acid were added to the sample to meet the sample preservation requirement of pH <2 for radiochemistry analysis, where the method requires preservation, in drinking water. The samples were not preserved pH <2 within the required 5 days of collection (EPA 815-R-05-004).
• The sampler's name and signature were not listed on the COC.

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.616 ± 0.462 (0.661) C:NA T:97%**	pCi/L	04/07/25 14:26	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.938 ± 0.424 (0.685) C:80% T:88%**	pCi/L	04/07/25 14:46	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.55 ± 0.627 (0.685)**	pCi/L	04/08/25 11:48	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: TEC BASA New Compliance RADCHE
Pace Project No.: 60471160

Sample: MW-12-031225 **Lab ID: 60471160002** Collected: 03/12/25 15:00 Received: 03/14/25 08:00 Matrix: Water
PWS: Site ID: Sample Type:

Comments: • The sampler's name and signature were not listed on the COC.

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.227 ± 0.322 (0.545) C:NA T:98%**	pCi/L	04/07/25 14:26	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.875 ± 0.416 (0.694) C:79% T:85%**	pCi/L	04/07/25 14:46	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.10 ± 0.526 (0.694)**	pCi/L	04/08/25 11:48	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: TEC BASA New Compliance RADCHE
Pace Project No.: 60471160

Sample: MW-13-031225 **Lab ID: 60471160003** Collected: 03/12/25 15:15 Received: 03/14/25 08:00 Matrix: Water
PWS: Site ID: Sample Type:

Comments: • Sample 003 COC collection time = 15:15; sample bottles = 16:15 on original stickers but correction made w/secondary IRWO stickers from Pace-KS; client notified via SAF on 03/19/2025.
• The sampler's name and signature were not listed on the COC.

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.774 ± 0.520 (0.722) C:NA T:96%**	pCi/L	04/07/25 14:26	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**1.31 ± 0.561 (0.930) C:82% T:77%**	pCi/L	04/07/25 14:46	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**2.08 ± 0.765 (0.930)**	pCi/L	04/08/25 11:48	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: TEC BASA New Compliance RADCHE
Pace Project No.: 60471160

Sample: MW-14-031325 **Lab ID: 60471160004** Collected: 03/13/25 10:00 Received: 03/14/25 08:00 Matrix: Water
PWS: Site ID: Sample Type:

Comments: • The sampler's name and signature were not listed on the COC.

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**-0.137 ± 0.652 (1.25) C:NA T:93%**	pCi/L	04/07/25 14:40	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**1.20 ± 0.514 (0.824) C:80% T:86%**	pCi/L	04/07/25 14:47	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.20 ± 0.830 (1.25)**	pCi/L	04/08/25 11:48	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: TEC BASA New Compliance RADCHE
Pace Project No.: 60471160

QC Batch: 733954
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: 60471160001, 60471160002, 60471160003, 60471160004

METHOD BLANK: 3572684 Matrix: Water
Associated Lab Samples: 60471160001, 60471160002, 60471160003, 60471160004

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.104 ± 0.226 (0.417) C:NA T:95%	pCi/L	04/07/25 14:26	

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.

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QUALITY CONTROL - RADIOCHEMISTRY

Project: TEC BASA New Compliance RADCHE
Pace Project No.: 60471160

QC Batch: 733958
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: 60471160001, 60471160002, 60471160003, 60471160004

METHOD BLANK: 3572693 Matrix: Water
Associated Lab Samples: 60471160001, 60471160002, 60471160003, 60471160004

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.825 ± 0.398 (0.681) C:80% T:89%	pCi/L	04/07/25 14:46	

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.

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QUALIFIERS

Project: TEC BASA New Compliance RADCHE
Pace Project No.: 60471160

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.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: TEC BASA New Compliance RADCHE
Pace Project No.: 60471160

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60471160001	**MW-11A-031225**	EPA 903.1	733954		
60471160002	**MW-12-031225**	EPA 903.1	733954		
60471160003	**MW-13-031225**	EPA 903.1	733954		
60471160004	**MW-14-031325**	EPA 903.1	733954		
60471160001	**MW-11A-031225**	EPA 904.0	733958		
60471160002	**MW-12-031225**	EPA 904.0	733958		
60471160003	**MW-13-031225**	EPA 904.0	733958		
60471160004	**MW-14-031325**	EPA 904.0	733958		
60471160001	**MW-11A-031225**	Total Radium Calculation	738076		
60471160002	**MW-12-031225**	Total Radium Calculation	738076		
60471160003	**MW-13-031225**	Total Radium Calculation	738076		
60471160004	**MW-14-031325**	Total Radium Calculation	738076		

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WO# : 60471160

60471160

Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-LENE-0009_Samp	
	Revision: 2	Effective Date: 01/12/202

Client Name: Evergy

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 2.1 Corr. Factor _____ Corrected 2.2

Date and initials of person examining contents: MM 3/15/25

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: _____

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

6047160

Scan QR Code for instructions

Company Name:	Evergy Kansas Central, Inc.	Contact/Report To:	Jake Humphrey
Street Address:	818 S Kansas Avenue, Topeka, KS 66612	Phone #:	(913)634-0605
		E-Mail:	jake.humphrey@evergy.com
		Cc E-Mail:	skaney@haleyaldrich.com
Customer Project #:			
Project Name:	TEC BASA NEW WELLS RADCHEM	Invoice To:	Tecumseh Center
		Invoice E-Mail:	evergyap@onlinecapturecenter.com
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	WSTR-2000094802
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [X] CT [ ] ET

County / State origin of sample(s): Kansas

Data Deliverables:
[ ] Level II [ ] Level III [ ] Level IV
[ ] EQUIS
[ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [ ] Yes [X] 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 [X] 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	Radium 226	Radium 228+combined+QC Sheets
MW-11A-031225	GW	Grab	-	-	3/12/2025	1225	2	-	-	X	X
MW-12-031225	GW	Grab	-	-	3/12/2025	1500	2	-	-	X	X
MW-13-031225	GW	Grab	-	-	3/12/2025	1515	2	-	-	X	X
MW-14-031325	GW	Grab	-	-	3/13/2025	1000	2	-	-	X	X

Specify Container Size **: 1 1

Identify Container Preservative Type***: 2 2

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: Alice Spiller
AcctNum / Client ID:
Table #:
Profile / Template: 16502
Prelog / Bottle Ord. ID: EZ 3230177

Sample Comment

Preservation non-conformance identified for sample:

Additional Instructions from Pace®:

Collected By: (Printed Name) Jason R. Franks

Signature: Jason R. Franks

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)	On Ice:
			2.1	2.2	

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Jason R. Franks / SCS	03/15/2025 / 8:00		3-14 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: 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 ©

DC#_Title: ENV-FRM-LENE-0001 v07_Sample Container Count
Effective Date: 7/12/2024

Client: Evergy Profile/EZ # ez 3230177

Site: New Wells Radchem 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										
3																						2										
4																						2										
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#: 60471160

PM: AS Due Date: 04/11/25

CLIENT: Evergy_Haley

Internal Transfer Chain of Custody

Pace

☐ Rush Multiplier____X
☒ Samples Pre-Logged into eCOC

State Of Origin: KS
Cert. Needed: ☒ Yes ☐ No

Workorder: 60471160 **Workorder Name:** TEC BASA New Compliance RADCHE **Owner Received Date:** 3/14/2025 **Results Requested By:** 4/11/2025

Report To	Subcontract To
Alice Spiller Pace Analytical Kansas 9608 Loiret Blvd. Lenexa, KS 66219 Phone (913)599-5665	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: QC Sheets	Radium 226	Radium 228 and Combined										LAB USE ONLY
1	MW-11A-031225	PS	3/12/2025 12:25	60471160001	Water	2						X	X	X										001
2	MW-12-031225	PS	3/12/2025 15:00	60471160002	Water	2						X	X	X										002
3	MW-13-031225	PS	3/12/2025 15:15	60471160003	Water	2						X	X	X										003
4	MW-14-031325	PS	3/13/2025 10:00	60471160004	Water	2						X	X	X										004
5																								

Transfers	Released By	Date/Time	Received By	Date/Time
1			[signature]	3.18.25 1000
2				
3				

Comments

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# : 30764194

30764194

DC#_Title: ENV-FRM-GBUR-0088 v07_ Greensburg

Effective Date: 01/04/2024

WO# : 30764194

PM: CMC Due Date: 03/28/25

CLIENT: PACE_60_LEKS

Client Name: Pace Analytical Kansas

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other

Tracking Number: 4033 6457 4417

Initial / Date

Examined By: JML 3/18/25

Labeled By: JML 3/18/25

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# 180341 **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: -Includes date/time/ID Matrix: WT	✓	✓ JML 3/18/25		5. Sample 003 COC = 15:15 bottles = 16:15 on 2 grab 1 stickers but correction made w/ secondary stickers
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: exceptions: VOA, coliform, TOC, O&G, Phenolics, Radon, non-aqueous matrix	✓			16. added 2.5 mL HNO_3 to both BPINs in Sample 001
All containers meet method preservation requirements:		✓		Initial when completed: JML Date/Time of Preservation: 3/18/25 23:00 Lot# of added Preservative: #3021485
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: JML Date: 3/18/25 Survey Meter SN: 2501438

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

Page 1 of 1

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Test:	Ra-226
Analyst:	LL1
Date:	3/20/2025
Batch ID:	84141
Matrix:	

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3572684
MB concentration:	0.104
	0.226
MB MDC:	0.417
MB Numerical Performance Indicator:	0.90
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS84141	**LCSD84141**
Count Date:	4/7/2025	4/7/2025
Spike I.D.:	24-046	24-046
Spike Concentration (pCi/mL):	31.832	31.832
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.653	0.651
Target Conc. (pCi/L, g, F):	4.873	4.887
Uncertainty (Calculated):	0.229	0.230
Result (pCi/L, g, F):	5.608	5.811
	1.140	1.152
Numerical Performance Indicator:	1.24	1.54
Percent Recovery:	115.07%	118.89%
Status vs Numerical Indicator:	Pass	Pass
Status vs Recovery:	N/A	N/A
Upper % Recovery Limits:	133%	133%
Lower % Recovery Limits:	73%	73%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Matrix Spike Result:		
Sample Matrix Spike Duplicate Result:		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS84141	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD84141	
Sample Result (pCi/L, g, F):	5.608	
	1.140	
Sample Duplicate Result (pCi/L, g, F):	5.811	
	1.152	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	-0.245	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	3.27%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	N/A	
% RPD Limit:	32%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Sample Matrix Spike Duplicate Result:		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the RL.

Comments:

CLM 4/7/25

RLS 4-8-25

Quality Control Sample Performance Assessment

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Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test:	Ra-228
Analyst:	JJS1
Date:	4/1/2025
Worklist:	84142
Matrix:	WT

Method Blank Assessment	
MB Sample ID	3572693
MB concentration:	0.825
M/B 2 Sigma CSU:	0.398
MB MDC:	0.681
MB Numerical Performance Indicator:	4.06
MB Status vs Numerical Indicator:	Fail*
MB Status vs. MDC:	See Comment*

✓

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS84142	**LCSD84142**
Count Date:	4/7/2025	4/7/2025
Spike I.D.:	23-043	23-043
Decay Corrected Spike Concentration (pCi/mL):	32.985	32.985
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.817	0.819
Target Conc. (pCi/L, g, F):	4.036	4.029
Uncertainty (Calculated):	0.198	0.197
Result (pCi/L, g, F):	3.510	4.173
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.868	0.964
Numerical Performance Indicator:	-1.16	0.29
Percent Recovery:	86.96%	103.58%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS84142	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD84142	
Sample Result (pCi/L, g, F):	3.510	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.868	
Sample Duplicate Result (pCi/L, g, F):	4.173	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.964	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	-1.003	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	17.44%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	36%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:
*The method blank result is below the reporting limit for this analysis and is acceptable. ✓

VAL
4/8/25

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

April 09, 2025

Jake Humphrey
Evergy, Inc.
818 S Kansas Avenue
Topeka, KS 66612

RE: Project: TEC BASA NEW WELLS
Pace Project No.: 60471161

Dear Jake Humphrey:

Enclosed are the analytical results for sample(s) received by the laboratory on March 15, 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,

Alice Spiller

Alice Spiller
alice.spiller@pacelabs.com
(913)599-5665
PM Lab Management

Enclosures

cc: Samantha Kaney, Haley & Aldrich
Melanie Satanek, Haley & Aldrich, Inc.
Adriana Sosa, Haley & Aldrich, Inc.
Nick Williams, Haley Aldrich

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CERTIFICATIONS

Project: TEC BASA NEW WELLS
Pace Project No.: 60471161

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

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SAMPLE SUMMARY

Project: TEC BASA NEW WELLS
Pace Project No.: 60471161

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60471161001	**MW-11A-031225**	Water	03/12/25 12:25	03/15/25 08:00
60471161002	**MW-12-031225**	Water	03/12/25 15:00	03/15/25 08:00
60471161003	**MW-13-031225**	Water	03/12/25 15:15	03/15/25 08:00
60471161004	**MW-14-031325**	Water	03/13/25 10:00	03/15/25 08:00

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SAMPLE ANALYTE COUNT

Project: TEC BASA NEW WELLS
Pace Project No.: 60471161

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60471161001	**MW-11A-031225**	EPA 200.7	ARMN	2	PASI-K
		EPA 6010	ARMN	1	PASI-K
		EPA 200.8	JGP	11	PASI-K
		EPA 245.1	MNG	1	PASI-K
		SM 2540C	MLD	1	PASI-K
		SM 4500-H+B	DLJ	1	PASI-K
		EPA 300.0	AAA	3	PASI-K
60471161002	**MW-12-031225**	EPA 200.7	ARMN	2	PASI-K
		EPA 6010	ARMN	1	PASI-K
		EPA 200.8	JGP	11	PASI-K
		EPA 245.1	MNG	1	PASI-K
		SM 2540C	MLD	1	PASI-K
		SM 4500-H+B	DLJ	1	PASI-K
		EPA 300.0	AAA	3	PASI-K
60471161003	**MW-13-031225**	EPA 200.7	ARMN	2	PASI-K
		EPA 6010	ARMN	1	PASI-K
		EPA 200.8	JGP	11	PASI-K
		EPA 245.1	MNG	1	PASI-K
		SM 2540C	MLD	1	PASI-K
		SM 4500-H+B	MLD	1	PASI-K
		EPA 300.0	AAA	3	PASI-K
60471161004	**MW-14-031325**	EPA 200.7	ARMN	2	PASI-K
		EPA 6010	ARMN	1	PASI-K
		EPA 200.8	JGP	11	PASI-K
		EPA 245.1	MNG	1	PASI-K
		SM 2540C	MLD	1	PASI-K
		SM 4500-H+B	MLD	1	PASI-K
		EPA 300.0	AAA	3	PASI-K

PASI-K = Pace Analytical Services - Kansas City

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PROJECT NARRATIVE

Project: TEC BASA NEW WELLS
Pace Project No.: 60471161

Method: **EPA 200.7**
Description: 200.7 Metals, Total
Client: Evergy_Haley & Aldrich
Date: April 09, 2025

General Information:
4 samples were analyzed for EPA 200.7 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 200.7 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 928235

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60471159004,60471162002

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 3676593)
  - Calcium
- MS (Lab ID: 3676595)
  - Calcium
- MSD (Lab ID: 3676594)
  - Calcium

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: TEC BASA NEW WELLS
Pace Project No.: 60471161

Method: **EPA 6010**
Description: 6010 MET ICP
Client: Evergy_Haley & Aldrich
Date: April 09, 2025

General Information:
4 samples were analyzed for EPA 6010 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA NEW WELLS
Pace Project No.: 60471161

Method: **EPA 200.8**
Description: 200.8 MET ICPMS
Client: Evergy_Haley & Aldrich
Date: April 09, 2025

General Information:
4 samples were analyzed for EPA 200.8 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 200.8 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA NEW WELLS
Pace Project No.: 60471161

Method: **EPA 245.1**
Description: 245.1 Mercury
Client: Evergy_Haley & Aldrich
Date: April 09, 2025

General Information:
4 samples were analyzed for EPA 245.1 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 245.1 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA NEW WELLS
Pace Project No.: 60471161

Method: **SM 2540C**
Description: 2540C Total Dissolved Solids
Client: Evergy_Haley & Aldrich
Date: April 09, 2025

General Information:
4 samples were analyzed for SM 2540C by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

QC Batch: 928454

D6: The precision between the sample and sample duplicate exceeded laboratory control limits.
- DUP (Lab ID: 3677319)
  - Total Dissolved Solids

QC Batch: 928612

D6: The precision between the sample and sample duplicate exceeded laboratory control limits.
- DUP (Lab ID: 3678477)
  - Total Dissolved Solids

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA NEW WELLS
Pace Project No.: 60471161

Method: **SM 4500-H+B**
Description: 4500H+ pH, Electrometric
Client: Evergy_Haley & Aldrich
Date: April 09, 2025

General Information:
4 samples were analyzed for SM 4500-H+B by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

H3: Sample was received or analysis requested beyond the recognized method holding time.
- MW-11A-031225 (Lab ID: 60471161001)
- MW-12-031225 (Lab ID: 60471161002)

H6: Analysis initiated outside of the 15 minute EPA required holding time.
- MW-11A-031225 (Lab ID: 60471161001)
- MW-12-031225 (Lab ID: 60471161002)
- MW-13-031225 (Lab ID: 60471161003)
- MW-14-031325 (Lab ID: 60471161004)

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TEC BASA NEW WELLS
Pace Project No.: 60471161

Method: **EPA 300.0**
Description: 300.0 IC Anions 28 Days
Client: Evergy_Haley & Aldrich
Date: April 09, 2025

General Information:
4 samples were analyzed for EPA 300.0 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

QC Batch: 930001

L2: Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.

- LCS (Lab ID: 3683705)
  - Fluoride

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: 929940

E: Analyte concentration exceeded the calibration range. The reported result is estimated.

- MS (Lab ID: 3683484)
  - Sulfate

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: TEC BASA NEW WELLS
Pace Project No.: 60471161

Sample: MW-11A-031225 **Lab ID: 60471161001** Collected: 03/12/25 12:25 Received: 03/15/25 08:00 Matrix: Water

Parameters	Results	Units	Report Limit	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							
Boron, Total Recoverable	**0.43**	mg/L	0.10	1	03/18/25 09:30	03/25/25 20:28	7440-42-8	
Calcium, Total Recoverable	**238**	mg/L	0.20	1	03/18/25 09:30	03/25/25 20:28	7440-70-2	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Kansas City							
Lithium, Total Recoverable	**0.029**	mg/L	0.010	1	03/19/25 08:02	03/26/25 12:56	7439-93-2	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City							
Antimony, Total Recoverable	**<0.0010**	mg/L	0.0010	1	03/18/25 09:30	03/20/25 11:41	7440-36-0	
Arsenic, Total Recoverable	**0.0015**	mg/L	0.0010	1	03/18/25 09:30	03/20/25 11:41	7440-38-2	
Barium, Total Recoverable	**0.043**	mg/L	0.0010	1	03/18/25 09:30	03/20/25 11:41	7440-39-3	
Beryllium, Total Recoverable	**<0.00050**	mg/L	0.00050	1	03/18/25 09:30	03/20/25 11:41	7440-41-7	
Cadmium, Total Recoverable	**<0.00050**	mg/L	0.00050	1	03/18/25 09:30	03/20/25 11:41	7440-43-9	
Chromium, Total Recoverable	**<0.0010**	mg/L	0.0010	1	03/18/25 09:30	03/20/25 11:41	7440-47-3	
Cobalt, Total Recoverable	**0.010**	mg/L	0.0010	1	03/18/25 09:30	03/20/25 11:41	7440-48-4	
Lead, Total Recoverable	**<0.0010**	mg/L	0.0010	1	03/18/25 09:30	03/20/25 11:41	7439-92-1	
Molybdenum, Total Recoverable	**0.0023**	mg/L	0.0010	1	03/18/25 09:30	03/20/25 11:41	7439-98-7	
Selenium, Total Recoverable	**<0.0010**	mg/L	0.0010	1	03/18/25 09:30	03/20/25 11:41	7782-49-2	
Thallium, Total Recoverable	**<0.0010**	mg/L	0.0010	1	03/18/25 09:30	03/20/25 11:41	7440-28-0	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Kansas City							
Mercury	**<0.20**	ug/L	0.20	1	03/21/25 13:55	03/24/25 12:19	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City							
Total Dissolved Solids	**1740**	mg/L	100	1		03/19/25 15:49		MW
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Kansas City							
pH at 25 Degrees C	**7.1**	Std. Units	0.10	1		03/25/25 12:56		H3,H6
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City							
Chloride	**403**	mg/L	100	100		04/02/25 01:41	16887-00-6	CL
Fluoride	**0.25**	mg/L	0.20	1		04/02/25 01:13	16984-48-8	
Sulfate	**382**	mg/L	20.0	20		04/02/25 01:27	14808-79-8	

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ANALYTICAL RESULTS

Project: TEC BASA NEW WELLS
Pace Project No.: 60471161

Sample: MW-12-031225 **Lab ID: 60471161002** Collected: 03/12/25 15:00 Received: 03/15/25 08:00 Matrix: Water

Parameters	Results	Units	Report Limit	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							
Boron, Total Recoverable	**0.48**	mg/L	0.10	1	03/18/25 09:30	03/25/25 20:36	7440-42-8	
Calcium, Total Recoverable	**217**	mg/L	0.20	1	03/18/25 09:30	03/25/25 20:36	7440-70-2	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Kansas City							
Lithium, Total Recoverable	**0.032**	mg/L	0.010	1	03/19/25 08:02	03/26/25 12:58	7439-93-2	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City							
Antimony, Total Recoverable	**<0.0010**	mg/L	0.0010	1	03/18/25 09:30	03/20/25 11:50	7440-36-0	
Arsenic, Total Recoverable	**0.013**	mg/L	0.0010	1	03/18/25 09:30	03/20/25 11:50	7440-38-2	
Barium, Total Recoverable	**0.077**	mg/L	0.0010	1	03/18/25 09:30	03/20/25 11:50	7440-39-3	
Beryllium, Total Recoverable	**<0.00050**	mg/L	0.00050	1	03/18/25 09:30	03/20/25 11:50	7440-41-7	
Cadmium, Total Recoverable	**<0.00050**	mg/L	0.00050	1	03/18/25 09:30	03/20/25 11:50	7440-43-9	
Chromium, Total Recoverable	**<0.0010**	mg/L	0.0010	1	03/18/25 09:30	03/20/25 11:50	7440-47-3	
Cobalt, Total Recoverable	**0.035**	mg/L	0.0010	1	03/18/25 09:30	03/20/25 11:50	7440-48-4	
Lead, Total Recoverable	**0.0012**	mg/L	0.0010	1	03/18/25 09:30	03/20/25 11:50	7439-92-1	
Molybdenum, Total Recoverable	**0.0048**	mg/L	0.0010	1	03/18/25 09:30	03/20/25 11:50	7439-98-7	
Selenium, Total Recoverable	**<0.0010**	mg/L	0.0010	1	03/18/25 09:30	03/20/25 11:50	7782-49-2	
Thallium, Total Recoverable	**<0.0010**	mg/L	0.0010	1	03/18/25 09:30	03/20/25 11:50	7440-28-0	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Kansas City							
Mercury	**<0.20**	ug/L	0.20	1	03/21/25 13:55	03/24/25 12:21	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City							
Total Dissolved Solids	**1410**	mg/L	100	1		03/19/25 15:50		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Kansas City							
pH at 25 Degrees C	**6.7**	Std. Units	0.10	1		03/25/25 12:56		H3,H6
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City							
Chloride	**345**	mg/L	20.0	20		04/02/25 02:09	16887-00-6	CL
Fluoride	**0.32**	mg/L	0.20	1		04/02/25 01:55	16984-48-8	
Sulfate	**348**	mg/L	20.0	20		04/02/25 02:09	14808-79-8	

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ANALYTICAL RESULTS

Project: TEC BASA NEW WELLS
Pace Project No.: 60471161

Sample: MW-13-031225 **Lab ID: 60471161003** Collected: 03/12/25 15:15 Received: 03/15/25 08:00 Matrix: Water

Parameters	Results	Units	Report Limit	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							
Boron, Total Recoverable	**1.3**	mg/L	0.10	1	03/18/25 09:30	03/25/25 20:38	7440-42-8	
Calcium, Total Recoverable	**205**	mg/L	0.20	1	03/18/25 09:30	03/25/25 20:38	7440-70-2	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Kansas City							
Lithium, Total Recoverable	**<0.010**	mg/L	0.010	1	03/19/25 08:02	03/26/25 15:41	7439-93-2	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City							
Antimony, Total Recoverable	**<0.0010**	mg/L	0.0010	1	03/18/25 09:30	03/20/25 11:58	7440-36-0	
Arsenic, Total Recoverable	**0.014**	mg/L	0.0010	1	03/18/25 09:30	03/20/25 11:58	7440-38-2	
Barium, Total Recoverable	**0.083**	mg/L	0.0010	1	03/18/25 09:30	03/20/25 11:58	7440-39-3	
Beryllium, Total Recoverable	**<0.00050**	mg/L	0.00050	1	03/18/25 09:30	03/20/25 11:58	7440-41-7	
Cadmium, Total Recoverable	**<0.00050**	mg/L	0.00050	1	03/18/25 09:30	03/20/25 11:58	7440-43-9	
Chromium, Total Recoverable	**0.0028**	mg/L	0.0010	1	03/18/25 09:30	03/20/25 11:58	7440-47-3	
Cobalt, Total Recoverable	**0.0014**	mg/L	0.0010	1	03/18/25 09:30	03/20/25 11:58	7440-48-4	
Lead, Total Recoverable	**0.0013**	mg/L	0.0010	1	03/18/25 09:30	03/20/25 11:58	7439-92-1	
Molybdenum, Total Recoverable	**0.050**	mg/L	0.0010	1	03/18/25 09:30	03/20/25 11:58	7439-98-7	
Selenium, Total Recoverable	**0.0023**	mg/L	0.0010	1	03/18/25 09:30	03/20/25 11:58	7782-49-2	
Thallium, Total Recoverable	**<0.0010**	mg/L	0.0010	1	03/18/25 09:30	03/20/25 11:58	7440-28-0	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Kansas City							
Mercury	**<0.20**	ug/L	0.20	1	03/21/25 13:55	03/24/25 12:24	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City							
Total Dissolved Solids	**1550**	mg/L	66.7	1		03/19/25 15:50		D6
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Kansas City							
pH at 25 Degrees C	**7.9**	Std. Units	0.10	1		03/25/25 15:21		H6
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City							
Chloride	**186**	mg/L	20.0	20		04/02/25 02:50	16887-00-6	CL
Fluoride	**0.24**	mg/L	0.20	1		04/02/25 02:37	16984-48-8	
Sulfate	**679**	mg/L	100	100		04/02/25 03:04	14808-79-8	

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ANALYTICAL RESULTS

Project: TEC BASA NEW WELLS
Pace Project No.: 60471161

Sample: MW-14-031325 **Lab ID: 60471161004** Collected: 03/13/25 10:00 Received: 03/15/25 08:00 Matrix: Water

Parameters	Results	Units	Report Limit	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							
Boron, Total Recoverable	**1.0**	mg/L	0.10	1	03/18/25 09:30	03/25/25 20:40	7440-42-8	
Calcium, Total Recoverable	**226**	mg/L	0.20	1	03/18/25 09:30	03/25/25 20:40	7440-70-2	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Kansas City							
Lithium, Total Recoverable	**0.026**	mg/L	0.010	1	03/19/25 08:02	03/26/25 13:07	7439-93-2	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City							
Antimony, Total Recoverable	**<0.0010**	mg/L	0.0010	1	03/18/25 09:30	03/20/25 12:02	7440-36-0	
Arsenic, Total Recoverable	**0.0016**	mg/L	0.0010	1	03/18/25 09:30	03/20/25 12:02	7440-38-2	
Barium, Total Recoverable	**0.042**	mg/L	0.0010	1	03/18/25 09:30	03/20/25 12:02	7440-39-3	
Beryllium, Total Recoverable	**<0.00050**	mg/L	0.00050	1	03/18/25 09:30	03/20/25 12:02	7440-41-7	
Cadmium, Total Recoverable	**<0.00050**	mg/L	0.00050	1	03/18/25 09:30	03/20/25 12:02	7440-43-9	
Chromium, Total Recoverable	**0.0020**	mg/L	0.0010	1	03/18/25 09:30	03/20/25 12:02	7440-47-3	
Cobalt, Total Recoverable	**<0.0010**	mg/L	0.0010	1	03/18/25 09:30	03/20/25 12:02	7440-48-4	
Lead, Total Recoverable	**<0.0010**	mg/L	0.0010	1	03/18/25 09:30	03/20/25 12:02	7439-92-1	
Molybdenum, Total Recoverable	**0.022**	mg/L	0.0010	1	03/18/25 09:30	03/20/25 12:02	7439-98-7	
Selenium, Total Recoverable	**0.0018**	mg/L	0.0010	1	03/18/25 09:30	03/20/25 12:02	7782-49-2	
Thallium, Total Recoverable	**<0.0010**	mg/L	0.0010	1	03/18/25 09:30	03/20/25 12:02	7440-28-0	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Kansas City							
Mercury	**<0.20**	ug/L	0.20	1	03/21/25 13:55	03/24/25 12:26	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City							
Total Dissolved Solids	**1410**	mg/L	66.7	1		03/20/25 16:56		MW
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Kansas City							
pH at 25 Degrees C	**7.5**	Std. Units	0.10	1		03/25/25 15:21		H6
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City							
Chloride	**244**	mg/L	20.0	20		04/02/25 17:25	16887-00-6	
Fluoride	**0.29**	mg/L	0.20	1		04/02/25 17:11	16984-48-8	
Sulfate	**549**	mg/L	100	100		04/02/25 17:39	14808-79-8	

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QUALITY CONTROL DATA

Project: TEC BASA NEW WELLS
Pace Project No.: 60471161

QC Batch: 928815
QC Batch Method: EPA 245.1
Analysis Method: EPA 245.1
Analysis Description: 245.1 Mercury
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60471161001, 60471161002, 60471161003, 60471161004

METHOD BLANK: 3678984 Matrix: Water
Associated Lab Samples: 60471161001, 60471161002, 60471161003, 60471161004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	<0.20	0.20	03/24/25 11:35	

LABORATORY CONTROL SAMPLE: 3678985

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.6	93	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3678986 3678987

Parameter	Units	60471070005 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	4.5	4.8	90	96	70-130	7	20	

MATRIX SPIKE SAMPLE: 3678988

Parameter	Units	60471136001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	ND	5	3.9	77	70-130	

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QUALITY CONTROL DATA

Project: TEC BASA NEW WELLS
Pace Project No.: 60471161

QC Batch: 928235
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: 60471161001, 60471161002, 60471161003, 60471161004

METHOD BLANK: 3676591 Matrix: Water
Associated Lab Samples: 60471161001, 60471161002, 60471161003, 60471161004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Boron	mg/L	<0.10	0.10	03/25/25 20:13	
Calcium	mg/L	<0.20	0.20	03/25/25 20:13	

LABORATORY CONTROL SAMPLE: 3676592

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	mg/L	1	0.95	95	85-115	
Calcium	mg/L	10	10.1	101	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3676593 3676594

Parameter	Units	60471159004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Boron	mg/L	0.96	1	1	2.0	2.0	102	104	70-130	1	20	
Calcium	mg/L	210	10	10	226	229	156	188	70-130	1	20	M1

MATRIX SPIKE SAMPLE: 3676595

Parameter	Units	60471162002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Boron	mg/L	2.4	1	3.3	88	70-130	
Calcium	mg/L	141	10	146	52	70-130	M1

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QUALITY CONTROL DATA

Project: TEC BASA NEW WELLS
Pace Project No.: 60471161

QC Batch: 928236
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: 60471161001, 60471161002, 60471161003, 60471161004

METHOD BLANK: 3676596 Matrix: Water
Associated Lab Samples: 60471161001, 60471161002, 60471161003, 60471161004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	mg/L	<0.0010	0.0010	03/20/25 11:17	
Arsenic	mg/L	<0.0010	0.0010	03/20/25 11:17	
Barium	mg/L	<0.0010	0.0010	03/20/25 11:17	
Beryllium	mg/L	<0.00050	0.00050	03/20/25 11:17	
Cadmium	mg/L	<0.00050	0.00050	03/20/25 11:17	
Chromium	mg/L	<0.0010	0.0010	03/20/25 11:17	
Cobalt	mg/L	<0.0010	0.0010	03/20/25 11:17	
Lead	mg/L	<0.0010	0.0010	03/20/25 11:17	
Molybdenum	mg/L	<0.0010	0.0010	03/20/25 11:17	
Selenium	mg/L	<0.0010	0.0010	03/20/25 11:17	
Thallium	mg/L	<0.0010	0.0010	03/20/25 11:17	

LABORATORY CONTROL SAMPLE: 3676597

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.04	0.038	94	85-115	
Arsenic	mg/L	0.04	0.038	96	85-115	
Barium	mg/L	0.04	0.037	94	85-115	
Beryllium	mg/L	0.04	0.040	99	85-115	
Cadmium	mg/L	0.04	0.039	96	85-115	
Chromium	mg/L	0.04	0.039	97	85-115	
Cobalt	mg/L	0.04	0.038	96	85-115	
Lead	mg/L	0.04	0.038	96	85-115	
Molybdenum	mg/L	0.04	0.039	97	85-115	
Selenium	mg/L	0.04	0.040	100	85-115	
Thallium	mg/L	0.04	0.037	94	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3676598 3676599

Parameter	Units	60471161001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	<0.0010	0.04	0.04	0.037	0.038	92	95	70-130	2	20	
Arsenic	mg/L	0.0015	0.04	0.04	0.039	0.040	94	96	70-130	2	20	
Barium	mg/L	0.043	0.04	0.04	0.082	0.084	97	102	70-130	2	20	
Beryllium	mg/L	<0.00050	0.04	0.04	0.037	0.039	93	97	70-130	4	20	
Cadmium	mg/L	<0.00050	0.04	0.04	0.035	0.037	88	91	70-130	4	20	
Chromium	mg/L	<0.0010	0.04	0.04	0.033	0.034	81	83	70-130	2	20	

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QUALITY CONTROL DATA

Project: TEC BASA NEW WELLS
Pace Project No.: 60471161

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3676598 3676599

Parameter	Units	60471161001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cobalt	mg/L	0.010	0.04	0.04	0.049	0.051	96	102	70-130	4	20	
Lead	mg/L	<0.0010	0.04	0.04	0.039	0.040	97	98	70-130	1	20	
Molybdenum	mg/L	0.0023	0.04	0.04	0.040	0.041	95	98	70-130	3	20	
Selenium	mg/L	<0.0010	0.04	0.04	0.036	0.036	89	90	70-130	1	20	
Thallium	mg/L	<0.0010	0.04	0.04	0.038	0.039	95	97	70-130	2	20	

MATRIX SPIKE SAMPLE: 3676600

Parameter	Units	60471162003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	<5.0 ug/L	0.04	0.038	93	70-130	
Arsenic	mg/L	<0.0050	0.04	0.039	93	70-130	
Barium	mg/L	0.11	0.04	0.15	103	70-130	
Beryllium	mg/L	<0.0050	0.04	0.041	102	70-130	
Cadmium	mg/L	<2.5 ug/L	0.04	0.035	87	70-130	
Chromium	mg/L	<0.010	0.04	0.033	81	70-130	
Cobalt	mg/L	<0.010	0.04	0.041	97	70-130	
Lead	mg/L	<0.0050	0.04	0.040	100	70-130	
Molybdenum	mg/L	<0.0050	0.04	0.044	101	70-130	
Selenium	mg/L	<5.0 ug/L	0.04	0.035	88	70-130	
Thallium	mg/L	<5.0 ug/L	0.04	0.039	99	70-130	

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

QUALITY CONTROL DATA

Project: TEC BASA NEW WELLS
Pace Project No.: 60471161

QC Batch: 928234
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60471161001, 60471161002, 60471161003, 60471161004

METHOD BLANK: 3676587 Matrix: Water
Associated Lab Samples: 60471161001, 60471161002, 60471161003, 60471161004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lithium	mg/L	<0.010	0.010	03/26/25 12:21	

LABORATORY CONTROL SAMPLE: 3676588

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lithium	mg/L	1	0.99	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3676589 3676590

Parameter	Units	60471191001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lithium	mg/L	0.062	1	1	1.0	1.0	94	95	75-125	1	20	

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QUALITY CONTROL DATA

Project: TEC BASA NEW WELLS
Pace Project No.: 60471161

QC Batch: 928454 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60471161001, 60471161002, 60471161003

METHOD BLANK: 3677316 Matrix: Water
Associated Lab Samples: 60471161001, 60471161002, 60471161003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<5.0	5.0	03/19/25 15:41	

LABORATORY CONTROL SAMPLE: 3677317

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	1000	987	99	80-120	MW

SAMPLE DUPLICATE: 3677318

Parameter	Units	60470878001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	348	332	5	10	

SAMPLE DUPLICATE: 3677319

Parameter	Units	60471161003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1550	1250	21	10	D6

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QUALITY CONTROL DATA

Project: TEC BASA NEW WELLS
Pace Project No.: 60471161

QC Batch: 928612
QC Batch Method: SM 2540C
Analysis Method: SM 2540C
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60471161004

METHOD BLANK: 3677987 Matrix: Water
Associated Lab Samples: 60471161004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<5.0	5.0	03/20/25 16:56	

LABORATORY CONTROL SAMPLE: 3677988

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

SAMPLE DUPLICATE: 3678477

Parameter	Units	60470873006 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1570	1170	29	10	D6

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QUALITY CONTROL DATA

Project: TEC BASA NEW WELLS
Pace Project No.: 60471161

QC Batch: 929161
QC Batch Method: SM 4500-H+B
Analysis Method: SM 4500-H+B
Analysis Description: 4500H+B pH
Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60471161001, 60471161002

SAMPLE DUPLICATE: 3680203

Parameter	Units	60471123001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.2	7.2	0	5	H3,H6

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QUALITY CONTROL DATA

Project: TEC BASA NEW WELLS
Pace Project No.: 60471161

QC Batch: 929162
QC Batch Method: SM 4500-H+B
Analysis Method: SM 4500-H+B
Analysis Description: 4500H+B pH
Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60471161003, 60471161004

SAMPLE DUPLICATE: 3680204

Parameter	Units	60471161003 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.9	7.8	2	5	H6

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QUALITY CONTROL DATA

Project: TEC BASA NEW WELLS
Pace Project No.: 60471161

QC Batch: 929940
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: 60471161001, 60471161002, 60471161003

METHOD BLANK: 3683480 Matrix: Water
Associated Lab Samples: 60471161001, 60471161002, 60471161003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<1.0	1.0	04/01/25 12:46	
Fluoride	mg/L	<0.20	0.20	04/01/25 12:46	
Sulfate	mg/L	<1.0	1.0	04/01/25 12:46	

LABORATORY CONTROL SAMPLE: 3683481

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.6	93	90-110	
Fluoride	mg/L	2.5	2.4	95	90-110	
Sulfate	mg/L	5	4.6	93	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3683482 3683483

Parameter	Units	60471152001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	70.7	100	100	181	174	111	103	80-120	4	15	CL
Fluoride	mg/L	0.20	2.5	2.5	2.9	2.8	109	104	80-120	4	15	
Sulfate	mg/L	82.2	100	100	196	189	113	107	80-120	3	15	

MATRIX SPIKE SAMPLE: 3683484

Parameter	Units	60470693001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	6.3	5	11.1	95	80-120	
Fluoride	mg/L	ND	2.5	2.3	87	80-120	
Sulfate	mg/L	180	50	223	86	80-120	E

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QUALITY CONTROL DATA

Project: TEC BASA NEW WELLS
Pace Project No.: 60471161

QC Batch: 930001
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: 60471161004

METHOD BLANK: 3683704 Matrix: Water
Associated Lab Samples: 60471161004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<1.0	1.0	04/03/25 18:42	
Fluoride	mg/L	<0.20	0.20	04/03/25 18:42	
Sulfate	mg/L	<1.0	1.0	04/03/25 18:42	

LABORATORY CONTROL SAMPLE: 3683705

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	2.2	89	90-110	L2
Sulfate	mg/L	5	4.8	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3683706 3683707

Parameter	Units	60471512001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	12800	5000	5000	18700	18000	117	103	80-120	4	15	CL
Fluoride	mg/L	ND	2500	2500	2830	2690	113	107	80-120	5	15	
Sulfate	mg/L	ND	5000	5000	5110	5130	91	91	80-120	0	15	

MATRIX SPIKE SAMPLE: 3683708

Parameter	Units	60471512002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	4650	2500	7010	94	80-120	
Fluoride	mg/L	ND	1250	1450	116	80-120	
Sulfate	mg/L	ND	2500	2130	85	80-120	

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QUALIFIERS

Project: TEC BASA NEW WELLS
Pace Project No.: 60471161

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

CL	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.
D6	The precision between the sample and sample duplicate exceeded laboratory control limits.
E	Analyte concentration exceeded the calibration range. The reported result is estimated.
H3	Sample was received or analysis requested beyond the recognized method holding time.
H6	Analysis initiated outside of the 15 minute EPA required holding time.
L2	Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.
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.

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Lenexa, KS 66219
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: TEC BASA NEW WELLS
Pace Project No.: 60471161

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60471161001	**MW-11A-031225**	EPA 200.7	928235	EPA 200.7	928311
60471161002	**MW-12-031225**	EPA 200.7	928235	EPA 200.7	928311
60471161003	**MW-13-031225**	EPA 200.7	928235	EPA 200.7	928311
60471161004	**MW-14-031325**	EPA 200.7	928235	EPA 200.7	928311
60471161001	**MW-11A-031225**	EPA 3010	928234	EPA 6010	928531
60471161002	**MW-12-031225**	EPA 3010	928234	EPA 6010	928531
60471161003	**MW-13-031225**	EPA 3010	928234	EPA 6010	928531
60471161004	**MW-14-031325**	EPA 3010	928234	EPA 6010	928531
60471161001	**MW-11A-031225**	EPA 200.8	928236	EPA 200.8	928312
60471161002	**MW-12-031225**	EPA 200.8	928236	EPA 200.8	928312
60471161003	**MW-13-031225**	EPA 200.8	928236	EPA 200.8	928312
60471161004	**MW-14-031325**	EPA 200.8	928236	EPA 200.8	928312
60471161001	**MW-11A-031225**	EPA 245.1	928815	EPA 245.1	928847
60471161002	**MW-12-031225**	EPA 245.1	928815	EPA 245.1	928847
60471161003	**MW-13-031225**	EPA 245.1	928815	EPA 245.1	928847
60471161004	**MW-14-031325**	EPA 245.1	928815	EPA 245.1	928847
60471161001	**MW-11A-031225**	SM 2540C	928454		
60471161002	**MW-12-031225**	SM 2540C	928454		
60471161003	**MW-13-031225**	SM 2540C	928454		
60471161004	**MW-14-031325**	SM 2540C	928612		
60471161001	**MW-11A-031225**	SM 4500-H+B	929161		
60471161002	**MW-12-031225**	SM 4500-H+B	929161		
60471161003	**MW-13-031225**	SM 4500-H+B	929162		
60471161004	**MW-14-031325**	SM 4500-H+B	929162		
60471161001	**MW-11A-031225**	EPA 300.0	929940		
60471161002	**MW-12-031225**	EPA 300.0	929940		
60471161003	**MW-13-031225**	EPA 300.0	929940		
60471161004	**MW-14-031325**	EPA 300.0	930001		

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WO# : 60471161

60471161

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

Client Name: Evergy

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 1.8 Corr. Factor _____ Corrected 1.9

Date and initials of person examining contents: MM 3/15/25

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$_2$SO$_4$, HCl<2; NaOH>9 Sulfide, NaOH>10 Cyanide) (Exceptions: VOA, Micro, O&G, KS TPH, OK-DRO) LOT#: 88727/88728	☑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

60471161

Scan QR Code for instructions

Company Name:	Evergy Kansas Central, Inc.	Contact/Report To:	Jake Humphrey
Street Address:	818 S Kansas Avenue, Topeka, KS 66612	Phone #:	(913)634-0605
		E-Mail:	jake.humphrey@evergy.com
		Cc E-Mail:	skaney@haleyaldrich.com
Customer Project #:			
Project Name:	TEC BASA NEW WELLS	Invoice To:	Tecumseh Center
		Invoice E-Mail:	evergyap@onlinecapturecenter.com
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	WSTR-2000094802
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [X] CT [ ] ET

County / State origin of sample(s): Kansas

Data Deliverables:
[ ] Level II [ ] Level III [ ] Level IV
[ ] EQUIS
[ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [ ] Yes [X] 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 [X] 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 **: 3 2 2

Identify Container Preservative Type***: 2 1 1

**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: Alice Spiller
AcctNum / Client ID:
Table #:
Profile / Template: 16502
Prelog / Bottle Ord. ID: EZ 3230175

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	200.7/200.8/245.1/6010 Metals	2540C Total Dissolved Solids	300.0 Cl,F,SO4,pH	Sample Comment	Preservation non-conformance identified for sample.
MW-11A-031225	GW	Grab	-	-	3/12/2025	1225	3	-	-	X	X	X		
MW-12-031225	GW	Grab	-	-	3/12/2025	1500	3	-	-	X	X	X		
MW-13-031225	GW	Grab	-	-	3/12/2025	1515	3	-	-	X	X	X		
MW-14-031325	GW	Grab	-	-	3/13/2025	1000	3	-	-	X	X	X		

Additional Instructions from Pace®:
Metals; B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,mo,Se,Tl
Profile 16502, line 1

Collected By: (Printed Name) Jason R. Franks
Signature: Jason R. Franks

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)	On Ice:
	T301	+0.1 0800	1.8	1.9	

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
Jason R. Franks / SCS	03/15/2025 / 8:00	PACE	3/15/25	
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 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/

DC#_Title: ENV-FRM-LENE-0001 v07_Sample Container Count
Effective Date: 7/12/2024

Client: Evergy Profile/EZ # ez 3230175

Site: TEC BASA New Wells 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		1									
2	|																		1	1		1									
3	|																		1	1		1									
4	|																		2			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:

WO#: 60471161

PM: AS Due Date: 03/31/25

CLIENT: Evergy_Haley