

**2021 – 2022 ANNUAL GROUNDWATER MONITORING
AND CORRECTIVE ACTION REPORT**

AREA 2 POND, AREA 3 POND, AND AREA 4 POND
LAWRENCE ENERGY CENTER
LAWRENCE, KANSAS

by Haley & Aldrich, Inc.
Cleveland, Ohio



for Evergy Kansas Central, Inc.
Topeka, Kansas

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- 2-1 September 2021 Semi-Annual Sampling Event Laboratory Analytical Reports
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**2021 – 2022 Annual Groundwater Monitoring
and Corrective Action Report**

This Annual Groundwater Monitoring and Corrective Action Report documents the groundwater monitoring program for the Lawrence Energy Center Area 2 Pond (inactive), Area 3 Pond (inactive), and Area 4 Pond (inactive; collectively, Ash Ponds) consistent with applicable sections of Code of Federal Regulations Title 40 §§ 257.90 through 257.98, and describes activities conducted from July 2021 through June 2022 and documents compliance with the U.S. Environmental Protection Agency Coal Combustion Residual Rule. I certify that the 2021 – 2022 Annual Groundwater Monitoring and Corrective Action Report for the LEC Ash Ponds 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: Technical Expert 2
Company: Haley & Aldrich, Inc.

1. Introduction

This 2021 – 2022 Annual Groundwater Monitoring and Corrective Action Report (Annual Report) addresses the Area 2 Pond (inactive), Area 3 Pond (inactive), and Area 4 Pond (inactive; collectively, Ash Ponds) at the Lawrence Energy Center (LEC), operated by Evergy Kansas Central, Inc. (Evergy). This Annual Report was developed in accordance with the U.S. Environmental Protection Agency (USEPA) Coal Combustion Residuals (CCR) Rule (Rule) effective October 19, 2015, including subsequent revisions, specifically Code of Federal Regulations Title 40 (40 CFR) § 257.90(e). The Annual Report documents the groundwater monitoring system for the Ash Ponds consistent with applicable sections of § 257.90 through § 257.98, and describes activities conducted in the prior calendar year (July 2021 through June 2022) 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 narrative describing how each Rule requirement has been met.

Evergy prepared and placed in the facility's operating record a notification of intent to initiate closure of the Ash Ponds by December 17, 2015. Due to the USEPA Extension of Compliance Deadlines for Certain Inactive Surface Impoundments, Response to Partial Vacatur effective October 4, 2016, in accordance with the requirement under § 257.100(e)(1), the alternative reporting timeframes specified in § 257.100(e)(2) through (6) are applicable for the Ash Ponds.

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 (July 1, 2021), the Ash Ponds were operating under an assessment monitoring program in compliance with 40 CFR § 257.95.

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 (June 30, 2022), the Ash Ponds were operating under an assessment monitoring program in compliance with 40 CFR § 257.95 for all constituents except arsenic, lithium, and molybdenum. An assessment of corrective measures (CMA) was conducted in accordance with 40 CFR § 257.96 for arsenic, lithium, and molybdenum, which continue to be monitored under an assessment monitoring program in accordance with 40 CFR § 257.96(b).

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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)

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

- The Ash Ponds are operating under an assessment monitoring program; therefore, no statistical evaluations were completed on Appendix III constituents from July 2021 through June 2022.

1.1.3.2 40 CFR § 257.90(e)(6)(iii)(b)

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

An assessment monitoring program was initiated on January 13, 2020 for the Ash Ponds with a notification establishing assessment monitoring provided on February 12, 2020 to meet the requirements of 40 CFR § 257.95. The Ash Ponds remained in assessment monitoring from July 2021 through June 2022, with a corrective measures program implemented for arsenic, lithium, and molybdenum 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 (SSLs) above the groundwater protection standard (GWPS) identified from July 2021 through June 2022 for the March 2021 and September 2021 semi-annual assessment monitoring sampling events are listed in Table I. The statistical evaluation reports for semi-annual assessment monitoring sampling events from March 2021 and September 2021 were completed in July 2021 and January 2022, respectively, and are included as 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 October 12, 2020 for arsenic, lithium, and molybdenum at the Ash Ponds.

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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 from July 2021 through June 2022. 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.

The assessment of corrective measures was completed on March 11, 2021 for the Ash Ponds.

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 during the July 2021 through June 2022 reporting period for arsenic, lithium, and molybdenum at the Ash Ponds.

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 have been initiated from July 2021 through June 2022; 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 257.98, except as provided in paragraph (g) of this section.

Evergy has installed and certified a multi-unit groundwater monitoring system at the LEC Ash Ponds. The Ash Ponds are 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 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 LEC Ash Ponds 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 from July 2021 through June 2022.

2.2.1 Status of the Groundwater Monitoring Program

Appendix IV SSLs were detected above the GWPS for arsenic, lithium, and molybdenum during the March 2020 and September 2020 semi-annual assessment monitoring sampling events. Therefore, a CMA was initiated. The selection of remedy required under § 257.97 was ongoing from July 2021 through June 2022. Evergy is currently implementing an assessment monitoring program for all other constituents.

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2.2.2 Key Actions Completed

The 2020 – 2021 Annual Groundwater Monitoring and Corrective Action Report was completed in July 2021 for the period of July 2020 through June 2021. Statistical evaluation was completed in July 2021 on analytical data from the March 2021 semi-annual assessment monitoring sampling event. The statistical evaluation indicated Appendix IV SSLs above the GWPS for arsenic, lithium, and molybdenum at select downgradient monitoring wells, consistent with previous statistical evaluations.

A semi-annual assessment monitoring sampling event was completed in September 2021 for detected Appendix IV constituents identified from the December 2020 annual assessment monitoring sampling event. Statistical evaluation was completed in January 2022 on analytical data from the September 2021 semi-annual assessment monitoring sampling event.

Pursuant to §257.95(g), groundwater characterization samples were collected in September 2021 and March 2022 to assist in the determination of the nature and extent of Appendix IV SSLs in groundwater wells. Semi-annual status reports for the CMA were completed in September 2021 and March 2022 pursuant to §257.97(a).

An annual assessment monitoring sampling event was completed on December 6, 2021 to identify detected Appendix IV constituents for subsequent semi-annual sampling events in March 2022 and planned for September 2022. Semi-annual assessment monitoring sampling was completed in March 2022 for detected Appendix IV constituents identified during the December 2021 annual monitoring event. Statistical evaluation of the results from the March 2022 semi-annual assessment monitoring sampling event are due to be completed in July 2022 and will be reported in the next annual report.

2.2.3 Problems Encountered

No noteworthy problems (i.e., problems could include damaged wells, issues with sample collection or lack of sampling, or problems with analytical analysis) were encountered at the Ash Ponds from July 2021 through June 2022.

2.2.4 Actions to Resolve Problems

No problems were encountered at the Ash Ponds from July 2021 through June 2022; therefore, no actions to resolve the problems were required.

2.2.5 Project Key Activities for Upcoming Year

Key activities planned for July 2022 through June 2023 include the 2022 – 2023 Annual Groundwater Monitoring and Corrective Action Report, statistical evaluation of semi-annual assessment monitoring analytical data collected in March 2022, semi-annual assessment monitoring and subsequent statistical evaluations, and annual assessment monitoring. The continuation of the nature and extent investigation will continue into the next calendar year (July 2022 through June 2023). The next semi-annual status report for the CMA is due to be completed in September 2022. Evergy is also continuing to complete additional steps to characterize the nature and extent of arsenic, lithium, and molybdenum in groundwater at the Ash Ponds and is working towards conducting a public meeting and a selection of remedy.

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) – CCR Unit and Monitoring Well Network

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 LEC Ash Ponds is included in this report as Figure 1. A map showing monitoring wells utilized for the nature and extent of the Ash Ponds, are presented in 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;

No monitoring wells were installed or decommissioned from July 2021 through June 2022.

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 from each background and downgradient monitoring well were collected from July 2021 through June 2022. A summary including sample names, dates of sample collection, field parameters, and monitoring data obtained for the groundwater monitoring program for the Ash Ponds is presented in Table II of this report with corresponding laboratory analytical reports provided in Attachment 2. Groundwater potentiometric elevation contour maps, along with calculated groundwater flow rates and directions, associated with each groundwater monitoring sampling event from July 2021 through June 2022 are provided in Figures 3 through 5.

A summary including sample names, dates of sample collection, field parameters, and validated groundwater monitoring data obtained for the nature and extent investigation for the Ash Ponds is provided in Table III of this report, with corresponding laboratory analytical reports 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 January 13, 2020 with a notification establishing assessment monitoring provided on February 12, 2020 to meet the requirements of 40 CFR § 257.95. A CMA was implemented on October 12, 2020 for arsenic, lithium, and molybdenum in accordance with 40 CFR § 257.96. The Ash Ponds remained in assessment monitoring from July 2021 through June 2022 for all other constituents. Arsenic, lithium, and molybdenum 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 40 CFR §§ 257.90 through 257.95 of the Rule. It is understood that there are supplemental references in 40 CFR §§ 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 from July 2021 through June 2022.

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 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 January 13, 2020. Three rounds of assessment monitoring sampling were completed between July 2021 and June 2022. Analytical results for both downgradient and upgradient wells are provided in Table II. The background concentrations (upper tolerance limits) and GWPSs established for detected Appendix IV constituents for the Ash Ponds are included in Tables IV and V. The background concentrations and GWPSs provided in Tables IV and V were utilized for the statistical evaluations completed for the March 2021 and September 2021 semi-annual 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 Ash Ponds remained in assessment monitoring during July 2021 through June 2022 for all constituents other than arsenic, lithium, and molybdenum, 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.

On January 10, 2021, Evergy demonstrated the need for additional time beyond the regulatory timeline period of 90 days to complete the CMA. The Demonstration and Certification of Need for 60-Day Extension was provided in Attachment 2 of the 2020 – 2021 Annual Groundwater Monitoring and Corrective Actions report for the LEC Ash Ponds.

TABLES

TABLE I
STATISTICALLY SIGNIFICANT LEVELS OF APPENDIX IV CONSTITUENTS
MARCH AND SEPTEMBER 2021 SAMPLING EVENTS
EVERGY KANSAS CENTRAL, INC.
LAWRENCE ENERGY CENTER
LAWRENCE, KANSAS

Constituent	Sampling Event	Well ID	Groundwater Protection Standard (mg/L)
Arsenic	March 2021	MW-38	0.010
		MW-39	
		MW-40	
		MW-K	
		MW-L	
	September 2021	MW-38	
		MW-39	
		MW-40	
		MW-K	
		MW-L	
Lithium	March 2021	MW-38	0.040
		MW-39	
		MW-40	
		MW-K	
		MW-L	
	September 2021	MW-38	
		MW-K	
		MW-L	
Molybdenum	March 2021	MW-39	0.149
	September 2021	MW-39	

Notes:

mg/L = milligrams per liter

TABLE II
SUMMARY OF ANALYTICAL RESULTS - ASSESSMENT MONITORING
EVERGY KANSAS CENTRAL, INC.
LAWRENCE ENERGY CENTER
LAWRENCE, KANSAS

Location	Upgradient			Downgradient							
	MW-37			MW-38			MW-39				
Measure Point (TOC)	833.290			832.626			830.615				
Sample Name	MW-37-091621	MW-37-120621	MW-37-031522	MW-38-091621	MW-38-120621	MW-38-031522	MW-39-091621	LEC-AP-DUP-091621	MW-39-120621	LEC AP-DUP-20621	MW-39-031522
Sample Date	9/16/2021	12/6/2021	3/15/2022	9/16/2021	12/6/2021	3/15/2022	9/16/2021	9/16/2021	12/6/2021	12/6/2021	3/15/2022
Final Lab Report Date	11/11/2021	12/20/2021	4/4/2022	11/11/2021	12/20/2021	4/4/2022	11/11/2021	11/11/2021	12/20/2021	12/20/2021	4/4/2022
Final Lab Report Revision Date	11/30/2021	2/2/2022	4/22/2022	11/30/2021	2/2/2022	4/22/2022	11/30/2021	11/30/2021	2/2/2022	2/2/2022	4/22/2022
Final Radiation Lab Report Date	11/11/2021	2/2/2022	N/A	11/11/2021	2/2/2022	N/A	11/11/2021	11/11/2021	2/2/2022	2/2/2022	N/A
Final Radiation Lab Report Revision Date	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Lab Data Reviewed and Accepted	12/9/2021	2/9/2022	4/27/2022	12/9/2021	2/9/2022	4/27/2022	12/9/2021	12/9/2021	2/9/2022	2/9/2022	4/27/2022
Depth to Water (ft btoc)	11.05	11.55	13.71	16.71	16.94	17.00	15.48	-	15.85	-	15.69
Temperature (Deg C)	18.94	11.47	15.56	20.56	13.29	15.01	18.30	-	13.97	-	16.20
Conductivity (µS/cm)	1460	1510	1420	2030	2180	2170	3640	-	3950	-	4490
Turbidity (NTU)	3.9	14.7	20.5	0.0	16.7	0.0	0.0	-	4.0	-	0.0
Boron, Total (mg/L)	1.8	-	1.8	3.6	-	4.7	4.6	4.6	-	-	4.5
Calcium, Total (mg/L)	197	-	223	203	-	222	551	536	-	-	607
Chloride (mg/L)	38.5	-	36.4	108	-	110	319	301	-	-	308
Fluoride (mg/L)	0.30	< 0.20	<0.20	3.5	3.8	4.0	1.6	1.5	1.3	1.2	1.1
Sulfate (mg/L)	345	-	323	533	-	651	1550	1530	-	-	1480
pH (su)	7.2	-	7.1	7.6	-	7.5	7.3	7.5	-	-	7.2
TDS (mg/L)	995	-	993	1700	-	1720	3470	4270	-	-	2930
Antimony, Total (mg/L)	-	<0.0010	-	-	<0.0010	-	-	-	<0.0010	<0.0010	-
Arsenic (mg/L)	0.0054	0.0047	0.0057	0.037	0.019	0.019	0.011	0.012	0.012	0.011	0.011
Barium, Total (mg/L)	0.066	0.074	0.076	0.046	0.043	0.037	0.031	0.030	0.033	0.032	0.032
Beryllium, Total (mg/L)	-	< 0.0010	-	-	<0.0010	-	-	-	<0.0010	<0.0010	-
Cadmium, Total (mg/L)	-	<0.00050	-	-	<0.00050	-	-	-	<0.00050	<0.00050	-
Chromium, Total (mg/L)	-	<0.0050	-	-	<0.0050	-	-	-	<0.0050	<0.0050	-
Cobalt, Total (mg/L)	< 0.0010	<0.0010	<0.0010	< 0.0010	<0.0010	<0.0010	< 0.0030	< 0.0030	0.0010	<0.0010	0.0011
Lead, Total (mg/L)	-	<0.010	<0.010	-	<0.010	<0.010	-	-	<0.010	<0.010	<0.010
Lithium, Total (mg/L)	0.016	0.026	<0.030	0.053	0.057	0.056	0.031	0.031	0.046	0.043	0.037
Molybdenum, Total (mg/L)	0.10	0.095	0.094	0.057	0.061	0.078	0.20	0.20	0.21	0.21	0.22
Selenium, Total (mg/L)	-	<0.0010	-	-	<0.0010	-	-	-	<0.0010	<0.0010	-
Thallium, Total (mg/L)	-	<0.0010	-	-	<0.0010	-	-	-	<0.0010	<0.0010	-
Mercury, Total (mg/L)	-	<0.00020	-	-	<0.00020	-	-	-	<0.00020	<0.00020	-
Fluoride (mg/L)	0.30	< 0.20	<0.20	3.5	3.8	4.0	1.6	1.5	1.3	1.2	1.1
Radium-226 & 228 Combined (pCi/L)	0.0836 ± 0.636 (1.47)	0.407 ± 0.845 (1.73)	-	0.703 ± 0.864 (1.68)	0.167 ± 0.909 (2.05)	-	0.926 ± 0.847 (1.51)	0.333 ± 0.904 (1.82)	1.12 ± 0.990 (1.83)	0.864 ± 1.23 (2.34)	-

TABLE II
SUMMARY OF ANALYTICAL RESULTS - ASSESSMENT MONITORING
EVERGY KANSAS CENTRAL, INC.
LAWRENCE ENERGY CENTER
LAWRENCE, KANSAS

Location	Downgradient (continued)									
	MW-40			MW-K				MW-L		
Measure Point (TOC)	831.358			842.6				843.05		
Sample Name	MW-40-091621	MW-40-120621	MW-40-031522	MW-K-091621	MW-K-120621	MW-K-031522	DUP-AP-031522	MW-L-091621	MW-L-120621	MW-L-031522
Sample Date	9/16/2021	12/6/2021	3/15/2022	9/16/2021	12/6/2021	3/15/2022	3/15/2022	9/16/2021	12/6/2021	3/15/2022
Final Lab Report Date	11/11/2021	12/20/2021	4/4/2022	11/11/2021	12/20/2021	4/4/2022	4/4/2022	11/11/2021	12/20/2021	4/4/2022
Final Lab Report Revision Date	11/30/2021	2/2/2022	4/22/2022	11/30/2021	2/2/2022	4/22/2022	4/22/2022	11/30/2021	2/2/2022	4/22/2022
Final Radiation Lab Report Date	11/11/2021	2/2/2022	N/A	11/11/2021	2/2/2022	N/A	N/A	11/11/2021	2/2/2022	N/A
Final Radiation Lab Report Revision Date	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Lab Data Reviewed and Accepted	12/9/2021	2/9/2022	4/27/2022	12/9/2021	2/9/2022	4/27/2022	4/27/2022	12/9/2021	2/9/2022	4/27/2022
Depth to Water (ft btoc)	16.00	16.39	16.30	11.96	12.22	12.25	-	17.15	17.51	17.43
Temperature (Deg C)	19.95	12.76	16.22	19.70	15.10	16.60	-	26.21	14.35	16.75
Conductivity (µS/cm)	3250	3350	3190	3860	2840	2490	-	4790	5010	5690
Turbidity (NTU)	0.0	4.4	0.0	3.4	13.3	11.5	-	0.0	16.7	7.5
Boron, Total (mg/L)	4.0	-	4.2	3.1	-	2.8	3.0	2.5	-	2.3
Calcium, Total (mg/L)	429	-	443	358	-	216	217	552	-	538
Chloride (mg/L)	267	-	215	369	-	159	182	560	-	639
Fluoride (mg/L)	1.2	0.93	0.79	3.6	3.6	3.8	3.8	3.0	2.2	<0.20
Sulfate (mg/L)	1300	-	1280	1330	-	727	712	1870	-	2590
pH (su)	7.2	-	7.1	7.6	-	7.6	7.6	7.3	-	7.0
TDS (mg/L)	2660	-	2450	3460	-	1760	2610	4160	-	5190
Antimony, Total (mg/L)	-	<0.0010	-	-	<0.0010	-	-	-	<0.0010	-
Arsenic (mg/L)	0.015	0.014	0.014	0.065	0.061	0.10	0.097	0.026	0.026	0.025
Barium, Total (mg/L)	0.032	0.035	0.034	0.038	0.034	0.039	0.039	0.081	0.050	0.033
Beryllium, Total (mg/L)	-	<0.0010	-	-	<0.0010	-	-	-	<0.0010	-
Cadmium, Total (mg/L)	-	<0.00050	-	-	<0.00050	-	-	-	<0.00050	-
Chromium, Total (mg/L)	-	<0.0050	-	-	<0.0050	-	-	-	<0.0050	-
Cobalt, Total (mg/L)	< 0.0020	<0.0010	<0.0010	< 0.0020	<0.0010	<0.0010	<0.0010	< 0.0030	<0.0010	<0.0010
Lead, Total (mg/L)	-	<0.010	<0.010	-	<0.010	<0.010	<0.010	-	0.011	<0.010
Lithium, Total (mg/L)	0.036	0.042	0.042	0.057	0.054	0.049	0.050	0.080	0.0920	0.052
Molybdenum, Total (mg/L)	0.069	0.068	0.071	0.032	0.035	0.040	0.038	0.040	0.042	0.044
Selenium, Total (mg/L)	-	<0.0010	-	-	<0.0010	-	-	-	<0.0010	-
Thallium, Total (mg/L)	-	<0.0010	-	-	<0.0010	-	-	-	<0.0010	-
Mercury, Total (mg/L)	-	<0.00020	-	-	<0.00020	-	-	-	<0.00020	-
Fluoride (mg/L)	1.2	0.93	0.79	3.6	3.6	3.8	3.8	3.0	2.2	<0.20
Radium-226 & 228 Combined (pCi/L)	1.37 ± 0.873 (1.76)	1.49 ± 1.08 (2.00)	-	0.910 ± 0.817 (1.46)	1.32 ± 1.15 (2.04)	-	-	0.834 ± 0.821 (1.41)	1.27 ± 1.07 (1.85)	-

Notes & Abbreviations:

Radiological results are presented as activity plus or minus uncertainty with minimum detectable concentration (MDC).

Bold value: Detection above laboratory reporting limit or 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: 2021 - 2022 NATURE AND EXTENT MONITORING
 EVERGY KANSAS CENTRAL, INC.
 LAWRENCE ENERGY CENTER
 INACTIVE ASH PONDS
 LAWRENCE, KANSAS

Location	Downgradient (Continued)																	
	MW-A		MW-B		MW-C		MW-D		MW-G		MW-M		MW-N		MW-O		MW-P	
Measure Point (TOC)	830.52		830.11		827.63		829.43		843.21		828.93		826.81		830.32		829.63	
Sample Name	MW-A-091721	MW-A-032622	MW-B-100821	MW-B-031622	MW-C-091521	MW-C-031722	MW-D-091521	MW-D-031722	MW-G-091521	MW-G-031722	MW-M-091521	MW-M-031722	MW-N-091621	MW-N-031622	MW-O-091521	MW-O-031622	MW-P-091521	MW-P-031722
Sample Date	9/17/2021	3/16/2022	10/8/2021	3/16/2022	9/15/2021	3/17/2022	9/15/2021	3/17/2022	9/15/2021	3/16/2022	9/15/2021	3/17/2022	9/16/2021	3/16/2022	9/15/2021	3/16/2022	9/15/2021	3/17/2022
Final Lab Report Date	10/18/2021	5/3/2022	11/29/2021	5/3/2022	11/1/2021	5/3/2022	11/1/2021	5/3/2022	11/1/2021	5/3/2022	11/1/2021	5/3/2022	11/1/2021	5/3/2022	11/1/2021	5/3/2022	11/1/2021	5/3/2022
Final Lab Report Revision Date	11/17/2021	5/4/2022	N/A	5/4/2022	11/17/2021	5/4/2022	11/17/2021	5/4/2022	11/17/2021	5/4/2022	11/17/2021	5/4/2022	11/17/2021	5/4/2022	11/17/2021	5/4/2022	11/17/2021	5/4/2022
Final Radiation Lab Report Date	11/17/2021	N/A	11/29/2021	N/A	11/17/2021	N/A	11/17/2021	N/A	11/17/2021	N/A	11/17/2021	N/A	11/17/2021	N/A	11/17/2021	N/A	11/17/2021	N/A
Final Radiation Lab Report Revision Date	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Lab Data Reviewed and Accepted	12/17/2021	5/12/2022	12/17/2021	5/12/2022	12/17/2021	5/12/2022	12/17/2021	5/12/2022	12/17/2021	5/12/2022	12/17/2021	5/12/2022	12/17/2021	5/12/2022	12/17/2021	5/12/2022	12/17/2021	5/12/2022
Depth to Water (ft btoc)	14.60	14.75	14.53	14.54	12.06	12.53	13.23	13.70	26.02	26.80	13.94	14.35	11.38	11.74	15.36	15.30	15.10	15.44
Temperature (Deg C)	20.43	14.61	24.38	17.32	21.05	17.25	25.73	14.49	26.44	14.35	18.45	15.89	21.37	22.31	22.29	18.15	18.80	15.89
Conductivity (µS/cm)	1090	1210	1050	1070	992	1100	1010	1560	1240	1530	928	1040	1080	1020	4520	1400	1400	1350
Turbidity (NTU)	1.5	14.0	7.6	6.3	23.5	18.7	15.7	180	2.7	8.6	8.4	16.5	1.9	120	0.0	18.4	25.9	9.9
pH, Field (su)	6.96	6.97	6.41	7.12	6.75	6.93	6.68	6.93	7.05	7.11	6.71	6.83	7.40	7.50	7.36	7.6	7.25	6.88
Dissolved Oxygen, Field (mg/L)	0.00	0.00	0.0	0.0	0.00	0.00	4.25	0.12	3.73	0.24	1.90	0.36	9.51	0.19	0.00	0.00	1.84	0.0
Oxygen Reduction Potential, Field (mv)	-83	-127	198	31	35	47	-128	-152	74	-109	153	21	-135	-44	-167	-189	71	108
Ferrous Iron, Field (mg/L)	2.22	2.94	0.40	0.03	0.49	0.03	3.30	2.99	0.09	0.38	0.05	0.38	1.33	0.74	3.30	>3.00	0.12	0.03
Boron, Total (mg/L)	0.63	0.57	< 0.10	< 0.01	0.27	0.28	0.50	0.43	1.8	1.8	0.38	0.28	1.000	0.8	2.8	2.8	1.0	0.9
Calcium, Total (mg/L)	167	156	178	177	147	137	160	201	197	187	152	149	116	113	528	479	182	189
Chloride (mg/L)	42.2	41.8	10.8	12.9	30.3	28.7	7.0	67.4	21.2	18.4	15.2	7.0	24.3	19.9	537	474	< 1.0	40.8
Fluoride (mg/L)	0.34	< 0.20	0.57	0.28	0.38	< 0.20	0.38	< 0.20	0.25	< 0.20	0.46	< 0.20	4.1	3.2	3.5	3.2	0.36	1.5
Sulfate (mg/L)	154	140	66.7	83.7	116	96.9	100	132	418	402	97.1	57.0	111	64.3	1890	1640	70.4	230
pH (su)	7.1	7.1	7.3	7.1	7.5	7.3	6.9	7	7.2	7.2	7.1	7.2	7.6	7.5	7.4	7.4	7.6	7.4
TDS (mg/L)	745	727	589	667	621	665	672	644	1100	580	681	581	656	613	4010	3290	927	1090
Antimony, Total (mg/L)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic (mg/L)	0.0041	0.0090	0.0068	< 0.010	0.0045	0.0035	0.0045	0.0091	0.0052	0.023	0.0056	0.0048	0.0097	0.045	0.011	0.017	0.0050	0.0054
Barium, Total (mg/L)	0.071	0.11	0.29	0.27	0.15	0.1	0.14	0.23	0.044	0.04	0.15	0.17	0.090	0.240	0.040	0.044	0.046	0.06
Beryllium, Total (mg/L)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium, Total (mg/L)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium, Total (mg/L)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt, Total (mg/L)	< 0.0010	-	0.013	0.0060	0.0064	0.0011	< 0.0010	-	0.0011	-	0.0017	-	< 0.0010	-	< 0.0050	< 0.0010	< 0.0020	0.0027
Lead, Total (mg/L)	-	< 0.010	-	< 0.010	-	< 0.010	-	< 0.010	-	< 0.010	-	< 0.010	-	< 0.010	-	< 0.010	-	< 0.010
Lithium, Total (mg/L)	0.014	0.014	< 0.030	< 0.030	0.024	< 0.030	< 0.010	< 0.030	< 0.010	0.014	< 0.030	0.048	0.045	0.085	0.087	0.025	< 0.030	
Molybdenum, Total (mg/L)	0.022	0.022	0.021	0.0078	0.013	0.011	< 0.0010	< 0.0010	0.0051	0.0051	0.013	0.0022	0.035	0.026	0.055	0.067	0.043	0.033
Selenium, Total (mg/L)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Thallium, Total (mg/L)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury, Total (mg/L)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluoride (mg/L)	-	< 0.20	-	0.28	-	< 0.20	-	< 0.20	-	< 0.20	-	< 0.20	-	3.2	-	3.2	-	1.5
Radium-226 & 228 Combined (pCi/L)	2.29 ± 1.13 (1.78)	-	11.0 ± 2.06 (0.752)	-	2.90 ± 1.33 (1.97)	-	0.997 ± 0.775 (1.43)	-	1.25 ± 0.815 (1.43)	-	1.23 ± 0.929 (1.70)	-	1.80 ± 1.06 (1.88)	-	1.62 ± 1.04 (1.80)	-	2.48 ± 1.09 (1.52)	-
Arsenic, Dissolved (mg/L)	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	0.017	< 0.010	< 0.010	< 0.010	< 0.010	0.016	0.012	0.012	< 0.010	< 0.010
Iron, Dissolved (mg/L)	4.7	4.2	< 0.050	< 0.050	< 0.050	11.1	16.0	0.54	3.5	< 0.050	< 0.050	1.4	0.33	8.8	7.4	< 0.050	< 0.050	
Lithium, Dissolved (mg/L)	0.013	< 0.020	< 0.030	< 0.020	0.021	< 0.020	< 0.010	< 0.030	< 0.010	0.018	< 0.020	0.046	< 0.020	0.090	0.088	0.024	< 0.030	
Manganese, Dissolved (mg/L)	1.0	1.1	0.28	0.20	0.38	0.013	3.7	3.8	0.37	0.65	0.38	0.02	0.37	0.35	1.7	1.8	1.8	0.63
Molybdenum, Dissolved (mg/L)	0.022	0.022	< 0.020	0.024	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	0.036	0.030	0.058	0.061	0.045	0.035	
Ferrous Iron (mg/L)	< 0.2	< 0.20	-	< 0.20	0.76	< 0.20	0.23	0.42	< 0.2	< 0.20	< 0.20	< 0.20	< 0.20	0.20	< 0.20	< 0.20	< 0.20	
Iron, Total (mg/L)	5.8	8.7	0.26	< 0.050	6.0	0.2	9.5	20.1	0.60	4.20	0.81	0.36	1.5	11.6	8.0	11.3	1.9	1.8
Magnesium, Total (mg/L)	26.0	25.8	21.7	20.7	18.3	17.2	28.3	34.4	28.2	27.5	18.1	16.0	51.4	46.7	176	159	39.7	39.1
Manganese, Total (mg/L)	1.1	1.6	3.1	0.73	0.85	0.18	3.3	4.3	0.32	0.71	1.4	0.43	0.38	0.45	1.7	1.9	1.8	1.5
Potassium, Total (mg/L)	5.8	6.2	8.5	6.7	6.7	5.6	6.2	6.8	10.3	8.2	6.1	5.7	17.1	17.8	28.6	29.3	13.3	14.5
Sodium, Total (mg/L)	38.6	40.8	5.1	5.7	29.0	30.3	19.8	24.0	84.2	84.8	16.1	13.1	45.9	27.2	431	433	46.4	41.9
Orthophosphate (mg/L)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phosphorus (mg/L)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Residual Chlorine (mg/L)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alkalinity, Bicarbonate (mg/L)	395	391	406	448	314	363	470	488	310	320	376	410	429	472	222	250	392	440
Alkalinity, Carbonate (mg/L)	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0
Ammonia (as N) (mg/L)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ammonium (mg/L)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dissolved Organic Carbon (DOC) (mg/L)	2.1	2.1	1.4	2.7	1.8	1.8	4.6	5.5	3.0	4.5	1.6	1.7	2.1	3.2	1.7	7.6	2.0	4.7
Nitrate (as N) (mg/L)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrite (as N) (mg/L)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrite/Nitrate Nitrogen (mg/L)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrogen, Organic (mg/L)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sulfide (mg/L)	-	-	< 0.050	< 0.050	-	< 0.050	-	< 0.050	-	< 0.050	-	< 0.050	-	< 0.050	-	< 0.050	-	< 0.050
Total Kjeldahl Nitrogen (TKN) (mg/L)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Carbon (TOC) (mg/L)	1.8	1.8	1.7															

TABLE IV
ASSESSMENT GROUNDWATER MONITORING - DETECTED APPENDIX IV GWPS
MARCH 2021 SAMPLING EVENT
EVERGY KANSAS CENTRAL, INC.
LAWRENCE ENERGY CENTER
LAWRENCE, KANSAS

Well Number	Background Value ^{1,2}	GWPS
CCR Appendix-IV Arsenic, Total (mg/L)		
MW-37 (upgradient)	0.00943	NA
MW-38		0.010
MW-39		0.010
MW-40		0.010
MW-K		0.010
MW-L		0.010
CCR Appendix-IV Barium, Total (mg/L)		
MW-37 (upgradient)	0.0762	NA
MW-38		2
MW-39		2
MW-40		2
MW-K		2
MW-L		2
CCR Appendix-IV Cobalt, Total (mg/L)		
MW-37 (upgradient)	0.001 ³	NA
MW-38		0.006
MW-39		0.006
MW-40		0.006
MW-K		0.006
MW-L		0.006
CCR Appendix-IV Fluoride, Total (mg/L)		
MW-37 (upgradient)	0.463	NA
MW-38	5.500	5.5
MW-39		4.0
MW-40		4.0
MW-K		4.0
MW-L		4.0
CCR Appendix-IV Lithium, Total (mg/L)		
MW-37 (upgradient)	0.0216	NA
MW-38		0.040
MW-39		0.040
MW-40		0.040
MW-K		0.040
MW-L		0.040
CCR Appendix-IV Molybdenum, Total (mg/L)		
MW-37 (upgradient)	0.149	NA
MW-38		0.149
MW-39		0.149
MW-40		0.149
MW-K		0.149
MW-L		0.149
CCR Appendix-IV Radium-226 & 228 Combined (pCi/L)		
MW-37 (upgradient)	2.147	NA
MW-38		5
MW-39		5
MW-40		5
MW-K		5
MW-L		5

Notes and Abbreviations:

¹ Interwell background data collected from 03/07/2018 through 12/01/2020, unless otherwise noted.

² Intrawell background data collected from 03/07/2018 through 12/01/2020.

³ Interwell background data collected from 03/07/2018 through 3/18/2019.

CCR = Coal Combustion Residuals

GWPS = Groundwater Protection Standard

mg/L = milligrams per liter

NA = Not Applicable

pCi/L = picoCuries per Liter

TABLE V

**ASSESSMENT GROUNDWATER MONITORING - DETECTED APPENDIX IV GWPS
 SEPTEMBER 2021 SAMPLING EVENT
 EVERGY KANSAS CENTRAL, INC.
 LAWRENCE ENERGY CENTER
 LAWRENCE, KANSAS**

Well Number	Background Value ^{1,2}	GWPS
CCR Appendix-IV Arsenic, Total (mg/L)		
MW-37 (upgradient)	0.00943	NA
MW-38		0.010
MW-39		0.010
MW-40		0.010
MW-K		0.010
MW-L		0.010
CCR Appendix-IV Barium, Total (mg/L)		
MW-37 (upgradient)	0.0762	NA
MW-38		2
MW-39		2
MW-40		2
MW-K		2
MW-L		2
CCR Appendix-IV Cobalt, Total (mg/L)		
MW-37 (upgradient)	0.001 ³	NA
MW-38		0.006
MW-39		0.006
MW-40		0.006
MW-K		0.006
MW-L		0.006
CCR Appendix-IV Fluoride, Total (mg/L)		
MW-37 (upgradient)	0.463	NA
MW-38	5.500	5.5
MW-39		4.0
MW-40		4.0
MW-K		4.0
MW-L		4.0
CCR Appendix-IV Lithium, Total (mg/L)		
MW-37 (upgradient)	0.0216	NA
MW-38		0.040
MW-39		0.040
MW-40		0.040
MW-K		0.040
MW-L		0.040
CCR Appendix-IV Molybdenum, Total (mg/L)		
MW-37 (upgradient)	0.149	NA
MW-38		0.149
MW-39		0.149
MW-40		0.149
MW-K		0.149
MW-L		0.149
CCR Appendix-IV Radium-226 & 228 Combined (pCi/L)		
MW-37 (upgradient)	2.147	NA
MW-38		5
MW-39		5
MW-40		5
MW-K		5
MW-L		5

Notes and Abbreviations:

¹ Interwell background data collected from 03/07/2018 through 12/01/2020, unless otherwise noted.

² Intrawell background data collected from 03/07/2018 through 12/01/2020.

³ Interwell background data collected from 03/07/2018 through 9/16/2021.

CCR = Coal Combustion Residuals

GWPS = Groundwater Protection Standard

mg/L = milligrams per liter



NA = Not Applicable

pCi/L = picoCuries per Liter

FIGURES

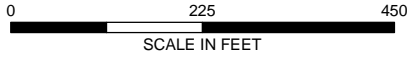


LEGEND

-  MONITORING WELL
-  ASH PONDS (INACTIVE)

NOTES:

1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.
2. AERIAL IMAGERY SOURCE: EVERGY, UNMANNED AERIAL SERVIS (UAS), 29 MARCH 2022
3. BASE MAP SOURCE: NEARMAP, 28 MARCH 2021



HALEY ALDRICH EVERGY KANSAS CENTRAL, INC.
LAWRENCE ENERGY CENTER
LAWRENCE, KANSAS

**ASH PONDS (INACTIVE)
CCR COMPLIANCE
MONITORING WELL
LOCATION MAP**






JULY 2022

FIGURE 1

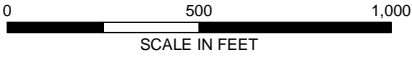


LEGEND

-  CCR COMPLIANCE MONITORING WELL
-  NATURE & EXTENT MONITORING WELL L
-  ASH PONDS (INACTIVE)

NOTES:

1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.
2. CCR = COAL COMBUSTION RESIDUAL
3. AERIAL IMAGERY SOURCE: EVERGY, 29 MARCH 2022
4. BASE MAP SOURCE: NEARMAP, 28 MARCH 2021



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

**ASH PONDS (INACTIVE)
NATURE AND EXTENT
MONITORING WELL
LOCATION MAP**



JULY 2022

FIGURE 2

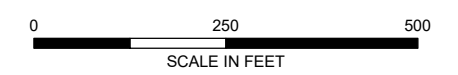


LEGEND

- MW-37** WELL NAME AND GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL (AMSL), SEPTEMBER 2021
- 822.24**
- MONITORING WELL
- ESTIMATED GROUNDWATER POTENTIOMETRIC OBSERVATION ELEVATION CONTOUR, 1-FT INTERVAL
- GROUNDWATER FLOW DIRECTION AND APPROXIMATE GROUNDWATER FLOW RATE (FEET/YEAR)
- ASH PONDS (INACTIVE)

NOTES

1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.
2. GROUNDWATER POTENTIOMETRIC ELEVATIONS WERE MEASURED 16 SEPTEMBER 2021.
3. THE GROUNDWATER FLOW RATE WAS APPROXIMATED USING THE HYDRAULIC GRADIENT CALCULATED FROM GROUNDWATER POTENTIOMETRIC ELEVATIONS MEASURED 16 SEPTEMBER 2021 AND THE CONDUCTIVITY VALUES OBTAINED FROM PUBLISHED SOURCES AND GROUNDWATER ELEVATION DATA MEASURED BETWEEN MARCH 2018 AND JANUARY 2019.
4. AERIAL IMAGERY SOURCE: NEARMAP, 28 MARCH 2021



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

ASH PONDS (INACTIVE)
GROUNDWATER POTENTIOMETRIC
ELEVATION CONTOUR MAP
SEPTEMBER 16, 2021



JULY 2022

FIGURE 3

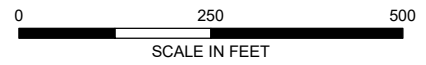


LEGEND

- MW-37** WELL NAME AND GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL (AMSL), DECEMBER 2021
- 822.24**
- MONITORING WELL
- ESTIMATED GROUNDWATER POTENTIOMETRIC OBSERVATION ELEVATION CONTOUR, 1-FT INTERVAL
- GROUNDWATER FLOW DIRECTION AND APPROXIMATE GROUNDWATER FLOW RATE (FEET/YEAR)
- ASH PONDS (INACTIVE)

NOTES

1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.
2. GROUNDWATER POTENTIOMETRIC ELEVATIONS WERE MEASURED 06 DECEMBER 2021.
3. THE GROUNDWATER FLOW RATE WAS APPROXIMATED USING THE HYDRAULIC GRADIENT CALCULATED FROM GROUNDWATER POTENTIOMETRIC ELEVATIONS MEASURED 06 DECEMBER 2021 AND THE CONDUCTIVITY VALUES OBTAINED FROM PUBLISHED SOURCES AND GROUNDWATER ELEVATION DATA MEASURED BETWEEN MARCH 2018 AND JANUARY 2019.
4. AERIAL IMAGERY SOURCE: NEARMAP, 28 MARCH 2021



HALEY ALDRICH

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

ASH PONDS (INACTIVE)
GROUNDWATER POTENTIOMETRIC
ELEVATION CONTOUR MAP
DECEMBER 06, 2021

evergy

JULY 2022

FIGURE 4

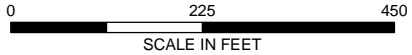


LEGEND

- MW-37** WELL NAME AND GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL (AMSL), MARCH 2022
- 819.58**
- MONITORING WELL
- ESTIMATED GROUNDWATER POTENTIOMETRIC OBSERVATION ELEVATION CONTOUR, 1-FT INTERVAL
- ESTIMATED GROUNDWATER FLOW DIRECTION AND APPROXIMATE GROUNDWATER FLOW RATE (FEET/YEAR)
- ASH PONDS (INACTIVE)

NOTES:

1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.
2. GROUNDWATER POTENTIOMETRIC ELEVATIONS MEASURED 15 MARCH 2022.
3. THE GROUNDWATER FLOW RATE WAS APPROXIMATED USING THE HYDRAULIC GRADIENT CALCULATED FROM GROUNDWATER POTENTIOMETRIC ELEVATIONS MEASURED 15 MARCH 2022 AND THE CONDUCTIVITY VALUES AND EFFECTIVE POROSITY VALUES OBTAINED FROM PUBLISHED SOURCES AND GROUNDWATER ELEVATION DATA MEASURED BETWEEN MARCH 2018 AND JANUARY 2019.
4. AERIAL IMAGERY SOURCE: EVERGY, UNMANNED AERIAL SERVIS (UAS), 29 MARCH 2022
5. BASE MAP SOURCE: NEARMAP, 28 MARCH 2021



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

**ASH PONDS (INACTIVE)
GROUNDWATER POTENTIOMETRIC
ELEVATION CONTOUR MAP
MARCH 15, 2022**



JULY 2022

FIGURE 5

ATTACHMENT 1
Statistical Analyses

Attachment 1-1

March 2021 Semi-Annual Groundwater Assessment
Monitoring Data Statistical Evaluation



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

TECHNICAL MEMORANDUM

July 31, 2022
File No. 129778-037

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., Senior Associate – Senior Hydrogeologist

SUBJECT: March 2021 Semi-Annual Groundwater Assessment Monitoring Data
Statistical Evaluation
Completed July 15, 2021
Lawrence Energy Center
Area 2 Pond, Area 3 Pond, and Area 4 Pond (inactive)

Pursuant to Code of Federal Regulations Title 40 (40 CFR) §§ 257.93 and 257.95 (Rule), this memorandum summarizes the statistical evaluation of the analytical results for the **March 2021** semi-annual assessment monitoring groundwater sampling event for the Lawrence Energy Center (LEC) Area 2 Pond (inactive), Area 3 Pond (inactive), and Area 4 Pond (inactive; collectively, inactive Ash Ponds). This semi-annual assessment monitoring groundwater sampling event was completed on **March 9, 2021**, with laboratory results received and validated on **April 16, 2021**.

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. GWPSs 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 July 14, 2020. 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 (UTLs), 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 SSL existed.

STATISTICAL EVALUATION

Either an interwell or intrawell 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, and the intrawell evaluation compares the most recent values from each compliance well against a background dataset composed of its own historical data. Because the CCR unit has transitioned into assessment monitoring, no statistical evaluations were conducted on Appendix III (detection monitoring) semi-annual assessment monitoring data.

The parametric TL methods were 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 a 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 2021** sampling event was above the GWPS, the lower confidence limit (LCL) for the downgradient well constituent will be used to evaluate if a 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-37 (for interwell evaluation) 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. Per the document, *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 **December 2020** (interwell evaluation), except for cobalt, which was updated through **March 2019**. Background concentrations were updated through **December 2020** for intrawell evaluation.

RESULTS OF APPENDIX IV DOWNGRADIENT STATISTICAL COMPARISONS

The sample concentrations from the downgradient wells for each of the detected Appendix IV constituents from the **March 2021** semi-annual 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. Based on previous compliance sampling events, statistical evaluations, and associated alternative source demonstrations, an intrawell comparison is utilized for MW-38 for fluoride statistical evaluations. Interwell comparisons are being utilized for all other well and constituent evaluations. The results of the groundwater assessment monitoring statistical evaluation are provided in Table I. **Based on this statistical evaluation on groundwater sampling data collected in March 2021, the SSLs above GWPS for the LEC inactive Ash Ponds are listed in Table II.** All detected SSLs are consistent with previously identified SSLs at the LEC inactive Ash Ponds, with the addition of lithium at MW-39.

Enclosures:

Table I – Summary of Semi-Annual Assessment Groundwater Monitoring Statistical Evaluation

Table II – Statistically Significant Levels of Appendix IV Constituents

TABLES

TABLE I
SUMMARY OF SEMI-ANNUAL ASSESSMENT GROUNDWATER MONITORING STATISTICAL EVALUATION
MARCH 2021 SAMPLING EVENT
LAWRENCE ENERGY CENTER
ASH PONDS (INACTIVE)

Location Id	Frequency of Detection	Percent Non-Detects	Maximum Detect	Variance	Standard Deviation	Coefficient of Variance	CCR MCL or CFR § 257.95(h)(2)*	Report Result Unit	Detection Exceedances (Y/N)	MCL Comparison		Outlier Presence	Outlier Removed	Trend	Distribution Well	March 2021 Concentration (mg/L)	Detect?	Inter-well Analysis		Intra-well Analysis		Groundwater Protection Standard		
										Number of Detection Exceedances	Number of Non-Detection Exceedances							Upper Tolerance Limit (UTL) (mg/L) ¹	SSI (exceedance above Background at Individual Well)	Background Limit (Upper Prediction Limit) ²	SSI (exceedance above Background at Individual Well)	GWPS (Higher of MCL/40 CFR § 257.95(h)(2) or UTL) mg/L	Exceedance above GWPS at Individual Well	SSL
CCR Appendix-IV: Arsenic, Total (mg/L)																								
MW-37	13/13	0%	0.0089	0.00002431	0.001559	0.2454	0.010	mg/L	N	0	0	No	No	Stable	Normal	0.0057	Y	0.00943				0.010		
MW-38	13/13	0%	0.029	0.00001808	0.004252	0.2670	0.010	mg/L	Y	13	0	Yes	No	Increasing	Non-parametric	0.017	Y		Y				Y	Yes
MW-39	13/13	0%	0.014	0.00001692	0.001301	0.1064	0.010	mg/L	Y	12	0	No	No	Stable	Normal	0.011	Y		Y				Y	Yes
MW-40	13/13	0%	0.027	0.00001297	0.003602	0.2377	0.010	mg/L	Y	13	0	Yes	No	Stable	Non-parametric	0.015	Y		Y				Y	Yes
MW-K	13/13	0%	0.076	0.00001281	0.003579	0.0503	0.010	mg/L	Y	13	0	No	No	Stable	Normal	0.066	Y		Y				Y	Yes
MW-L	13/13	0%	0.029	0.0000641	0.002532	0.1052	0.010	mg/L	Y	13	0	No	No	Increasing	Normal	0.026	Y		Y				Y	Yes
CCR Appendix-IV: Barium, Total (mg/L)																								
MW-37	13/13	0%	0.079	0.0001077	0.01038	0.1799	2	mg/L	N	0	0	No	No	Increasing	Normal	0.068	Y	0.0762				2		
MW-38	13/13	0%	0.040	0.00007974	0.002824	0.0827	2	mg/L	N	0	0	No	No	Stable	Normal	0.034	Y		N				N	No
MW-39	13/13	0%	0.034	0.00002308	0.001519	0.0477	2	mg/L	N	0	0	No	No	Stable	Normal	0.030	Y		N				N	No
MW-40	13/13	0%	0.039	0.00004936	0.002222	0.0645	2	mg/L	N	0	0	No	No	Stable	Normal	0.032	Y		N				N	No
MW-K	13/13	0%	0.052	0.00001347	0.003671	0.0871	2	mg/L	N	0	0	No	No	Stable	Normal	0.039	Y		N				N	No
MW-L	13/13	0%	0.094	0.0002635	0.01623	0.3471	2	mg/L	N	0	0	No	No	Stable	Normal	0.037	Y		N				N	No
CCR Appendix-IV: Cobalt, Total (mg/L)																								
MW-37	0/11	100%	-	0	0	0	0.006	mg/L	N	0	0	NA	NA	NA	NA	<0.0010	N	0.001 ³				0.006		
MW-38	0/11	100%	-	0	0	0	0.006	mg/L	N	0	0	NA	NA	NA	NA	<0.0010	N		N				N	No
MW-39	8/11	27%	0.0016	0.00000004	0.0002	0.1667	0.006	mg/L	N	0	0	No	No	Stable	Normal	0.0011	Y		Y				N	No
MW-40	0/11	100%	-	0	0	0	0.006	mg/L	N	0	0	NA	NA	NA	NA	<0.0010	N		N				N	No
MW-K	6/11	45%	0.0028	2.887E-07	0.0005373	0.3967	0.006	mg/L	N	0	0	No	No	NA	Normal	<0.0010	N		N				N	No
MW-L	0/11	100%	-	0	0	0	0.006	mg/L	N	0	0	NA	NA	NA	NA	<0.0010	N		N				N	No
CCR Appendix-IV: Fluoride (mg/L)																								
MW-37	12/14	14%	0.44	0.00527	0.07261	0.2229	4.0	mg/L	N	0	0	No	No	Stable	Normal	0.35	Y	0.463				4.0		
MW-38	14/14	0%	5.5	0.936	0.9675	0.2116	4.0	mg/L	Y	12	0	Yes	No	Decreasing	Non-parametric	4.6	Y			5.500	N	5.5	N	No
MW-39	13/14	7%	3.5	0.7837	0.8853	0.3645	4.0	mg/L	N	0	0	Yes	No	Stable	Normal	1.7	Y		Y				N	No
MW-40	12/14	14%	2.1	0.3455	0.5878	0.4094	4.0	mg/L	N	0	0	Yes	No	Decreasing	Normal	1.3	Y		Y				N	No
MW-K	14/14	0%	3.7	0.5538	0.7442	0.2501	4.0	mg/L	N	0	0	Yes	No	Stable	Non-parametric	3.3	Y		Y				N	No
MW-L	13/14	7%	2.4	0.3273	0.5721	0.3092	4.0	mg/L	N	0	0	Yes	No	Stable	Non-parametric	2.1	Y		Y				N	No
CCR Appendix-IV: Lithium, Total (mg/L)																								
MW-37	13/13	0%	0.022	0.00001186	0.003444	0.2122	0.040	mg/L	N	0	0	No	No	Increasing	Normal	0.022	Y	0.0216				0.040		
MW-38	13/13	0%	0.084	0.00001965	0.004433	0.0587	0.040	mg/L	Y	14	0	No	No	Stable	Normal	0.075	Y		Y				Y	Yes
MW-39	13/13	0%	0.062	0.00005431	0.007369	0.1675	0.040	mg/L	Y	9	0	Yes	No	Stable	Normal	0.042	Y		Y				Y	Yes
MW-40	13/13	0%	0.056	0.0000235	0.004848	0.1031	0.040	mg/L	Y	12	0	No	No	Decreasing	Normal	0.047	Y		Y				Y	Yes
MW-K	13/13	0%	0.089	0.0001078	0.010380	0.1403	0.040	mg/L	Y	13	0	No	No	Increasing	Normal	0.084	Y		Y				Y	Yes
MW-L	13/13	0%	0.065	0.00006308	0.007942	0.1530	0.040	mg/L	Y	12	0	No	No	Increasing	Normal	0.065	Y		Y				Y	Yes
CCR Appendix-IV: Molybdenum, Total (mg/L)																								
MW-37	13/13	0%	0.14	0.00018240	0.01350	0.1065	0.100	mg/L	Y	12	0	No	No	Stable	Normal	0.098	Y	0.149				0.149		
MW-38	13/13	0%	0.10	0.00009158	0.00957	0.1099	0.100	mg/L	Y	1	0	No	No	Decreasing	Normal	0.066	Y		N				N	No
MW-39	14/14	0%	0.23	0.00252300	0.05023	0.3298	0.100	mg/L	Y	12	0	No	No	Increasing	Normal	0.19	Y		Y				Y	Yes
MW-40	13/13	0%	0.19	0.00177300	0.04210	0.3436	0.100	mg/L	Y	8	0	Yes	No	Decreasing	Normal	0.070	Y		N				N	No
MW-K	13/13	0%	0.04	0.00006755	0.00822	0.3754	0.100	mg/L	N	0	0	No	No	Decreasing	Normal	0.021	Y		N				N	No
MW-L	13/13	0%	0.055	0.00003656	0.00605	0.1335	0.100	mg/L	N	0	0	No	No	Increasing	Normal	0.039	Y		N				N	No
CCR Appendix-IV: Radium-226 & 228 (pCi/L)																								
MW-37	12/13	8%	2.56	0.3953	0.6287	0.6915	5	pCi/L	N	0	0	Yes	No	Decreasing	Normal	0.728	Y	2.147				5		
MW-38	11/13	15%	1.88	0.3673	0.6060	0.5832	5	pCi/L	N	0	0	No	No	Stable	Normal	0.959	Y		N				N	No
MW-39	11/13	15%	1.62	0.1333	0.3651	0.3811	5	pCi/L	N	0	0	No	No	Stable	Normal	0.480	Y		N				N	No
MW-40	12/13	8%	1.61	0.1717	0.4144	0.5177	5	pCi/L	N	0	0	No	No	Stable	Normal	0.526	Y		N				N	No
MW-K	13/13	0%	2.73	0.4210	0.6489	0.5359	5	pCi/L	N	0	0	No	No	NA	Normal	1.43	Y		N				N	No
MW-L	12/13	8%	2.08	0.2933	0.5415	0.5458	5	pCi/L	N	0	0	No	No	NA	Normal	0.917	Y		N				N	No

Notes and Abbreviations:

¹ Interwell background data collected from 03/07/2018 through 12/01/2020, unless otherwise noted.

² Intrawell background data collected from 03/07/2018 through 12/01/2020.

³ Interwell background data collected from 03/07/2018 through 3/18/2019.

* 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

pCi/L = picoCuries per Liter

RSL = regional screening level

SSI = statistically significant increase

SSL = statistically significant level

TABLE II
 STATISTICALLY SIGNIFICANT LEVELS OF APPENDIX IV CONSTITUENTS
 MARCH 2021 SAMPLING EVENT
 LAWRENCE ENERGY CENTER
 INACTIVE ASH PONDS

Constituent	Well ID	Groundwater Protection Standard (mg/L)
Arsenic	MW-38	0.010
	MW-39	
	MW-40	
	MW-K	
	MW-L	
Lithium	MW-38	0.040
	MW-39	
	MW-40	
	MW-K	
	MW-L	
Molybdenum	MW-39	0.149

Notes and Abbreviations:

mg/L = milligrams per liter

Attachment 1-2

September 2021 Semi-Annual Groundwater Assessment
Monitoring Data Statistical Evaluation



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

TECHNICAL MEMORANDUM

July 31, 2022
File No. 129778-037

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., Senior Associate – Senior Hydrogeologist

SUBJECT: September 2021 Semi-Annual Groundwater Assessment Monitoring Data
Statistical Evaluation
Completed January 18, 2022
Lawrence Energy Center
Area 2 Pond, Area 3 Pond, and Area 4 Pond (inactive)

Pursuant to Code of Federal Regulations Title 40 (40 CFR) §§ 257.93 and 257.95 (Rule), this memorandum summarizes the statistical evaluation of the analytical results for the **September 2021** semi-annual assessment monitoring groundwater sampling event for the Lawrence Energy Center (LEC) Area 2 Pond (inactive), Area 3 Pond (inactive), and Area 4 Pond (inactive; collectively, inactive Ash Ponds). This semi-annual assessment monitoring groundwater sampling event was completed on **September 16, 2021**, with laboratory results received and validated on **December 9, 2021**.

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. GWPSs 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 July 14, 2020. 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 (UTLs), 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 SSL existed.

STATISTICAL EVALUATION

Either an interwell or intrawell 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, and the intrawell evaluation compares the most recent values from each compliance well against a background dataset composed of its own historical data. Because the CCR unit has transitioned into assessment monitoring, no statistical evaluations were conducted on Appendix III (detection monitoring) semi-annual 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 a 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 2021** 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-37 (for interwell evaluation) 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. Per the document, *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 **December 2020** (interwell evaluation), except for cobalt, which was updated through **September 2021**. Background concentrations were updated through **December 2020** for intrawell evaluation.

RESULTS OF APPENDIX IV DOWNGRADIENT STATISTICAL COMPARISONS

The sample concentrations from the downgradient wells for each of the detected Appendix IV constituents from the **September 2021** semi-annual 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. Based on previous compliance sampling events, statistical evaluations, and associated alternative source demonstrations, an intrawell comparison is utilized for MW-38 for fluoride statistical evaluations. Interwell comparisons are being utilized for all other well and constituent evaluations. The results of the groundwater assessment monitoring statistical evaluation are provided in Table I. **Based on this statistical evaluation on groundwater sampling data collected in September 2021, the SSLs above GWPS for the LEC inactive Ash Ponds are listed in Table II.** All detected SSLs are consistent with previously identified SSLs at the LEC inactive Ash Ponds.

Enclosures:

Table I – Summary of Semi-Annual Assessment Groundwater Monitoring Statistical Evaluation

Table II – Statistically Significant Levels of Appendix IV Constituents

TABLES

TABLE I
SUMMARY OF SEMI-ANNUAL ASSESSMENT GROUNDWATER MONITORING STATISTICAL EVALUATION
 SEPTEMBER 2021 SAMPLING EVENT
 LAWRENCE ENERGY CENTER
 ASH PONDS (INACTIVE)

Location Id	Frequency of Detection	Percent Non-Detects	Maximum Detect	Variance	Standard Deviation	Coefficient of Variance	CCR MCL or CFR § 257.95(h)(2)*	Report Result Unit	Detection Exceedances (Y/N)	MCL Comparison		Outlier Presence	Outlier Removed	Trend	Distribution Well	September 2021 Concentration (mg/L)	Detect?	Inter-well Analysis		Intra-well Analysis		Groundwater Protection Standard		
										Number of Detection Exceedances	Number of Non-Detection Exceedances							Upper Tolerance Limit (UTL) (mg/L) ¹	SSI (exceedance above Background at Individual Well)	Background Limit (Upper Prediction Limit) ²	SSI (exceedance above Background at Individual Well)	GWPS (Higher of MCL/40 CFR § 257.95(h)(2) or UTL) mg/L	Exceedance above GWPS at Individual Well	SSL
CCR Appendix-IV: Arsenic, Total (mg/L)																								
MW-37	14/14	0%	0.0089	0.000002431	0.001559	0.2454	0.010	mg/L	N	0	0	No	No	Stable	Normal	0.0054	Y	0.00943				0.010		
MW-38	14/14	0%	0.029	0.00001808	0.004252	0.2670	0.010	mg/L	Y	14	0	Yes	No	Increasing	Non-parametric	0.037	Y		Y				Y	Yes
MW-39	14/14	0%	0.014	0.000001692	0.001301	0.1064	0.010	mg/L	Y	12	0	No	No	Stable	Normal	0.011	Y		Y				Y	Yes
MW-40	14/14	0%	0.027	0.00001297	0.003602	0.2377	0.010	mg/L	Y	13	0	Yes	No	Stable	Non-parametric	0.015	Y		Y				Y	Yes
MW-K	14/14	0%	0.076	0.00001281	0.003579	0.0503	0.010	mg/L	Y	13	0	No	No	Stable	Normal	0.065	Y		Y				Y	Yes
MW-L	14/14	0%	0.029	0.00000641	0.002532	0.1052	0.010	mg/L	Y	13	0	No	No	Increasing	Normal	0.026	Y		Y				Y	Yes
CCR Appendix-IV: Barium, Total (mg/L)																								
MW-37	14/14	0%	0.079	0.0001077	0.010380	0.1799	2	mg/L	N	0	0	No	No	Increasing	Normal	0.066	Y	0.0762				2		
MW-38	14/14	0%	0.040	0.000007974	0.002824	0.0827	2	mg/L	N	0	0	No	No	Stable	Normal	0.046	Y		N				N	No
MW-39	14/14	0%	0.034	0.000002308	0.001519	0.0477	2	mg/L	N	0	0	No	No	Stable	Normal	0.031	Y		N				N	No
MW-40	14/14	0%	0.039	0.000004936	0.002222	0.0645	2	mg/L	N	0	0	No	No	Stable	Normal	0.032	Y		N				N	No
MW-K	14/14	0%	0.052	0.00001347	0.003671	0.0871	2	mg/L	N	0	0	No	No	Stable	Normal	0.038	Y		N				N	No
MW-L	14/14	0%	0.094	0.0002635	0.016230	0.3471	2	mg/L	N	0	0	No	No	Stable	Normal	0.081	Y		Y				N	No
CCR Appendix-IV: Cobalt, Total (mg/L)																								
MW-37	0/12	100%	-	0	0	0	0.006	mg/L	N	0	0	NA	NA	NA	NA	0.0010	N	0.001 ³				0.006		
MW-38	0/12	100%	-	0	0	0	0.006	mg/L	N	0	0	NA	NA	NA	NA	0.0010	N						N	No
MW-39	8/12	27%	0.0016	0.000000004	0.0002	0.1667	0.006	mg/L	N	0	0	No	No	Stable	Normal	0.0030	N		Y ⁴				N	No
MW-40	0/12	100%	-	0	0	0	0.006	mg/L	N	0	0	NA	NA	NA	NA	0.0020	N		Y ⁴				N	No
MW-K	6/12	45%	0.0028	2.887E-07	0.0005373	0.3967	0.006	mg/L	N	0	0	No	No	NA	Normal	0.0020	N		Y ⁴				N	No
MW-L	0/12	100%	-	0	0	0	0.006	mg/L	N	0	0	NA	NA	NA	NA	0.0030	N		Y ⁴				N	No
CCR Appendix-IV: Fluoride (mg/L)																								
MW-37	13/15	14%	0.44	0.005273	0.07261	0.2229	4.0	mg/L	N	0	0	No	No	Decreasing	Normal	0.30	Y	0.463				4.0		
MW-38	15/15	0%	5.5	0.936	0.9675	0.2116	4.0	mg/L	Y	12	0	Yes	No	Decreasing	Non-parametric	3.5	Y			5.500	N	5.5	N	No
MW-39	14/15	7%	3.5	0.7837	0.8853	0.3645	4.0	mg/L	N	0	0	Yes	No	Stable	Normal	1.6	Y		Y				N	No
MW-40	13/15	14%	2.1	0.3455	0.5878	0.4094	4.0	mg/L	N	0	0	Yes	No	Decreasing	Normal	1.2	Y		Y				N	No
MW-K	15/15	0%	3.7	0.5538	0.7442	0.2501	4.0	mg/L	N	0	0	Yes	No	Stable	Non-parametric	3.6	Y		Y				N	No
MW-L	14/15	7%	2.4	0.3273	0.5721	0.3092	4.0	mg/L	N	0	0	Yes	No	Stable	Non-parametric	3.0	Y		Y				N	No
CCR Appendix-IV: Lithium, Total (mg/L)																								
MW-37	14/14	0%	0.022	0.00001186	0.003444	0.2122	0.040	mg/L	N	0	0	No	No	Increasing	Normal	0.016	Y	0.0216				0.040		
MW-38	14/14	0%	0.084	0.00001965	0.004433	0.0587	0.040	mg/L	Y	14	0	No	No	Stable	Normal	0.053	Y		Y				Y	Yes
MW-39	14/14	0%	0.062	0.00005431	0.007369	0.1675	0.040	mg/L	Y	9	0	Yes	No	Stable	Normal	0.031	Y		Y				N	No
MW-40	14/14	0%	0.056	0.00002350	0.004848	0.1031	0.040	mg/L	Y	12	0	No	No	Decreasing	Normal	0.036	Y		Y				N	No
MW-K	14/14	0%	0.089	0.00010780	0.010380	0.1403	0.040	mg/L	Y	13	0	No	No	Increasing	Normal	0.057	Y		Y				Y	Yes
MW-L	14/14	0%	0.065	0.00006308	0.007942	0.1530	0.040	mg/L	Y	12	0	No	No	Increasing	Normal	0.080	Y		Y				Y	Yes
CCR Appendix-IV: Molybdenum, Total (mg/L)																								
MW-37	14/14	0%	0.14	0.00018240	0.01350	0.1065	0.100	mg/L	Y	12	0	No	No	Stable	Normal	0.10	Y	0.149				0.149		
MW-38	14/14	0%	0.10	0.00009158	0.00957	0.1099	0.100	mg/L	Y	1	0	No	No	Decreasing	Normal	0.057	Y		N				N	No
MW-39	15/15	0%	0.23	0.00252300	0.05023	0.3298	0.100	mg/L	Y	12	0	No	No	Increasing	Normal	0.200	Y		Y				Y	Yes
MW-40	14/14	0%	0.19	0.00177300	0.04210	0.3436	0.100	mg/L	Y	8	0	Yes	No	Decreasing	Normal	0.069	Y		N				N	No
MW-K	14/14	0%	0.04	0.00006755	0.00822	0.3754	0.100	mg/L	N	0	0	No	No	Decreasing	Normal	0.032	Y		N				N	No
MW-L	14/14	0%	0.055	0.00003656	0.00605	0.1335	0.100	mg/L	N	0	0	No	No	Increasing	Normal	0.040	Y		N				N	No
CCR Appendix-IV: Radium-226 & 228 (pCi/L)																								
MW-37	14/14	8%	2.56	0.3953	0.6287	0.6915	5	pCi/L	N	0	0	Yes	No	Stable	Normal	0.0836	Y	2.147				5		
MW-38	14/14	15%	1.88	0.3673	0.606	0.5832	5	pCi/L	N	0	0	No	No	Stable	Normal	0.703	Y		N				N	No
MW-39	14/14	15%	1.62	0.1333	0.3651	0.3811	5	pCi/L	N	0	0	No	No	Stable	Normal	0.926	Y		N				N	No
MW-40	14/14	8%	1.61	0.1717	0.4144	0.5177	5	pCi/L	N	0	0	No	No	Stable	Normal	1.370	Y		N				N	No
MW-K	14/14	0%	2.73	0.4210	0.6489	0.5359	5	pCi/L	N	0	0	No	No	NA	Normal	0.910	Y		N				N	No
MW-L	14/14	8%	2.08	0.2933	0.5415	0.5458	5	pCi/L	N	0	0	No	No	NA	Normal	0.834	Y		N				N	No

Notes and Abbreviations:

¹ Interwell background data collected from 03/07/2018 through 12/01/2020, unless otherwise noted.

² Intrawell background data collected from 03/07/2018 through 12/01/2020.

³ Interwell background data collected from 03/07/2018 through 9/16/2021.

⁴ Due to analytical dilution factors, laboratory reporting limits were above the upper tolerance limit for cobalt.

* 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

pCi/L = picoCuries per liter

RSL = regional screening level

SSI = statistically significant increase

SSL = statistically significant level

TABLE II
STATISTICALLY SIGNIFICANT LEVELS OF APPENDIX IV CONSTITUENTS
 SEPTEMBER 2021 SAMPLING EVENT
 LAWRENCE ENERGY CENTER
 INACTIVE ASH PONDS

Constituent	Well ID	Groundwater Protection Standard (mg/L)
Arsenic	MW-38	0.010
	MW-39	
	MW-40	
	MW-K	
	MW-L	
Lithium	MW-38	0.040
	MW-K	
	MW-L	
Molybdenum	MW-39	0.149

Notes and Abbreviations:
 mg/L = milligrams per liter

ATTACHMENT 2
Laboratory Analytical Reports

Attachment 2-1

September 2021 Semi-Annual Sampling Event
Laboratory Analytical Reports

November 17, 2021

Melissa Michels
Evergy, Inc.
818 Kansas Avenue
Topeka, KS 66612

RE: Project: LEC PERIMETER ASH POND WELL CC
Pace Project No.: 60380536

Dear Melissa Michels:

Enclosed are the analytical results for sample(s) received by the laboratory on September 17, 2021. 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

REV-1, 11/17/21: Metals lists updated to match COC.

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

Sincerely,



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

Enclosures

cc: Andrew Hare, Evergy, Inc.
Laura Hines, Evergy, Inc.
Jake Humphrey, Evergy, Inc.
Tabitha Hylton, Evergy Kansas Central, Inc. Lawrence
Energy Center
Samantha Kaney, Haley & Aldrich
Jared Morrison, Evergy, Inc.
Danielle Oberbroeckling, Haley & Aldrich
Melanie Sataneck, Haley & Aldrich, Inc.



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: LEC PERIMETER ASH POND WELL CC

Pace Project No.: 60380536

Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601

ANAB DOD-ELAP Rad Accreditation #: L2417

Alabama Certification #: 41590

Arizona Certification #: AZ0734

Arkansas Certification

California Certification #: 04222CA

Colorado Certification #: PA01547

Connecticut Certification #: PH-0694

Delaware Certification

EPA Region 4 DW Rad

Florida/TNI Certification #: E87683

Georgia Certification #: C040

Florida: Cert E871149 SEKS WET

Guam Certification

Hawaii Certification

Idaho Certification

Illinois Certification

Indiana Certification

Iowa Certification #: 391

Kansas/TNI Certification #: E-10358

Kentucky Certification #: KY90133

KY WW Permit #: KY0098221

KY WW Permit #: KY0000221

Louisiana DHH/TNI Certification #: LA180012

Louisiana DEQ/TNI Certification #: 4086

Maine Certification #: 2017020

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 #: PA014572018-1

New Hampshire/TNI Certification #: 297617

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 #: PA200002-010

Pennsylvania/TNI Certification #: 65-00282

Puerto Rico Certification #: PA01457

Rhode Island Certification #: 65-00282

South Dakota Certification

Tennessee Certification #: 02867

Texas/TNI Certification #: T104704188-17-3

Utah/TNI Certification #: PA014572017-9

USDA Soil Permit #: P330-17-00091

Vermont Dept. of Health: ID# VT-0282

Virgin Island/PADEP Certification

Virginia/VELAP Certification #: 9526

Washington Certification #: C868

West Virginia DEP Certification #: 143

West Virginia DHHR Certification #: 9964C

Wisconsin Approve List for Rad

Wyoming Certification #: 8TMS-L

Pace Analytical Services Kansas

9608 Loiret Boulevard, Lenexa, KS 66219

Missouri Inorganic Drinking Water Certification #: 10090

Arkansas Drinking Water

Arkansas Certification #: 20-020-0

Arkansas Drinking Water

Illinois Certification #: 2000302021-3

Iowa Certification #: 118

Kansas/NELAP Certification #: E-10116

Louisiana Certification #: 03055

Nevada Certification #: KS000212020-2

Oklahoma Certification #: 9205/9935

Florida: Cert E871149 SEKS WET

Texas Certification #: T104704407-19-12

Utah Certification #: KS000212019-9

Illinois Certification #: 004592

Kansas Field Laboratory Accreditation: # E-92587

Missouri SEKS Micro Certification: 10070

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: LEC PERIMETER ASH POND WELL CC

Pace Project No.: 60380536

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60380536001	MW-C-091521	Water	09/15/21 11:20	09/17/21 14:10
60380536002	MW-D-091521	Water	09/15/21 13:15	09/17/21 14:10
60380536003	MW-G-091521	Water	09/15/21 14:55	09/17/21 14:10
60380536004	MW-M-091521	Water	09/15/21 10:05	09/17/21 14:10
60380536005	MW-O-091521	Water	09/15/21 16:35	09/17/21 14:10
60380536006	MW-P-091521	Water	09/15/21 14:10	09/17/21 14:10
60380536007	MW-103-091521	Water	09/15/21 11:40	09/17/21 14:10
60380536008	MW-N-091621	Water	09/16/21 14:25	09/17/21 13:10

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: LEC PERIMETER ASH POND WELL CC

Pace Project No.: 60380536

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60380536001	MW-C-091521	EPA 200.7	JLH	9	PASI-K
		EPA 200.7	JLH	5	PASI-K
		EPA 6010	JLH	1	PASI-K
		EPA 200.8	JGP	3	PASI-K
		EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
		SM 2320B	KB	2	PASI-K
		SM 2540C	BLA	1	PASI-K
		SM 3500-Fe B#4	AG1	1	PASI-K
		SM 4500-H+B	KB	1	PASI-K
		EPA 300.0	ALH, LDB	3	PASI-K
		SM 5310C	HM1	1	PASI-K
		EPA 9060	HM1	5	PASI-K
		60380536002	MW-D-091521	EPA 200.7	JLH
EPA 200.7	JLH			5	PASI-K
EPA 6010	JLH			1	PASI-K
EPA 200.8	JGP			3	PASI-K
EPA 903.1	MK1			1	PASI-PA
EPA 904.0	VAL			1	PASI-PA
Total Radium Calculation	RMK			1	PASI-PA
SM 2320B	KB			2	PASI-K
SM 2540C	BLA			1	PASI-K
SM 3500-Fe B#4	AG1			1	PASI-K
SM 4500-H+B	KB			1	PASI-K
EPA 300.0	ALH			3	PASI-K
SM 5310C	HM1			1	PASI-K
EPA 9060	HM1			5	PASI-K
60380536003	MW-G-091521			EPA 200.7	JLH
		EPA 200.7	JLH	5	PASI-K
		EPA 6010	JLH	1	PASI-K
		EPA 200.8	JGP	3	PASI-K
		EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
		SM 2320B	KB	2	PASI-K
		SM 2540C	BLA	1	PASI-K

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: LEC PERIMETER ASH POND WELL CC

Pace Project No.: 60380536

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60380536004	MW-M-091521	SM 3500-Fe B#4	AG1	1	PASI-K
		SM 4500-H+B	KB	1	PASI-K
		EPA 300.0	ALH, LDB	3	PASI-K
		SM 5310C	HM1	1	PASI-K
		EPA 9060	HM1	5	PASI-K
		EPA 200.7	JLH	9	PASI-K
		EPA 200.7	JLH	5	PASI-K
		EPA 6010	JLH	1	PASI-K
		EPA 200.8	JGP	3	PASI-K
		EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
		SM 2320B	KB	2	PASI-K
		SM 2540C	BLA	1	PASI-K
		60380536005	MW-O-091521	SM 3500-Fe B#4	AG1
SM 4500-H+B	KB			1	PASI-K
EPA 300.0	ALH			3	PASI-K
SM 5310C	HM1			1	PASI-K
EPA 9060	HM1			5	PASI-K
EPA 200.7	JLH			9	PASI-K
EPA 200.7	JLH			5	PASI-K
EPA 6010	JLH			1	PASI-K
EPA 200.8	JGP			3	PASI-K
EPA 903.1	MK1			1	PASI-PA
EPA 904.0	VAL			1	PASI-PA
Total Radium Calculation	RMK			1	PASI-PA
SM 2320B	KB			2	PASI-K
SM 2540C	BLA			1	PASI-K
60380536006	MW-P-091521			SM 3500-Fe B#4	AG1
		SM 4500-H+B	KB	1	PASI-K
		EPA 300.0	ALH, LDB	3	PASI-K
		SM 5310C	HM1	1	PASI-K
		EPA 9060	HM1	5	PASI-K
		EPA 200.7	JLH	9	PASI-K
		EPA 200.7	JLH	5	PASI-K
		EPA 6010	JLH	1	PASI-K
		EPA 200.8	JGP	3	PASI-K

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SAMPLE ANALYTE COUNT

Project: LEC PERIMETER ASH POND WELL CC

Pace Project No.: 60380536

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60380536007	MW-103-091521	EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
		SM 2320B	KB	2	PASI-K
		SM 2540C	BLA	1	PASI-K
		SM 3500-Fe B#4	AG1	1	PASI-K
		SM 4500-H+B	KB	1	PASI-K
		EPA 300.0	ALH	3	PASI-K
		SM 5310C	HM1	1	PASI-K
		EPA 9060	HM1	5	PASI-K
		EPA 200.7	JLH	9	PASI-K
		EPA 200.7	JLH	5	PASI-K
		EPA 6010	JLH	1	PASI-K
		EPA 200.8	JGP	3	PASI-K
		EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
		SM 2320B	KB	2	PASI-K
		SM 2540C	BLA	1	PASI-K
		SM 3500-Fe B#4	AG1	1	PASI-K
SM 4500-H+B	KB	1	PASI-K		
EPA 300.0	ALH, LDB	3	PASI-K		
SM 5310C	HM1	1	PASI-K		
EPA 9060	HM1	5	PASI-K		
60380536008	MW-N-091621	EPA 200.7	JLH	9	PASI-K
		EPA 200.7	JLH	5	PASI-K
		EPA 6010	JLH	1	PASI-K
		EPA 200.8	JGP	3	PASI-K
		EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
		SM 2320B	KB	2	PASI-K
		SM 2540C	BLA	1	PASI-K
		SM 3500-Fe B#4	AG1	1	PASI-K
		SM 4500-H+B	KB	1	PASI-K
		EPA 300.0	ALH, JDS	3	PASI-K
		SM 5310C	LDB	1	PASI-K

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SAMPLE ANALYTE COUNT

Project: LEC PERIMETER ASH POND WELL CC
Pace Project No.: 60380536

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 9060	HM1	5	PASI-K

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

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PROJECT NARRATIVE

Project: LEC PERIMETER ASH POND WELL CC

Pace Project No.: 60380536

Method: EPA 200.7

Description: 200.7 Metals, Total

Client: Evergy Kansas Central, Inc.

Date: November 17, 2021

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: 745486

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60380536001,60380625003

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

- MS (Lab ID: 2986093)
- Calcium

QC Batch: 745494

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60380676002,60380682006

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

- MS (Lab ID: 2986121)
 - Calcium
 - Magnesium
 - Sodium
- MSD (Lab ID: 2986120)
 - Boron
 - Calcium
 - Magnesium
 - Sodium

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PROJECT NARRATIVE

Project: LEC PERIMETER ASH POND WELL CC

Pace Project No.: 60380536

Method: EPA 200.7

Description: 200.7 Metals, Total

Client: Evergy Kansas Central, Inc.

Date: November 17, 2021

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC PERIMETER ASH POND WELL CC

Pace Project No.: 60380536

Method: EPA 200.7

Description: 200.7 Metals, Dissolved

Client: Evergy Kansas Central, Inc.

Date: November 17, 2021

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: 745520

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60380536001,60380763002

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

- MS (Lab ID: 2986188)
- Manganese, Dissolved

Additional Comments:

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PROJECT NARRATIVE

Project: LEC PERIMETER ASH POND WELL CC

Pace Project No.: 60380536

Method: EPA 6010

Description: 6010 MET ICP

Client: Evergy Kansas Central, Inc.

Date: November 17, 2021

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: LEC PERIMETER ASH POND WELL CC

Pace Project No.: 60380536

Method: EPA 200.8

Description: 200.8 MET ICPMS

Client: Evergy Kansas Central, Inc.

Date: November 17, 2021

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: 745483

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

- MW-103-091521 (Lab ID: 60380536007)
 - Cobalt, Total Recoverable
- MW-O-091521 (Lab ID: 60380536005)
 - Cobalt, Total Recoverable
- MW-P-091521 (Lab ID: 60380536006)
 - Cobalt, Total Recoverable

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PROJECT NARRATIVE

Project: LEC PERIMETER ASH POND WELL CC

Pace Project No.: 60380536

Method: EPA 903.1

Description: 903.1 Radium 226

Client: Evergy Kansas Central, Inc.

Date: November 17, 2021

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: LEC PERIMETER ASH POND WELL CC

Pace Project No.: 60380536

Method: EPA 904.0

Description: 904.0 Radium 228

Client: Evergy Kansas Central, Inc.

Date: November 17, 2021

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: LEC PERIMETER ASH POND WELL CC

Pace Project No.: 60380536

Method: Total Radium Calculation

Description: Total Radium 228+226

Client: Evergy Kansas Central, Inc.

Date: November 17, 2021

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:

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PROJECT NARRATIVE

Project: LEC PERIMETER ASH POND WELL CC

Pace Project No.: 60380536

Method: SM 2320B

Description: 2320B Alkalinity

Client: Evergy Kansas Central, Inc.

Date: November 17, 2021

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: LEC PERIMETER ASH POND WELL CC

Pace Project No.: 60380536

Method: SM 2540C

Description: 2540C Total Dissolved Solids

Client: Evergy Kansas Central, Inc.

Date: November 17, 2021

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: LEC PERIMETER ASH POND WELL CC

Pace Project No.: 60380536

Method: SM 3500-Fe B#4

Description: Iron, Ferrous

Client: Evergy Kansas Central, Inc.

Date: November 17, 2021

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-103-091521 (Lab ID: 60380536007)
- MW-C-091521 (Lab ID: 60380536001)
- MW-D-091521 (Lab ID: 60380536002)
- MW-G-091521 (Lab ID: 60380536003)
- MW-M-091521 (Lab ID: 60380536004)
- MW-N-091621 (Lab ID: 60380536008)
- MW-O-091521 (Lab ID: 60380536005)
- MW-P-091521 (Lab ID: 60380536006)

Method Blank:

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

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits 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: LEC PERIMETER ASH POND WELL CC

Pace Project No.: 60380536

Method: SM 4500-H+B

Description: 4500H+ pH, Electrometric

Client: Evergy Kansas Central, Inc.

Date: November 17, 2021

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-103-091521 (Lab ID: 60380536007)
- MW-C-091521 (Lab ID: 60380536001)
- MW-D-091521 (Lab ID: 60380536002)
- MW-G-091521 (Lab ID: 60380536003)
- MW-M-091521 (Lab ID: 60380536004)
- MW-N-091621 (Lab ID: 60380536008)
- MW-O-091521 (Lab ID: 60380536005)
- MW-P-091521 (Lab ID: 60380536006)

Method Blank:

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

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits 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: LEC PERIMETER ASH POND WELL CC

Pace Project No.: 60380536

Method: EPA 300.0

Description: 300.0 IC Anions 28 Days

Client: Evergy Kansas Central, Inc.

Date: November 17, 2021

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: 744818

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60380084003,60380536003

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

- MS (Lab ID: 2983692)
 - Chloride
 - Fluoride
- MSD (Lab ID: 2983693)
 - Chloride
 - Fluoride

QC Batch: 745151

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60380635004,60380682005

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

- MS (Lab ID: 2984847)
 - Fluoride
 - Sulfate

R1: RPD value was outside control limits.

- MSD (Lab ID: 2984848)
 - Fluoride

Additional Comments:

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PROJECT NARRATIVE

Project: LEC PERIMETER ASH POND WELL CC

Pace Project No.: 60380536

Method: SM 5310C

Description: 5310C Diss. Organic Carbon LF

Client: Evergy Kansas Central, Inc.

Date: November 17, 2021

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: LEC PERIMETER ASH POND WELL CC

Pace Project No.: 60380536

Method: EPA 9060

Description: Total Organic Carbon

Client: Evergy Kansas Central, Inc.

Date: November 17, 2021

General Information:

8 samples were analyzed for EPA 9060 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: 745661

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60380676001

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

- MSD (Lab ID: 2987037)
- Total Organic Carbon

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: LEC PERIMETER ASH POND WELL CC

Pace Project No.: 60380536

Sample: MW-C-091521	Lab ID: 60380536001	Collected: 09/15/21 11:20	Received: 09/17/21 14:10	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	0.15	mg/L	0.0050	1	09/24/21 16:00	09/27/21 23:52	7440-39-3	
Boron, Total Recoverable	0.27	mg/L	0.10	1	09/24/21 16:00	09/27/21 23:52	7440-42-8	
Calcium, Total Recoverable	147	mg/L	0.20	1	09/24/21 16:00	09/27/21 23:52	7440-70-2	
Iron, Total Recoverable	6.0	mg/L	0.050	1	09/24/21 16:00	09/27/21 23:52	7439-89-6	
Magnesium, Total Recoverable	18.3	mg/L	0.050	1	09/24/21 16:00	09/27/21 23:52	7439-95-4	
Manganese, Total Recoverable	0.85	mg/L	0.0050	1	09/24/21 16:00	09/27/21 23:52	7439-96-5	
Potassium, Total Recoverable	6.7	mg/L	0.50	1	09/24/21 16:00	09/27/21 23:52	7440-09-7	
Sodium, Total Recoverable	29.0	mg/L	0.50	1	09/24/21 16:00	09/27/21 23:52	7440-23-5	
Total Hardness by 2340B, Total Recoverable	443	mg/L	0.50	1	09/24/21 16:00	09/27/21 23:52		
200.7 Metals, Dissolved								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Arsenic, Dissolved	<0.010	mg/L	0.010	1	09/24/21 16:10	10/01/21 23:56	7440-38-2	
Iron, Dissolved	<0.050	mg/L	0.050	1	09/24/21 16:10	10/02/21 21:41	7439-89-6	
Lithium, Dissolved	0.021	mg/L	0.010	1	09/24/21 16:10	10/01/21 23:56	7439-93-2	
Manganese, Dissolved	0.38	mg/L	0.0050	1	09/24/21 16:10	10/01/21 23:56	7439-96-5	
Molybdenum, Dissolved	<0.020	mg/L	0.020	1	09/24/21 16:10	10/01/21 23:56	7439-98-7	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Total Recoverable	0.024	mg/L	0.010	1	09/24/21 16:00	09/27/21 23:52	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	0.0045	mg/L	0.0010	1	09/24/21 16:00	10/05/21 14:37	7440-38-2	
Cobalt, Total Recoverable	0.0064	mg/L	0.0010	1	09/24/21 16:00	10/05/21 14:37	7440-48-4	
Molybdenum, Total Recoverable	0.013	mg/L	0.0010	1	09/24/21 16:00	10/05/21 14:37	7439-98-7	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Kansas City								
Alkalinity,Bicarbonate (CaCO3)	314	mg/L	20.0	1		09/23/21 15:55		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	20.0	1		09/23/21 15:55		
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Kansas City								
Total Dissolved Solids	621	mg/L	10.0	1		09/22/21 13:38		
Iron, Ferrous								
Analytical Method: SM 3500-Fe B#4								
Pace Analytical Services - Kansas City								
Iron, Ferrous	0.76	mg/L	0.20	1		09/23/21 15:30		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		09/20/21 15:12		H6

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ANALYTICAL RESULTS

Project: LEC PERIMETER ASH POND WELL CC

Pace Project No.: 60380536

Sample: MW-C-091521	Lab ID: 60380536001	Collected: 09/15/21 11:20	Received: 09/17/21 14:10	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0								
Pace Analytical Services - Kansas City								
Chloride	30.3	mg/L	5.0	5		09/23/21 16:13	16887-00-6	
Fluoride	0.38	mg/L	0.20	1		09/22/21 20:11	16984-48-8	
Sulfate	116	mg/L	20.0	20		09/22/21 20:29	14808-79-8	
5310C Diss. Organic Carbon LF								
Analytical Method: SM 5310C								
Pace Analytical Services - Kansas City								
Dissolved Organic Carbon	1.8	mg/L	1.0	1		09/24/21 13:26		
Total Organic Carbon								
Analytical Method: EPA 9060								
Pace Analytical Services - Kansas City								
Total Organic Carbon	2.0	mg/L	1.0	1		09/28/21 11:50	7440-44-0	
Total Organic Carbon	2.2	mg/L	1.0	1		09/28/21 11:50	7440-44-0	
Total Organic Carbon	2.3	mg/L	1.0	1		09/28/21 11:50	7440-44-0	
Total Organic Carbon	2.3	mg/L	1.0	1		09/28/21 11:50	7440-44-0	
Mean Total Organic Carbon	2.2	mg/L	1.0	1		09/28/21 11:50	7440-44-0	

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ANALYTICAL RESULTS

Project: LEC PERIMETER ASH POND WELL CC

Pace Project No.: 60380536

Sample: MW-D-091521	Lab ID: 60380536002	Collected: 09/15/21 13:15	Received: 09/17/21 14:10	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	0.14	mg/L	0.0050	1	09/24/21 16:00	09/27/21 23:55	7440-39-3	
Boron, Total Recoverable	0.50	mg/L	0.10	1	09/24/21 16:00	09/27/21 23:55	7440-42-8	
Calcium, Total Recoverable	160	mg/L	0.20	1	09/24/21 16:00	09/27/21 23:55	7440-70-2	
Iron, Total Recoverable	9.5	mg/L	0.050	1	09/24/21 16:00	09/27/21 23:55	7439-89-6	
Magnesium, Total Recoverable	28.3	mg/L	0.050	1	09/24/21 16:00	09/27/21 23:55	7439-95-4	
Manganese, Total Recoverable	3.3	mg/L	0.0050	1	09/24/21 16:00	09/27/21 23:55	7439-96-5	
Potassium, Total Recoverable	6.2	mg/L	0.50	1	09/24/21 16:00	09/27/21 23:55	7440-09-7	
Sodium, Total Recoverable	19.8	mg/L	0.50	1	09/24/21 16:00	09/27/21 23:55	7440-23-5	
Total Hardness by 2340B, Total Recoverable	517	mg/L	0.50	1	09/24/21 16:00	09/27/21 23:55		
200.7 Metals, Dissolved								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Arsenic, Dissolved	<0.010	mg/L	0.010	1	09/24/21 16:10	10/02/21 00:10	7440-38-2	
Iron, Dissolved	11.1	mg/L	0.050	1	09/24/21 16:10	10/02/21 00:10	7439-89-6	
Lithium, Dissolved	<0.010	mg/L	0.010	1	09/24/21 16:10	10/02/21 00:10	7439-93-2	
Manganese, Dissolved	3.7	mg/L	0.0050	1	09/24/21 16:10	10/02/21 00:10	7439-96-5	
Molybdenum, Dissolved	<0.020	mg/L	0.020	1	09/24/21 16:10	10/02/21 00:10	7439-98-7	
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	09/24/21 16:00	09/27/21 23:55	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	0.0045	mg/L	0.0010	1	09/24/21 16:00	09/28/21 16:46	7440-38-2	
Cobalt, Total Recoverable	<0.0010	mg/L	0.0010	1	09/24/21 16:00	09/28/21 16:46	7440-48-4	
Molybdenum, Total Recoverable	<0.0010	mg/L	0.0010	1	09/24/21 16:00	09/28/21 16:46	7439-98-7	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Kansas City								
Alkalinity,Bicarbonate (CaCO3)	470	mg/L	20.0	1		09/24/21 17:02		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	20.0	1		09/24/21 17:02		
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Kansas City								
Total Dissolved Solids	672	mg/L	10.0	1		09/22/21 13:39		
Iron, Ferrous								
Analytical Method: SM 3500-Fe B#4								
Pace Analytical Services - Kansas City								
Iron, Ferrous	0.23	mg/L	0.20	1		09/23/21 15:32		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		09/20/21 15:17		H6

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ANALYTICAL RESULTS

Project: LEC PERIMETER ASH POND WELL CC

Pace Project No.: 60380536

Sample: MW-D-091521		Lab ID: 60380536002		Collected: 09/15/21 13:15	Received: 09/17/21 14:10	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City						
Chloride	7.0	mg/L	1.0	1		09/22/21 20:48	16887-00-6	
Fluoride	0.38	mg/L	0.20	1		09/22/21 20:48	16984-48-8	
Sulfate	100	mg/L	20.0	20		09/22/21 21:06	14808-79-8	
5310C Diss. Organic Carbon LF		Analytical Method: SM 5310C Pace Analytical Services - Kansas City						
Dissolved Organic Carbon	4.6	mg/L	1.0	1		09/24/21 13:39		
Total Organic Carbon		Analytical Method: EPA 9060 Pace Analytical Services - Kansas City						
Total Organic Carbon	5.2	mg/L	1.0	1		09/28/21 13:53	7440-44-0	
Total Organic Carbon	5.5	mg/L	1.0	1		09/28/21 13:53	7440-44-0	
Total Organic Carbon	5.5	mg/L	1.0	1		09/28/21 13:53	7440-44-0	
Total Organic Carbon	5.5	mg/L	1.0	1		09/28/21 13:53	7440-44-0	
Mean Total Organic Carbon	5.4	mg/L	1.0	1		09/28/21 13:53	7440-44-0	

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ANALYTICAL RESULTS

Project: LEC PERIMETER ASH POND WELL CC

Pace Project No.: 60380536

Sample: MW-G-091521	Lab ID: 60380536003	Collected: 09/15/21 14:55	Received: 09/17/21 14:10	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	09/24/21 16:00	09/27/21 23:57	7440-39-3	
Boron, Total Recoverable	1.8	mg/L	0.10	1	09/24/21 16:00	09/27/21 23:57	7440-42-8	
Calcium, Total Recoverable	197	mg/L	0.20	1	09/24/21 16:00	09/27/21 23:57	7440-70-2	
Iron, Total Recoverable	0.60	mg/L	0.050	1	09/24/21 16:00	09/27/21 23:57	7439-89-6	
Magnesium, Total Recoverable	28.2	mg/L	0.050	1	09/24/21 16:00	09/27/21 23:57	7439-95-4	
Manganese, Total Recoverable	0.32	mg/L	0.0050	1	09/24/21 16:00	09/27/21 23:57	7439-96-5	
Potassium, Total Recoverable	10.3	mg/L	0.50	1	09/24/21 16:00	09/27/21 23:57	7440-09-7	
Sodium, Total Recoverable	84.2	mg/L	0.50	1	09/24/21 16:00	09/27/21 23:57	7440-23-5	
Total Hardness by 2340B, Total Recoverable	609	mg/L	0.50	1	09/24/21 16:00	09/27/21 23:57		
200.7 Metals, Dissolved								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Arsenic, Dissolved	<0.010	mg/L	0.010	1	09/24/21 16:10	10/02/21 00:13	7440-38-2	
Iron, Dissolved	0.54	mg/L	0.050	1	09/24/21 16:10	10/02/21 00:13	7439-89-6	
Lithium, Dissolved	<0.010	mg/L	0.010	1	09/24/21 16:10	10/02/21 00:13	7439-93-2	
Manganese, Dissolved	0.37	mg/L	0.0050	1	09/24/21 16:10	10/02/21 00:13	7439-96-5	
Molybdenum, Dissolved	<0.020	mg/L	0.020	1	09/24/21 16:10	10/02/21 00:13	7439-98-7	
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	09/24/21 16:00	09/27/21 23:57	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	0.0052	mg/L	0.0010	1	09/24/21 16:00	10/05/21 14:40	7440-38-2	
Cobalt, Total Recoverable	0.0011	mg/L	0.0010	1	09/24/21 16:00	10/05/21 14:40	7440-48-4	
Molybdenum, Total Recoverable	0.0051	mg/L	0.0010	1	09/24/21 16:00	10/05/21 14:40	7439-98-7	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Kansas City								
Alkalinity,Bicarbonate (CaCO3)	310	mg/L	20.0	1		09/23/21 16:00		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	20.0	1		09/23/21 16:00		
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Kansas City								
Total Dissolved Solids	1100	mg/L	10.0	1		09/22/21 13:39		
Iron, Ferrous								
Analytical Method: SM 3500-Fe B#4								
Pace Analytical Services - Kansas City								
Iron, Ferrous	<0.20	mg/L	0.20	1		09/23/21 15:34		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		09/20/21 15:25		H6

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ANALYTICAL RESULTS

Project: LEC PERIMETER ASH POND WELL CC

Pace Project No.: 60380536

Sample: MW-G-091521	Lab ID: 60380536003	Collected: 09/15/21 14:55	Received: 09/17/21 14:10	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City						
Chloride	21.2	mg/L	5.0	5		09/23/21 16:24	16887-00-6	
Fluoride	0.25	mg/L	0.20	1		09/22/21 21:24	16984-48-8	
Sulfate	418	mg/L	50.0	50		09/23/21 16:48	14808-79-8	
5310C Diss. Organic Carbon LF		Analytical Method: SM 5310C Pace Analytical Services - Kansas City						
Dissolved Organic Carbon	3.0	mg/L	1.0	1		09/24/21 13:53		
Total Organic Carbon		Analytical Method: EPA 9060 Pace Analytical Services - Kansas City						
Total Organic Carbon	2.6	mg/L	1.0	1		09/28/21 14:56	7440-44-0	
Total Organic Carbon	2.7	mg/L	1.0	1		09/28/21 14:56	7440-44-0	
Total Organic Carbon	2.7	mg/L	1.0	1		09/28/21 14:56	7440-44-0	
Total Organic Carbon	2.7	mg/L	1.0	1		09/28/21 14:56	7440-44-0	
Mean Total Organic Carbon	2.7	mg/L	1.0	1		09/28/21 14:56	7440-44-0	

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ANALYTICAL RESULTS

Project: LEC PERIMETER ASH POND WELL CC

Pace Project No.: 60380536

Sample: MW-M-091521	Lab ID: 60380536004	Collected: 09/15/21 10:05	Received: 09/17/21 14:10	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	0.15	mg/L	0.0050	1	09/24/21 16:00	09/28/21 00:12	7440-39-3	
Boron, Total Recoverable	0.38	mg/L	0.10	1	09/24/21 16:00	09/28/21 12:36	7440-42-8	
Calcium, Total Recoverable	152	mg/L	0.20	1	09/24/21 16:00	09/28/21 00:12	7440-70-2	
Iron, Total Recoverable	0.81	mg/L	0.050	1	09/24/21 16:00	09/28/21 00:12	7439-89-6	
Magnesium, Total Recoverable	18.1	mg/L	0.050	1	09/24/21 16:00	09/28/21 00:12	7439-95-4	
Manganese, Total Recoverable	1.4	mg/L	0.0050	1	09/24/21 16:00	09/28/21 00:12	7439-96-5	
Potassium, Total Recoverable	6.1	mg/L	0.50	1	09/24/21 16:00	09/28/21 00:12	7440-09-7	
Sodium, Total Recoverable	16.1	mg/L	0.50	1	09/24/21 16:00	09/28/21 00:12	7440-23-5	
Total Hardness by 2340B, Total Recoverable	453	mg/L	0.50	1	09/24/21 16:00	09/28/21 00:12		
200.7 Metals, Dissolved								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Arsenic, Dissolved	<0.010	mg/L	0.010	1	09/24/21 16:10	10/02/21 00:15	7440-38-2	
Iron, Dissolved	<0.050	mg/L	0.050	1	09/24/21 16:10	10/02/21 00:15	7439-89-6	
Lithium, Dissolved	0.018	mg/L	0.010	1	09/24/21 16:10	10/02/21 00:15	7439-93-2	
Manganese, Dissolved	0.38	mg/L	0.0050	1	09/24/21 16:10	10/02/21 00:15	7439-96-5	
Molybdenum, Dissolved	<0.020	mg/L	0.020	1	09/24/21 16:10	10/02/21 00:15	7439-98-7	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Total Recoverable	0.014	mg/L	0.010	1	09/24/21 16:00	09/28/21 00:12	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	0.0056	mg/L	0.0010	1	09/24/21 16:00	10/05/21 14:44	7440-38-2	
Cobalt, Total Recoverable	0.0017	mg/L	0.0010	1	09/24/21 16:00	10/05/21 14:44	7440-48-4	
Molybdenum, Total Recoverable	0.013	mg/L	0.0010	1	09/24/21 16:00	10/05/21 14:44	7439-98-7	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Kansas City								
Alkalinity,Bicarbonate (CaCO3)	376	mg/L	20.0	1		09/24/21 17:15		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	20.0	1		09/24/21 17:15		
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Kansas City								
Total Dissolved Solids	681	mg/L	10.0	1		09/22/21 13:39		
Iron, Ferrous								
Analytical Method: SM 3500-Fe B#4								
Pace Analytical Services - Kansas City								
Iron, Ferrous	<0.20	mg/L	0.20	1		09/23/21 15:30		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		09/20/21 15:09		H6

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ANALYTICAL RESULTS

Project: LEC PERIMETER ASH POND WELL CC

Pace Project No.: 60380536

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Sample: MW-M-091521								
Lab ID: 60380536004								
Collected: 09/15/21 10:05								
Received: 09/17/21 14:10								
Matrix: Water								
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0								
Pace Analytical Services - Kansas City								
Chloride	15.2	mg/L	1.0	1		09/22/21 23:15	16887-00-6	
Fluoride	0.46	mg/L	0.20	1		09/22/21 23:15	16984-48-8	
Sulfate	97.1	mg/L	20.0	20		09/22/21 23:33	14808-79-8	
5310C Diss. Organic Carbon LF								
Analytical Method: SM 5310C								
Pace Analytical Services - Kansas City								
Dissolved Organic Carbon	1.6	mg/L	1.0	1		09/24/21 14:06		
Total Organic Carbon								
Analytical Method: EPA 9060								
Pace Analytical Services - Kansas City								
Total Organic Carbon	1.5	mg/L	1.0	1		09/28/21 15:27	7440-44-0	
Total Organic Carbon	1.7	mg/L	1.0	1		09/28/21 15:27	7440-44-0	
Total Organic Carbon	1.6	mg/L	1.0	1		09/28/21 15:27	7440-44-0	
Total Organic Carbon	1.6	mg/L	1.0	1		09/28/21 15:27	7440-44-0	
Mean Total Organic Carbon	1.6	mg/L	1.0	1		09/28/21 15:27	7440-44-0	

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ANALYTICAL RESULTS

Project: LEC PERIMETER ASH POND WELL CC

Pace Project No.: 60380536

Sample: MW-O-091521	Lab ID: 60380536005	Collected: 09/15/21 16:35	Received: 09/17/21 14:10	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	0.040	mg/L	0.0050	1	09/24/21 16:00	09/28/21 00:15	7440-39-3	
Boron, Total Recoverable	2.8	mg/L	0.10	1	09/24/21 16:00	09/28/21 12:39	7440-42-8	
Calcium, Total Recoverable	528	mg/L	0.20	1	09/24/21 16:00	09/28/21 00:15	7440-70-2	
Iron, Total Recoverable	8.0	mg/L	0.050	1	09/24/21 16:00	09/28/21 00:15	7439-89-6	
Magnesium, Total Recoverable	176	mg/L	0.050	1	09/24/21 16:00	09/28/21 00:15	7439-95-4	
Manganese, Total Recoverable	1.7	mg/L	0.0050	1	09/24/21 16:00	09/28/21 00:15	7439-96-5	
Potassium, Total Recoverable	28.6	mg/L	0.50	1	09/24/21 16:00	09/28/21 00:15	7440-09-7	
Sodium, Total Recoverable	431	mg/L	0.50	1	09/24/21 16:00	09/28/21 00:15	7440-23-5	
Total Hardness by 2340B, Total Recoverable	2040	mg/L	0.50	1	09/24/21 16:00	09/28/21 00:15		
200.7 Metals, Dissolved								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Arsenic, Dissolved	0.016	mg/L	0.010	1	09/24/21 16:10	10/02/21 00:18	7440-38-2	
Iron, Dissolved	8.8	mg/L	0.050	1	09/24/21 16:10	10/02/21 00:18	7439-89-6	
Lithium, Dissolved	0.090	mg/L	0.010	1	09/24/21 16:10	10/02/21 00:18	7439-93-2	
Manganese, Dissolved	1.7	mg/L	0.0050	1	09/24/21 16:10	10/02/21 00:18	7439-96-5	
Molybdenum, Dissolved	0.058	mg/L	0.020	1	09/24/21 16:10	10/02/21 00:18	7439-98-7	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Total Recoverable	0.085	mg/L	0.010	1	09/24/21 16:00	09/28/21 00:15	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	0.011	mg/L	0.0050	5	09/24/21 16:00	10/05/21 14:52	7440-38-2	
Cobalt, Total Recoverable	<0.0050	mg/L	0.0050	5	09/24/21 16:00	10/05/21 14:52	7440-48-4	D3
Molybdenum, Total Recoverable	0.055	mg/L	0.0050	5	09/24/21 16:00	10/05/21 14:52	7439-98-7	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Kansas City								
Alkalinity,Bicarbonate (CaCO3)	222	mg/L	20.0	1		09/24/21 17:20		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	20.0	1		09/24/21 17:20		
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Kansas City								
Total Dissolved Solids	4010	mg/L	100	1		09/22/21 13:39		
Iron, Ferrous								
Analytical Method: SM 3500-Fe B#4								
Pace Analytical Services - Kansas City								
Iron, Ferrous	<0.20	mg/L	0.20	1		09/23/21 15:35		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		09/20/21 15:30		H6

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ANALYTICAL RESULTS

Project: LEC PERIMETER ASH POND WELL CC

Pace Project No.: 60380536

Sample: MW-O-091521	Lab ID: 60380536005	Collected: 09/15/21 16:35	Received: 09/17/21 14:10	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City						
Chloride	537	mg/L	100	100		09/23/21 17:36	16887-00-6	
Fluoride	3.5	mg/L	0.20	1		09/22/21 23:51	16984-48-8	
Sulfate	1890	mg/L	100	100		09/23/21 17:36	14808-79-8	
5310C Diss. Organic Carbon LF		Analytical Method: SM 5310C Pace Analytical Services - Kansas City						
Dissolved Organic Carbon	1.7	mg/L	1.0	1		09/24/21 14:19		
Total Organic Carbon		Analytical Method: EPA 9060 Pace Analytical Services - Kansas City						
Total Organic Carbon	1.7	mg/L	1.0	1		09/28/21 15:58	7440-44-0	
Total Organic Carbon	2.3	mg/L	1.0	1		09/28/21 15:58	7440-44-0	
Total Organic Carbon	2.3	mg/L	1.0	1		09/28/21 15:58	7440-44-0	
Total Organic Carbon	2.5	mg/L	1.0	1		09/28/21 15:58	7440-44-0	
Mean Total Organic Carbon	2.2	mg/L	1.0	1		09/28/21 15:58	7440-44-0	

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ANALYTICAL RESULTS

Project: LEC PERIMETER ASH POND WELL CC

Pace Project No.: 60380536

Sample: MW-P-091521	Lab ID: 60380536006	Collected: 09/15/21 14:10	Received: 09/17/21 14:10	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	0.046	mg/L	0.0050	1	09/24/21 16:00	09/28/21 00:18	7440-39-3	
Boron, Total Recoverable	1.0	mg/L	0.10	1	09/24/21 16:00	09/28/21 12:42	7440-42-8	
Calcium, Total Recoverable	182	mg/L	0.20	1	09/24/21 16:00	09/28/21 00:18	7440-70-2	
Iron, Total Recoverable	1.9	mg/L	0.050	1	09/24/21 16:00	09/28/21 00:18	7439-89-6	
Magnesium, Total Recoverable	39.7	mg/L	0.050	1	09/24/21 16:00	09/28/21 00:18	7439-95-4	
Manganese, Total Recoverable	1.8	mg/L	0.0050	1	09/24/21 16:00	09/28/21 00:18	7439-96-5	
Potassium, Total Recoverable	13.3	mg/L	0.50	1	09/24/21 16:00	09/28/21 00:18	7440-09-7	
Sodium, Total Recoverable	46.4	mg/L	0.50	1	09/24/21 16:00	09/28/21 00:18	7440-23-5	
Total Hardness by 2340B, Total Recoverable	617	mg/L	0.50	1	09/24/21 16:00	09/28/21 00:18		
200.7 Metals, Dissolved								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Arsenic, Dissolved	<0.010	mg/L	0.010	1	09/24/21 16:10	10/02/21 00:20	7440-38-2	
Iron, Dissolved	<0.050	mg/L	0.050	1	09/24/21 16:10	10/02/21 00:20	7439-89-6	
Lithium, Dissolved	0.024	mg/L	0.010	1	09/24/21 16:10	10/02/21 00:20	7439-93-2	
Manganese, Dissolved	1.8	mg/L	0.0050	1	09/24/21 16:10	10/02/21 00:20	7439-96-5	
Molybdenum, Dissolved	0.045	mg/L	0.020	1	09/24/21 16:10	10/02/21 00:20	7439-98-7	
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	09/24/21 16:00	09/28/21 12:42	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	0.0050	mg/L	0.0020	2	09/24/21 16:00	10/05/21 14:55	7440-38-2	
Cobalt, Total Recoverable	<0.0020	mg/L	0.0020	2	09/24/21 16:00	10/05/21 14:55	7440-48-4	D3
Molybdenum, Total Recoverable	0.043	mg/L	0.0020	2	09/24/21 16:00	10/05/21 14:55	7439-98-7	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Kansas City								
Alkalinity,Bicarbonate (CaCO3)	392	mg/L	20.0	1		09/23/21 16:07		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	20.0	1		09/23/21 16:07		
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Kansas City								
Total Dissolved Solids	927	mg/L	5.0	1		09/22/21 13:39		
Iron, Ferrous								
Analytical Method: SM 3500-Fe B#4								
Pace Analytical Services - Kansas City								
Iron, Ferrous	<0.20	mg/L	0.20	1		09/23/21 15:33		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		09/20/21 15:20		H6

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ANALYTICAL RESULTS

Project: LEC PERIMETER ASH POND WELL CC

Pace Project No.: 60380536

Sample: MW-P-091521	Lab ID: 60380536006	Collected: 09/15/21 14:10		Received: 09/17/21 14:10		Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0								
Pace Analytical Services - Kansas City								
Chloride	<1.0	mg/L	1.0	1		09/23/21 00:28	16887-00-6	
Fluoride	0.36	mg/L	0.20	1		09/23/21 00:28	16984-48-8	
Sulfate	70.4	mg/L	20.0	20		09/23/21 00:46	14808-79-8	
5310C Diss. Organic Carbon LF								
Analytical Method: SM 5310C								
Pace Analytical Services - Kansas City								
Dissolved Organic Carbon	2.0	mg/L	1.0	1		09/24/21 14:33		
Total Organic Carbon								
Analytical Method: EPA 9060								
Pace Analytical Services - Kansas City								
Total Organic Carbon	2.0	mg/L	1.0	1		09/28/21 16:57	7440-44-0	
Total Organic Carbon	2.3	mg/L	1.0	1		09/28/21 16:57	7440-44-0	
Total Organic Carbon	2.3	mg/L	1.0	1		09/28/21 16:57	7440-44-0	
Total Organic Carbon	2.3	mg/L	1.0	1		09/28/21 16:57	7440-44-0	
Mean Total Organic Carbon	2.2	mg/L	1.0	1		09/28/21 16:57	7440-44-0	

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ANALYTICAL RESULTS

Project: LEC PERIMETER ASH POND WELL CC

Pace Project No.: 60380536

Sample: MW-103-091521	Lab ID: 60380536007	Collected: 09/15/21 11:40	Received: 09/17/21 14:10	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	0.042	mg/L	0.0050	1	09/24/21 16:00	09/28/21 00:20	7440-39-3	
Boron, Total Recoverable	5.4	mg/L	0.10	1	09/24/21 16:00	09/28/21 12:52	7440-42-8	
Calcium, Total Recoverable	400	mg/L	0.20	1	09/24/21 16:00	09/28/21 00:20	7440-70-2	
Iron, Total Recoverable	6.2	mg/L	0.050	1	09/24/21 16:00	09/28/21 00:20	7439-89-6	
Magnesium, Total Recoverable	84.4	mg/L	0.050	1	09/24/21 16:00	09/28/21 00:20	7439-95-4	
Manganese, Total Recoverable	2.0	mg/L	0.0050	1	09/24/21 16:00	09/28/21 00:20	7439-96-5	
Potassium, Total Recoverable	22.4	mg/L	0.50	1	09/24/21 16:00	09/28/21 00:20	7440-09-7	
Sodium, Total Recoverable	312	mg/L	0.50	1	09/24/21 16:00	09/28/21 00:20	7440-23-5	
Total Hardness by 2340B, Total Recoverable	1350	mg/L	0.50	1	09/24/21 16:00	09/28/21 00:20		
200.7 Metals, Dissolved								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Arsenic, Dissolved	0.018	mg/L	0.010	1	09/24/21 16:10	10/02/21 00:23	7440-38-2	
Iron, Dissolved	6.4	mg/L	0.050	1	09/24/21 16:10	10/02/21 00:23	7439-89-6	
Lithium, Dissolved	0.050	mg/L	0.010	1	09/24/21 16:10	10/02/21 00:23	7439-93-2	
Manganese, Dissolved	2.2	mg/L	0.0050	1	09/24/21 16:10	10/02/21 00:23	7439-96-5	
Molybdenum, Dissolved	0.21	mg/L	0.020	1	09/24/21 16:10	10/02/21 00:23	7439-98-7	
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	09/24/21 16:00	09/28/21 00:20	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	0.0073	mg/L	0.0050	5	09/24/21 16:00	10/05/21 14:59	7440-38-2	
Cobalt, Total Recoverable	<0.0050	mg/L	0.0050	5	09/24/21 16:00	10/05/21 14:59	7440-48-4	D3
Molybdenum, Total Recoverable	0.20	mg/L	0.0050	5	09/24/21 16:00	10/05/21 14:59	7439-98-7	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Kansas City								
Alkalinity,Bicarbonate (CaCO3)	207	mg/L	20.0	1		09/24/21 17:26		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	20.0	1		09/24/21 17:26		
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Kansas City								
Total Dissolved Solids	3150	mg/L	66.7	1		09/22/21 13:39		
Iron, Ferrous								
Analytical Method: SM 3500-Fe B#4								
Pace Analytical Services - Kansas City								
Iron, Ferrous	0.29	mg/L	0.20	1		09/23/21 15:33		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		09/20/21 15:22		H6

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ANALYTICAL RESULTS

Project: LEC PERIMETER ASH POND WELL CC

Pace Project No.: 60380536

Sample: MW-103-091521	Lab ID: 60380536007	Collected: 09/15/21 11:40		Received: 09/17/21 14:10		Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City						
Chloride	367	mg/L	20.0	20		09/23/21 01:23	16887-00-6	
Fluoride	2.6	mg/L	0.20	1		09/23/21 01:05	16984-48-8	
Sulfate	1500	mg/L	200	200		09/23/21 18:11	14808-79-8	
5310C Diss. Organic Carbon LF		Analytical Method: SM 5310C Pace Analytical Services - Kansas City						
Dissolved Organic Carbon	1.2	mg/L	1.0	1		09/24/21 14:46		
Total Organic Carbon		Analytical Method: EPA 9060 Pace Analytical Services - Kansas City						
Total Organic Carbon	1.3	mg/L	1.0	1		09/28/21 17:28	7440-44-0	
Total Organic Carbon	1.7	mg/L	1.0	1		09/28/21 17:28	7440-44-0	
Total Organic Carbon	1.8	mg/L	1.0	1		09/28/21 17:28	7440-44-0	
Total Organic Carbon	1.8	mg/L	1.0	1		09/28/21 17:28	7440-44-0	
Mean Total Organic Carbon	1.6	mg/L	1.0	1		09/28/21 17:28	7440-44-0	

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ANALYTICAL RESULTS

Project: LEC PERIMETER ASH POND WELL CC

Pace Project No.: 60380536

Sample: MW-N-091621	Lab ID: 60380536008	Collected: 09/16/21 14:25	Received: 09/17/21 13:10	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	0.090	mg/L	0.0050	1	09/24/21 16:00	09/27/21 23:42	7440-39-3	
Boron, Total Recoverable	1.0	mg/L	0.10	1	09/24/21 16:00	09/27/21 23:42	7440-42-8	
Calcium, Total Recoverable	116	mg/L	0.20	1	09/24/21 16:00	09/27/21 23:42	7440-70-2	
Iron, Total Recoverable	1.5	mg/L	0.050	1	09/24/21 16:00	09/27/21 23:42	7439-89-6	
Magnesium, Total Recoverable	51.4	mg/L	0.050	1	09/24/21 16:00	09/27/21 23:42	7439-95-4	
Manganese, Total Recoverable	0.38	mg/L	0.0050	1	09/24/21 16:00	09/27/21 23:42	7439-96-5	
Potassium, Total Recoverable	17.1	mg/L	0.50	1	09/24/21 16:00	09/27/21 23:42	7440-09-7	
Sodium, Total Recoverable	45.9	mg/L	0.50	1	09/24/21 16:00	09/27/21 23:42	7440-23-5	
Total Hardness by 2340B, Total Recoverable	502	mg/L	0.50	1	09/24/21 16:00	09/27/21 23:42		
200.7 Metals, Dissolved								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Arsenic, Dissolved	<0.010	mg/L	0.010	1	09/27/21 16:35	10/02/21 01:10	7440-38-2	
Iron, Dissolved	1.4	mg/L	0.050	1	09/27/21 16:35	10/02/21 01:10	7439-89-6	
Lithium, Dissolved	0.046	mg/L	0.010	1	09/27/21 16:35	10/02/21 01:10	7439-93-2	
Manganese, Dissolved	0.37	mg/L	0.0050	1	09/27/21 16:35	10/02/21 01:10	7439-96-5	
Molybdenum, Dissolved	0.036	mg/L	0.020	1	09/27/21 16:35	10/02/21 01:10	7439-98-7	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Total Recoverable	0.048	mg/L	0.010	1	09/24/21 16:00	09/27/21 23:42	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	0.0097	mg/L	0.0010	1	09/24/21 16:00	10/05/21 15:24	7440-38-2	
Cobalt, Total Recoverable	<0.0010	mg/L	0.0010	1	09/24/21 16:00	10/05/21 15:24	7440-48-4	
Molybdenum, Total Recoverable	0.035	mg/L	0.0010	1	09/24/21 16:00	10/05/21 15:24	7439-98-7	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Kansas City								
Alkalinity,Bicarbonate (CaCO3)	429	mg/L	20.0	1		09/23/21 16:23		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	20.0	1		09/23/21 16:23		
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Kansas City								
Total Dissolved Solids	656	mg/L	10.0	1		09/22/21 13:40		
Iron, Ferrous								
Analytical Method: SM 3500-Fe B#4								
Pace Analytical Services - Kansas City								
Iron, Ferrous	<0.20	mg/L	0.20	1		09/27/21 15:46		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		09/24/21 12:46		H6

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ANALYTICAL RESULTS

Project: LEC PERIMETER ASH POND WELL CC

Pace Project No.: 60380536

Sample: MW-N-091621	Lab ID: 60380536008	Collected: 09/16/21 14:25	Received: 09/17/21 13:10	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City						
Chloride	24.3	mg/L	5.0	5		09/24/21 18:51	16887-00-6	
Fluoride	4.1	mg/L	0.20	1		09/24/21 02:23	16984-48-8	
Sulfate	111	mg/L	20.0	20		09/24/21 02:41	14808-79-8	
5310C Diss. Organic Carbon LF		Analytical Method: SM 5310C Pace Analytical Services - Kansas City						
Dissolved Organic Carbon	2.1	mg/L	1.0	1		09/28/21 11:39		
Total Organic Carbon		Analytical Method: EPA 9060 Pace Analytical Services - Kansas City						
Total Organic Carbon	2.1	mg/L	1.0	1		09/27/21 13:41	7440-44-0	
Total Organic Carbon	2.3	mg/L	1.0	1		09/27/21 13:41	7440-44-0	
Total Organic Carbon	2.4	mg/L	1.0	1		09/27/21 13:41	7440-44-0	
Total Organic Carbon	2.3	mg/L	1.0	1		09/27/21 13:41	7440-44-0	
Mean Total Organic Carbon	2.3	mg/L	1.0	1		09/27/21 13:41	7440-44-0	

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELL CC

Pace Project No.: 60380536

QC Batch:	745486	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: 60380536001, 60380536002, 60380536003, 60380536004, 60380536005, 60380536006, 60380536007

METHOD BLANK:	2986089	Matrix:	Water
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Associated Lab Samples: 60380536001, 60380536002, 60380536003, 60380536004, 60380536005, 60380536006, 60380536007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Barium	mg/L	<0.0050	0.0050	09/27/21 23:47	
Boron	mg/L	<0.10	0.10	09/27/21 23:47	
Calcium	mg/L	<0.20	0.20	09/27/21 23:47	
Hardness, Total(SM 2340B)	mg/L	<0.50	0.50	09/27/21 23:47	
Iron	mg/L	<0.050	0.050	09/27/21 23:47	
Magnesium	mg/L	<0.050	0.050	09/27/21 23:47	
Manganese	mg/L	<0.0050	0.0050	09/27/21 23:47	
Potassium	mg/L	<0.50	0.50	09/27/21 23:47	
Sodium	mg/L	<0.50	0.50	09/27/21 23:47	

LABORATORY CONTROL SAMPLE: 2986090

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	mg/L	1	0.95	95	85-115	
Boron	mg/L	1	0.90	90	85-115	
Calcium	mg/L	10	9.6	96	85-115	
Hardness, Total(SM 2340B)	mg/L	66.2	65.8	99	85-115	
Iron	mg/L	10	9.8	98	85-115	
Magnesium	mg/L	10	10.1	101	85-115	
Manganese	mg/L	1	1.0	102	85-115	
Potassium	mg/L	10	9.7	97	85-115	
Sodium	mg/L	10	9.9	99	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2986091 2986092

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		60380536001 Result	Spike Conc.	Spike Conc.	MS Result						
Barium	mg/L	0.15	1	1	1.1	1.1	98	99	70-130	1	20
Boron	mg/L	0.27	1	1	1.2	1.2	93	88	70-130	4	20
Calcium	mg/L	147	10	10	159	158	119	114	70-130	0	20
Hardness, Total(SM 2340B)	mg/L	443	66.2	66.2	517	516	112	110	70-130	0	20
Iron	mg/L	6.0	10	10	16.3	16.4	103	105	70-130	1	20
Magnesium	mg/L	18.3	10	10	29.1	29.2	107	108	70-130	0	20
Manganese	mg/L	0.85	1	1	1.9	1.9	103	103	70-130	0	20
Potassium	mg/L	6.7	10	10	17.1	17.2	103	104	70-130	1	20
Sodium	mg/L	29.0	10	10	39.1	39.6	101	105	70-130	1	20

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELL CC

Pace Project No.: 60380536

MATRIX SPIKE SAMPLE:		2986093					
Parameter	Units	60380625003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Barium	mg/L	0.019	1	0.96	95	70-130	
Boron	mg/L	0.30	1	1.3	96	70-130	
Calcium	mg/L	270	10	261	131	70-130	M1
Hardness, Total(SM 2340B)	mg/L		66.2	990	100	70-130	
Iron	mg/L		10	9.6	96	70-130	
Magnesium	mg/L		10	82.4	82	70-130	
Manganese	mg/L		1	0.99	99	70-130	
Potassium	mg/L		10	12.5	99	70-130	
Sodium	mg/L		10	142	122	70-130	

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELL CC

Pace Project No.: 60380536

QC Batch: 745494	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: 60380536008

METHOD BLANK: 2986117 Matrix: Water

Associated Lab Samples: 60380536008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Barium	mg/L	<0.0050	0.0050	09/27/21 22:44	
Boron	mg/L	<0.10	0.10	09/27/21 22:44	
Calcium	mg/L	<0.20	0.20	09/27/21 22:44	
Hardness, Total(SM 2340B)	mg/L	<0.50	0.50	09/27/21 22:44	
Iron	mg/L	<0.050	0.050	09/27/21 22:44	
Magnesium	mg/L	<0.050	0.050	09/27/21 22:44	
Manganese	mg/L	<0.0050	0.0050	09/27/21 22:44	
Potassium	mg/L	<0.50	0.50	09/27/21 22:44	
Sodium	mg/L	<0.50	0.50	09/27/21 22:44	

LABORATORY CONTROL SAMPLE: 2986118

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	mg/L	1	0.96	96	85-115	
Boron	mg/L	1	0.92	92	85-115	
Calcium	mg/L	10	9.7	97	85-115	
Hardness, Total(SM 2340B)	mg/L	66.2	67.0	101	85-115	
Iron	mg/L	10	9.9	99	85-115	
Magnesium	mg/L	10	10.4	104	85-115	
Manganese	mg/L	1	1.0	105	85-115	
Potassium	mg/L	10	9.7	97	85-115	
Sodium	mg/L	10	9.8	98	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2986119 2986120

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		60380676002	Spike Conc.	Spike Conc.	Result							
Barium	mg/L	0.048	1	1	1.0	0.95	98	90	70-130	7	20	
Boron	mg/L	5.5	1	1	6.4	5.8	89	30	70-130	10	20	M1
Calcium	mg/L	468	10	10	477	440	90	-279	70-130	8	20	M1
Hardness, Total(SM 2340B)	mg/L	1570	66.2	66.2	1630	1500	87	-106	70-130	8	20	
Iron	mg/L	7.3	10	10	16.9	15.8	96	85	70-130	7	20	
Magnesium	mg/L	98.5	10	10	107	98.4	84	-1	70-130	8	20	M1
Manganese	mg/L	2.3	1	1	3.2	3.0	94	72	70-130	7	20	
Potassium	mg/L	26.4	10	10	36.6	33.6	102	72	70-130	8	20	
Sodium	mg/L	368	10	10	375	344	70	-236	70-130	9	20	M1

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELL CC

Pace Project No.: 60380536

MATRIX SPIKE SAMPLE:		2986121		60380682006		Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers			
Barium	mg/L	0.081	1	1.0	96	70-130				
Boron	mg/L	2.5	1	3.3	84	70-130				
Calcium	mg/L	552	10	551	-16	70-130	M1			
Hardness, Total(SM 2340B)	mg/L		66.2	2130	13	70-130				
Iron	mg/L		10	20.5	94	70-130				
Magnesium	mg/L		10	184	31	70-130	M1			
Manganese	mg/L		1	5.6	76	70-130				
Potassium	mg/L		10	41.5	97	70-130				
Sodium	mg/L		10	464	38	70-130	M1			

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELL CC
Pace Project No.: 60380536

QC Batch: 745520 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: 60380536001, 60380536002, 60380536003, 60380536004, 60380536005, 60380536006, 60380536007

METHOD BLANK: 2986184 Matrix: Water
Associated Lab Samples: 60380536001, 60380536002, 60380536003, 60380536004, 60380536005, 60380536006, 60380536007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic, Dissolved	mg/L	<0.010	0.010	10/01/21 23:51	
Iron, Dissolved	mg/L	<0.050	0.050	10/02/21 21:36	
Lithium, Dissolved	mg/L	<0.010	0.010	10/01/21 23:51	
Manganese, Dissolved	mg/L	<0.0050	0.0050	10/01/21 23:51	
Molybdenum, Dissolved	mg/L	<0.020	0.020	10/01/21 23:51	

LABORATORY CONTROL SAMPLE: 2986185

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic, Dissolved	mg/L	1	1.0	102	85-115	
Iron, Dissolved	mg/L	10	10.4	104	85-115	
Lithium, Dissolved	mg/L	1	1.0	104	85-115	
Manganese, Dissolved	mg/L	1	1.1	106	85-115	
Molybdenum, Dissolved	mg/L	1	1.1	109	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2986186 2986187

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		60380536001 Result	Spike Conc.	Spike Conc.	Result						
Arsenic, Dissolved	mg/L	<0.010	1	1	1.0	1.1	105	106	70-130	1	20
Iron, Dissolved	mg/L	<0.050	10	10	10.1	11.0	100	110	70-130	9	20
Lithium, Dissolved	mg/L	0.021	1	1	1.1	1.1	106	108	70-130	2	20
Manganese, Dissolved	mg/L	0.38	1	1	1.4	1.4	100	103	70-130	2	20
Molybdenum, Dissolved	mg/L	<0.020	1	1	1.1	1.1	108	111	70-130	2	20

MATRIX SPIKE SAMPLE: 2986188

Parameter	Units	60380763002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic, Dissolved	mg/L	0.020	1	1.1	104	70-130	
Iron, Dissolved	mg/L	1.8	10	14.0	122	70-130	
Lithium, Dissolved	mg/L	0.061	1	1.1	101	70-130	
Manganese, Dissolved	mg/L	0.51	1	2.2	171	70-130	M1
Molybdenum, Dissolved	mg/L	0.065	1	1.2	112	70-130	

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELL CC
Pace Project No.: 60380536

QC Batch: 745804	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: 60380536008

METHOD BLANK: 2987617 Matrix: Water
Associated Lab Samples: 60380536008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic, Dissolved	mg/L	<0.010	0.010	10/02/21 01:01	
Iron, Dissolved	mg/L	<0.050	0.050	10/02/21 01:01	
Lithium, Dissolved	mg/L	<0.010	0.010	10/02/21 01:01	
Manganese, Dissolved	mg/L	<0.0050	0.0050	10/02/21 01:01	
Molybdenum, Dissolved	mg/L	<0.020	0.020	10/02/21 01:01	

LABORATORY CONTROL SAMPLE: 2987618

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic, Dissolved	mg/L	1	0.92	92	85-115	
Iron, Dissolved	mg/L	10	10.4	104	85-115	
Lithium, Dissolved	mg/L	1	0.95	95	85-115	
Manganese, Dissolved	mg/L	1	1.0	100	85-115	
Molybdenum, Dissolved	mg/L	1	0.99	99	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2987619 2987620

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		60380536008 Result	Spike Conc.	Spike Conc.	Result						
Arsenic, Dissolved	mg/L	<0.010	1	1	0.98	0.94	97	93	70-130	4	20
Iron, Dissolved	mg/L	1.4	10	10	11.7	11.2	103	98	70-130	4	20
Lithium, Dissolved	mg/L	0.046	1	1	1.0	0.97	96	92	70-130	4	20
Manganese, Dissolved	mg/L	0.37	1	1	1.4	1.3	99	92	70-130	5	20
Molybdenum, Dissolved	mg/L	0.036	1	1	1.1	1.0	102	97	70-130	5	20

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELL CC
Pace Project No.: 60380536

QC Batch:	745483	Analysis Method:	EPA 200.8
QC Batch Method:	EPA 200.8	Analysis Description:	200.8 MET
		Laboratory:	Pace Analytical Services - Kansas City

Associated Lab Samples: 60380536001, 60380536002, 60380536003, 60380536004, 60380536005, 60380536006, 60380536007

METHOD BLANK: 2986071 Matrix: Water
Associated Lab Samples: 60380536001, 60380536002, 60380536003, 60380536004, 60380536005, 60380536006, 60380536007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/L	<0.0010	0.0010	09/28/21 16:43	
Cobalt	mg/L	<0.0010	0.0010	09/28/21 16:43	
Molybdenum	mg/L	<0.0010	0.0010	09/28/21 16:43	

LABORATORY CONTROL SAMPLE: 2986072

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	0.04	0.041	103	85-115	
Cobalt	mg/L	0.04	0.041	103	85-115	
Molybdenum	mg/L	0.04	0.042	104	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2986073 2986074

Parameter	Units	60380536002		60380536004		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Arsenic	mg/L	0.0045	0.04	0.04	0.046	0.046	104	104	70-130	0	20		
Cobalt	mg/L	<0.0010	0.04	0.04	0.038	0.039	96	98	70-130	2	20		
Molybdenum	mg/L	<0.0010	0.04	0.04	0.043	0.044	107	109	70-130	2	20		

MATRIX SPIKE SAMPLE: 2986075

Parameter	Units	60380625004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L			0.040			
Cobalt	mg/L	<0.0010	0.04	0.038	95	70-130	
Molybdenum	mg/L	0.0018	0.04	0.045	109	70-130	

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELL CC

Pace Project No.: 60380536

QC Batch: 745484

Analysis Method: EPA 200.8

QC Batch Method: EPA 200.8

Analysis Description: 200.8 MET

Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60380536008

METHOD BLANK: 2986078

Matrix: Water

Associated Lab Samples: 60380536008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/L	<0.0010	0.0010	09/28/21 17:40	
Cobalt	mg/L	<0.0010	0.0010	09/28/21 17:40	
Molybdenum	mg/L	<0.0010	0.0010	09/28/21 17:40	

LABORATORY CONTROL SAMPLE: 2986079

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	0.04	0.041	104	85-115	
Cobalt	mg/L	0.04	0.041	101	85-115	
Molybdenum	mg/L	0.04	0.042	105	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2986080 2986081

Parameter	Units	60380633001		MS		MSD		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result						
Arsenic	mg/L	<0.0050	0.04	0.04	0.04	0.042	0.042	102	103	70-130	1	20	
Cobalt	mg/L	<0.0050	0.04	0.04	0.04	0.040	0.041	94	95	70-130	1	20	
Molybdenum	mg/L	0.023	0.04	0.04	0.04	0.065	0.066	105	106	70-130	1	20	

MATRIX SPIKE SAMPLE: 2986082

Parameter	Units	60380682007 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	0.012	0.04	0.053	103	70-130	
Cobalt	mg/L	<0.0030	0.04	0.039	95	70-130	
Molybdenum	mg/L	0.20	0.04	0.25	115	70-130	

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELL CC

Pace Project No.: 60380536

QC Batch:	745480	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET
		Laboratory:	Pace Analytical Services - Kansas City
Associated Lab Samples:	60380536001, 60380536002, 60380536003, 60380536004, 60380536005, 60380536006, 60380536007		

METHOD BLANK:	2986054	Matrix:	Water
Associated Lab Samples:	60380536001, 60380536002, 60380536003, 60380536004, 60380536005, 60380536006, 60380536007		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lithium	mg/L	<0.010	0.010	09/27/21 23:47	

LABORATORY CONTROL SAMPLE: 2986055						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lithium	mg/L	1	0.95	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2986056												2986057	
Parameter	Units	60380536001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
Lithium	mg/L	0.024	1	1	0.98	1.0	96	99	75-125	3	20		

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELL CC

Pace Project No.: 60380536

QC Batch: 745481	Analysis Method: EPA 6010
QC Batch Method: EPA 3010	Analysis Description: 6010 MET
	Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60380536008

METHOD BLANK: 2986059 Matrix: Water

Associated Lab Samples: 60380536008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lithium	mg/L	<0.010	0.010	09/27/21 22:44	

LABORATORY CONTROL SAMPLE: 2986060

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lithium	mg/L	1	0.95	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2986061 2986062

Parameter	Units	60380676002		2986061		2986062		% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec				
Lithium	mg/L	0.050	1	1	1.1	0.98	100	93	75-125	7	20

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELL CC

Pace Project No.: 60380536

QC Batch: 745180

Analysis Method: SM 2320B

QC Batch Method: SM 2320B

Analysis Description: 2320B Alkalinity

Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60380536001, 60380536003, 60380536006, 60380536008

METHOD BLANK: 2984998

Matrix: Water

Associated Lab Samples: 60380536001, 60380536003, 60380536006, 60380536008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	20.0	09/23/21 15:21	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	20.0	09/23/21 15:21	

SAMPLE DUPLICATE: 2985000

Parameter	Units	60380567005 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity,Bicarbonate (CaCO3)	mg/L	101	92.1	10	10	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	ND		10	

SAMPLE DUPLICATE: 2985001

Parameter	Units	60380763003 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity,Bicarbonate (CaCO3)	mg/L	286	289	1	10	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	ND		10	

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELL CC

Pace Project No.: 60380536

QC Batch:	745375	Analysis Method:	SM 2320B
QC Batch Method:	SM 2320B	Analysis Description:	2320B Alkalinity
		Laboratory:	Pace Analytical Services - Kansas City

Associated Lab Samples: 60380536002, 60380536004, 60380536005, 60380536007

METHOD BLANK: 2985639 Matrix: Water

Associated Lab Samples: 60380536002, 60380536004, 60380536005, 60380536007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	20.0	09/24/21 16:50	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	20.0	09/24/21 16:50	

SAMPLE DUPLICATE: 2985641

Parameter	Units	60380536002 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity,Bicarbonate (CaCO3)	mg/L	470	478	2	10	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	ND		10	

SAMPLE DUPLICATE: 2985642

Parameter	Units	60380192006 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity,Bicarbonate (CaCO3)	mg/L	387	383	1	10	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	ND		10	

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELL CC

Pace Project No.: 60380536

QC Batch: 744751

Analysis Method: SM 2540C

QC Batch Method: SM 2540C

Analysis Description: 2540C Total Dissolved Solids

Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60380536001, 60380536002, 60380536003, 60380536004, 60380536005, 60380536006, 60380536007, 60380536008

METHOD BLANK: 2983409

Matrix: Water

Associated Lab Samples: 60380536001, 60380536002, 60380536003, 60380536004, 60380536005, 60380536006, 60380536007, 60380536008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<5.0	5.0	09/22/21 13:36	

LABORATORY CONTROL SAMPLE: 2983410

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	1000	1000	100	80-120	

SAMPLE DUPLICATE: 2983411

Parameter	Units	60380245009 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1640	1650	1	10	

SAMPLE DUPLICATE: 2983773

Parameter	Units	60380536001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	621	608	2	10	

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELL CC

Pace Project No.: 60380536

QC Batch: 744613 Analysis Method: SM 3500-Fe B#4
 QC Batch Method: SM 3500-Fe B#4 Analysis Description: Iron, Ferrous
 Laboratory: Pace Analytical Services - Kansas City
 Associated Lab Samples: 60380536001, 60380536002, 60380536003, 60380536004, 60380536005, 60380536006, 60380536007

METHOD BLANK: 2983036 Matrix: Water
 Associated Lab Samples: 60380536001, 60380536002, 60380536003, 60380536004, 60380536005, 60380536006, 60380536007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron, Ferrous	mg/L	<0.20	0.20	09/23/21 15:29	H6

LABORATORY CONTROL SAMPLE: 2983037

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Ferrous	mg/L	2	2.2	108	90-110	H6

SAMPLE DUPLICATE: 2983038

Parameter	Units	60380536004 Result	Dup Result	RPD	Max RPD	Qualifiers
Iron, Ferrous	mg/L	<0.20	<0.20		20	H6

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELL CC

Pace Project No.: 60380536

QC Batch: 745803	Analysis Method: SM 3500-Fe B#4
QC Batch Method: SM 3500-Fe B#4	Analysis Description: Iron, Ferrous
	Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60380536008

METHOD BLANK: 2987614 Matrix: Water

Associated Lab Samples: 60380536008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron, Ferrous	mg/L	<0.20	0.20	09/27/21 15:40	H6

LABORATORY CONTROL SAMPLE: 2987615

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Ferrous	mg/L	2	2.0	98	90-110	H6

SAMPLE DUPLICATE: 2987616

Parameter	Units	60380676002 Result	Dup Result	RPD	Max RPD	Qualifiers
Iron, Ferrous	mg/L	0.28	0.29	4	20	H6

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELL CC

Pace Project No.: 60380536

QC Batch: 744363 Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B Analysis Description: 4500H+B pH

Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60380536001, 60380536002, 60380536003, 60380536004, 60380536005, 60380536006, 60380536007

SAMPLE DUPLICATE: 2982291

Parameter	Units	60380288004 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	10.7	10.5	0	5	H6

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELL CC

Pace Project No.: 60380536

QC Batch: 745345

Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B

Analysis Description: 4500H+B pH

Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60380536008

SAMPLE DUPLICATE: 2985559

Parameter	Units	60380536008 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.6	7.6	1	5	H6

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELL CC

Pace Project No.: 60380536

QC Batch:	744818	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: 60380536001, 60380536002, 60380536003, 60380536004, 60380536005, 60380536006, 60380536007

METHOD BLANK: 2983681 Matrix: Water
Associated Lab Samples: 60380536001, 60380536002, 60380536003, 60380536004, 60380536005, 60380536006, 60380536007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<1.0	1.0	09/22/21 08:22	
Fluoride	mg/L	<0.20	0.20	09/22/21 08:22	
Sulfate	mg/L	<1.0	1.0	09/22/21 08:22	

METHOD BLANK: 2985966 Matrix: Water
Associated Lab Samples: 60380536001, 60380536002, 60380536003, 60380536004, 60380536005, 60380536006, 60380536007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<1.0	1.0	09/23/21 08:02	
Fluoride	mg/L	<0.20	0.20	09/23/21 08:02	
Sulfate	mg/L	<1.0	1.0	09/23/21 08:02	

METHOD BLANK: 2988391 Matrix: Water
Associated Lab Samples: 60380536001, 60380536002, 60380536003, 60380536004, 60380536005, 60380536006, 60380536007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<1.0	1.0	09/27/21 09:57	
Fluoride	mg/L	<0.20	0.20	09/27/21 09:57	
Sulfate	mg/L	<1.0	1.0	09/27/21 09:57	

LABORATORY CONTROL SAMPLE: 2983682

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	5.2	104	90-110	
Fluoride	mg/L	2.5	2.5	98	90-110	
Sulfate	mg/L	5	5.3	107	90-110	

LABORATORY CONTROL SAMPLE: 2985967

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	106	90-110	
Sulfate	mg/L	5	4.9	98	90-110	

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELL CC

Pace Project No.: 60380536

LABORATORY CONTROL SAMPLE: 2988392

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.7	95	90-110	
Fluoride	mg/L	2.5	2.6	103	90-110	
Sulfate	mg/L	5	4.8	97	90-110	

MATRIX SPIKE SAMPLE: 2983685

Parameter	Units	60380536003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	21.2	25	45.3	96	80-120	
Fluoride	mg/L	0.25	2.5	2.6	96	80-120	
Sulfate	mg/L	418	250	675	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2983692 2983693

Parameter	Units	60380084003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	22200	25000	25000	61800	54600	158	130	80-120	12	15	M1
Fluoride	mg/L	ND	1250	1250	1920	1700	154	136	80-120	12	15	M1
Sulfate	mg/L	3150	2500	2500	6150	5590	120	98	80-120	10	15	

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELL CC

Pace Project No.: 60380536

QC Batch: 745151	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: 60380536008

METHOD BLANK: 2984845 Matrix: Water

Associated Lab Samples: 60380536008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<1.0	1.0	09/23/21 08:20	
Fluoride	mg/L	<0.20	0.20	09/23/21 08:20	
Sulfate	mg/L	<1.0	1.0	09/23/21 08:20	

METHOD BLANK: 2987551 Matrix: Water

Associated Lab Samples: 60380536008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<1.0	1.0	09/24/21 08:25	
Fluoride	mg/L	<0.20	0.20	09/24/21 08:25	
Sulfate	mg/L	<1.0	1.0	09/24/21 08:25	

LABORATORY CONTROL SAMPLE: 2984846

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	5.4	107	90-110	
Fluoride	mg/L	2.5	2.7	107	90-110	
Sulfate	mg/L	5	5.5	109	90-110	

LABORATORY CONTROL SAMPLE: 2987552

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.7	94	90-110	
Sulfate	mg/L	5	4.9	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2984847 2984848

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		60380635004	Result	Spike Conc.	Spike Conc.								
Chloride	mg/L	5380	5000	5000	10300	10400	98	99	80-120	1	15		
Fluoride	mg/L	1.1	2.5	2.5	2.8	3.5	67	93	80-120	21	15	M1, R1	
Sulfate	mg/L	561	250	250	900	859	136	119	80-120	5	15	M1	

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELL CC

Pace Project No.: 60380536

MATRIX SPIKE SAMPLE:		2984849					
Parameter	Units	60380682005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	369	250	613	98	80-120	
Fluoride	mg/L	3.6	2.5	6.5	116	80-120	
Sulfate	mg/L	1330	1000	2270	94	80-120	

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELL CC

Pace Project No.: 60380536

QC Batch:	745411	Analysis Method:	SM 5310C
QC Batch Method:	SM 5310C	Analysis Description:	5310C Dissolved Organic Carbon
		Laboratory:	Pace Analytical Services - Kansas City

Associated Lab Samples: 60380536001, 60380536002, 60380536003, 60380536004, 60380536005, 60380536006, 60380536007

METHOD BLANK: 2985770 Matrix: Water
Associated Lab Samples: 60380536001, 60380536002, 60380536003, 60380536004, 60380536005, 60380536006, 60380536007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dissolved Organic Carbon	mg/L	<1.0	1.0	09/24/21 09:51	

LABORATORY CONTROL SAMPLE: 2985771

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	5	5.0	101	80-120	

MATRIX SPIKE SAMPLE: 2985768

Parameter	Units	60380763001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	2.5	5	7.9	107	80-120	

SAMPLE DUPLICATE: 2985769

Parameter	Units	60380763001 Result	Dup Result	RPD	Max RPD	Qualifiers
Dissolved Organic Carbon	mg/L	2.5	2.7	6	25	

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELL CC

Pace Project No.: 60380536

QC Batch: 745942	Analysis Method: SM 5310C
QC Batch Method: SM 5310C	Analysis Description: 5310C Dissolved Organic Carbon
	Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60380536008

METHOD BLANK: 2987999 Matrix: Water

Associated Lab Samples: 60380536008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dissolved Organic Carbon	mg/L	<1.0	1.0	09/28/21 11:12	

LABORATORY CONTROL SAMPLE: 2988000

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	5	5.5	111	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2988001 2988003

Parameter	Units	10579390001		2988003		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Dissolved Organic Carbon	mg/L	4.7	5	5	9.4	9.7	94	101	80-120	4	25

SAMPLE DUPLICATE: 2988002

Parameter	Units	10579390001 Result	Dup Result	RPD	Max RPD	Qualifiers
Dissolved Organic Carbon	mg/L	4.7	4.6	1	25	

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELL CC

Pace Project No.: 60380536

QC Batch:	745660	Analysis Method:	EPA 9060
QC Batch Method:	EPA 9060	Analysis Description:	9060 TOC
		Laboratory:	Pace Analytical Services - Kansas City

Associated Lab Samples: 60380536001, 60380536002, 60380536003, 60380536004, 60380536005, 60380536006, 60380536007

METHOD BLANK: 2987027 Matrix: Water
Associated Lab Samples: 60380536001, 60380536002, 60380536003, 60380536004, 60380536005, 60380536006, 60380536007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mean Total Organic Carbon	mg/L	<1.0	1.0	09/28/21 10:48	
Total Organic Carbon	mg/L	<1.0	1.0	09/28/21 10:48	
Total Organic Carbon	mg/L	<1.0	1.0	09/28/21 10:48	
Total Organic Carbon	mg/L	<1.0	1.0	09/28/21 10:48	
Total Organic Carbon	mg/L	<1.0	1.0	09/28/21 10:48	

LABORATORY CONTROL SAMPLE: 2987028

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mean Total Organic Carbon	mg/L	5	5.2	104	80-120	
Total Organic Carbon	mg/L	5	5.2	105	80-120	
Total Organic Carbon	mg/L	5	5.3	105	80-120	
Total Organic Carbon	mg/L	5	5.1	101	80-120	
Total Organic Carbon	mg/L	5	5.2	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2987029 2987030

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		60380536002 Result	Spike Conc.	Spike Conc.	Result						
Mean Total Organic Carbon	mg/L	5.4	5	5	10.7	10.8	106	108	80-120	1	25
Total Organic Carbon	mg/L	5.2	5	5	10.3	10.6	103	109	80-120	3	25
Total Organic Carbon	mg/L	5.5	5	5	10.8	10.9	107	109	80-120	1	25
Total Organic Carbon	mg/L	5.5	5	5	10.9	10.8	107	107	80-120	0	25
Total Organic Carbon	mg/L	5.5	5	5	10.7	10.9	105	108	80-120	1	25

SAMPLE DUPLICATE: 2987031

Parameter	Units	60380536003 Result	Dup Result	RPD	Max RPD	Qualifiers
Mean Total Organic Carbon	mg/L	2.7	2.7	1	25	
Total Organic Carbon	mg/L	2.6	2.6	2	25	
Total Organic Carbon	mg/L	2.7	2.7	1	25	
Total Organic Carbon	mg/L	2.7	2.7	1	25	
Total Organic Carbon	mg/L	2.7	2.8	0	25	

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELL CC

Pace Project No.: 60380536

QC Batch: 745661

Analysis Method: EPA 9060

QC Batch Method: EPA 9060

Analysis Description: 9060 TOC

Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60380536008

METHOD BLANK: 2987034

Matrix: Water

Associated Lab Samples: 60380536008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mean Total Organic Carbon	mg/L	<1.0	1.0	09/27/21 10:34	
Total Organic Carbon	mg/L	<1.0	1.0	09/27/21 10:34	
Total Organic Carbon	mg/L	<1.0	1.0	09/27/21 10:34	
Total Organic Carbon	mg/L	<1.0	1.0	09/27/21 10:34	
Total Organic Carbon	mg/L	<1.0	1.0	09/27/21 10:34	

LABORATORY CONTROL SAMPLE: 2987035

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mean Total Organic Carbon	mg/L	5	5.2	104	80-120	
Total Organic Carbon	mg/L	5	5.1	102	80-120	
Total Organic Carbon	mg/L	5	5.3	105	80-120	
Total Organic Carbon	mg/L	5	5.3	105	80-120	
Total Organic Carbon	mg/L	5	5.2	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2987036 2987037

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		60380676001 Result	Spike Conc.	Spike Conc.	Result						
Mean Total Organic Carbon	mg/L	2.1	5	5	6.4	6.2	88	83	80-120	4	25
Total Organic Carbon	mg/L	2.2	5	5	6.7	6.4	90	85	80-120	4	25
Total Organic Carbon	mg/L	2.3	5	5	6.7	6.5	90	85	80-120	3	25
Total Organic Carbon	mg/L	1.6	5	5	5.6	5.5	80	77	80-120	3	25 M1
Total Organic Carbon	mg/L	2.3	5	5	6.8	6.4	90	84	80-120	5	25

SAMPLE DUPLICATE: 2987038

Parameter	Units	60380536008 Result	Dup Result	RPD	Max RPD	Qualifiers
Mean Total Organic Carbon	mg/L	2.3	2.2	2	25	
Total Organic Carbon	mg/L	2.1	2.0	2	25	
Total Organic Carbon	mg/L	2.3	2.3	1	25	
Total Organic Carbon	mg/L	2.4	2.3	2	25	
Total Organic Carbon	mg/L	2.3	2.3	1	25	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: LEC PERIMETER ASH POND WELL CC

Pace Project No.: 60380536

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: MW-C-091521 Lab ID: 60380536001 Collected: 09/15/21 11:20 Received: 09/17/21 14:10 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.142 ± 0.555 (1.06) C:NA T:67%	pCi/L	10/13/21 15:30	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	2.76 ± 0.776 (0.909) C:74% T:78%	pCi/L	10/07/21 11:06	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	2.90 ± 1.33 (1.97)	pCi/L	10/14/21 15:24	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: LEC PERIMETER ASH POND WELL CC

Pace Project No.: 60380536

Sample: MW-D-091521 **Lab ID: 60380536002** Collected: 09/15/21 13:15 Received: 09/17/21 14:10 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	0.0559 ± 0.329 (0.672) C:NA T:92%	pCi/L	10/13/21 15:30	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.941 ± 0.446 (0.762) C:72% T:84%	pCi/L	10/07/21 11:06	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.997 ± 0.775 (1.43)	pCi/L	10/14/21 15:25	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: LEC PERIMETER ASH POND WELL CC

Pace Project No.: 60380536

Sample: MW-G-091521 **Lab ID: 60380536003** Collected: 09/15/21 14:55 Received: 09/17/21 14:10 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 ± 0.343 (0.712) C:NA T:94%	pCi/L	10/13/21 15:30	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	1.25 ± 0.472 (0.718) C:72% T:92%	pCi/L	10/07/21 11:06	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.25 ± 0.815 (1.43)	pCi/L	10/14/21 15:25	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: LEC PERIMETER ASH POND WELL CC

Pace Project No.: 60380536

Sample: MW-M-091521 **Lab ID: 60380536004** Collected: 09/15/21 10:05 Received: 09/17/21 14:10 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	0.101 ± 0.395 (0.757) C:NA T:95%	pCi/L	10/13/21 15:30	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	1.13 ± 0.534 (0.940) C:72% T:84%	pCi/L	10/07/21 11:06	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.23 ± 0.929 (1.70)	pCi/L	10/14/21 15:25	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: LEC PERIMETER ASH POND WELL CC

Pace Project No.: 60380536

Sample: MW-O-091521 **Lab ID: 60380536005** Collected: 09/15/21 16:35 Received: 09/17/21 14:10 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	-0.0593 ± 0.479 (0.988) C:NA T:92%	pCi/L	10/13/21 15:30	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	1.62 ± 0.556 (0.807) C:74% T:90%	pCi/L	10/07/21 11:06	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.62 ± 1.04 (1.80)	pCi/L	10/14/21 15:25	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: LEC PERIMETER ASH POND WELL CC

Pace Project No.: 60380536

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: MW-P-091521 Lab ID: 60380536006 Collected: 09/15/21 14:10 Received: 09/17/21 14:10 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.503 ± 0.481 (0.732) C:NA T:91%	pCi/L	10/13/21 15:30	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	1.98 ± 0.609 (0.791) C:74% T:85%	pCi/L	10/07/21 11:07	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	2.48 ± 1.09 (1.52)	pCi/L	10/14/21 15:25	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: LEC PERIMETER ASH POND WELL CC

Pace Project No.: 60380536

Sample: MW-103-091521 **Lab ID: 60380536007** Collected: 09/15/21 11:40 Received: 09/17/21 14:10 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	0.469 ± 0.372 (0.483) C:NA T:96%	pCi/L	10/13/21 15:30	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	1.03 ± 0.464 (0.785) C:71% T:91%	pCi/L	10/07/21 11:07	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.50 ± 0.836 (1.27)	pCi/L	10/14/21 15:25	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: LEC PERIMETER ASH POND WELL CC

Pace Project No.: 60380536

Sample: MW-N-091621 **Lab ID: 60380536008** Collected: 09/16/21 14:25 Received: 09/17/21 13:10 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 ± 0.359 (0.777) C:NA T:91%	pCi/L	10/13/21 15:47	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	1.80 ± 0.701 (1.10) C:57% T:86%	pCi/L	10/07/21 14:22	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.80 ± 1.06 (1.88)	pCi/L	10/14/21 15:25	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: LEC PERIMETER ASH POND WELL CC

Pace Project No.: 60380536

QC Batch:	465835	Analysis Method:	EPA 903.1
QC Batch Method:	EPA 903.1	Analysis Description:	903.1 Radium-226
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 60380536001, 60380536002, 60380536003, 60380536004, 60380536005, 60380536006, 60380536007, 60380536008

METHOD BLANK: 2249339 Matrix: Water

Associated Lab Samples: 60380536001, 60380536002, 60380536003, 60380536004, 60380536005, 60380536006, 60380536007, 60380536008

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.209 ± 0.338 (0.589) C:NA T:90%	pCi/L	10/13/21 15:30	

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: LEC PERIMETER ASH POND WELL CC

Pace Project No.: 60380536

QC Batch:	465836	Analysis Method:	EPA 904.0
QC Batch Method:	EPA 904.0	Analysis Description:	904.0 Radium 228
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 60380536001, 60380536002, 60380536003, 60380536004, 60380536005, 60380536006, 60380536007, 60380536008

METHOD BLANK: 2249340 Matrix: Water

Associated Lab Samples: 60380536001, 60380536002, 60380536003, 60380536004, 60380536005, 60380536006, 60380536007, 60380536008

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	-0.231 ± 0.336 (0.835) C:72% T:78%	pCi/L	10/07/21 11:07	

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: LEC PERIMETER ASH POND WELL CC

Pace Project No.: 60380536

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

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

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.

R1 RPD value was outside control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: LEC PERIMETER ASH POND WELL CC

Pace Project No.: 60380536

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60380536001	MW-C-091521	EPA 200.7	745486	EPA 200.7	745595
60380536002	MW-D-091521	EPA 200.7	745486	EPA 200.7	745595
60380536003	MW-G-091521	EPA 200.7	745486	EPA 200.7	745595
60380536004	MW-M-091521	EPA 200.7	745486	EPA 200.7	745595
60380536005	MW-O-091521	EPA 200.7	745486	EPA 200.7	745595
60380536006	MW-P-091521	EPA 200.7	745486	EPA 200.7	745595
60380536007	MW-103-091521	EPA 200.7	745486	EPA 200.7	745595
60380536008	MW-N-091621	EPA 200.7	745494	EPA 200.7	745593
60380536001	MW-C-091521	EPA 200.7	745520	EPA 200.7	745584
60380536002	MW-D-091521	EPA 200.7	745520	EPA 200.7	745584
60380536003	MW-G-091521	EPA 200.7	745520	EPA 200.7	745584
60380536004	MW-M-091521	EPA 200.7	745520	EPA 200.7	745584
60380536005	MW-O-091521	EPA 200.7	745520	EPA 200.7	745584
60380536006	MW-P-091521	EPA 200.7	745520	EPA 200.7	745584
60380536007	MW-103-091521	EPA 200.7	745520	EPA 200.7	745584
60380536008	MW-N-091621	EPA 200.7	745804	EPA 200.7	745957
60380536001	MW-C-091521	EPA 3010	745480	EPA 6010	745596
60380536002	MW-D-091521	EPA 3010	745480	EPA 6010	745596
60380536003	MW-G-091521	EPA 3010	745480	EPA 6010	745596
60380536004	MW-M-091521	EPA 3010	745480	EPA 6010	745596
60380536005	MW-O-091521	EPA 3010	745480	EPA 6010	745596
60380536006	MW-P-091521	EPA 3010	745480	EPA 6010	745596
60380536007	MW-103-091521	EPA 3010	745480	EPA 6010	745596
60380536008	MW-N-091621	EPA 3010	745481	EPA 6010	745594
60380536001	MW-C-091521	EPA 200.8	745483	EPA 200.8	745597
60380536002	MW-D-091521	EPA 200.8	745483	EPA 200.8	745597
60380536003	MW-G-091521	EPA 200.8	745483	EPA 200.8	745597
60380536004	MW-M-091521	EPA 200.8	745483	EPA 200.8	745597
60380536005	MW-O-091521	EPA 200.8	745483	EPA 200.8	745597
60380536006	MW-P-091521	EPA 200.8	745483	EPA 200.8	745597
60380536007	MW-103-091521	EPA 200.8	745483	EPA 200.8	745597
60380536008	MW-N-091621	EPA 200.8	745484	EPA 200.8	745598
60380536001	MW-C-091521	EPA 903.1	465835		
60380536002	MW-D-091521	EPA 903.1	465835		
60380536003	MW-G-091521	EPA 903.1	465835		
60380536004	MW-M-091521	EPA 903.1	465835		
60380536005	MW-O-091521	EPA 903.1	465835		
60380536006	MW-P-091521	EPA 903.1	465835		
60380536007	MW-103-091521	EPA 903.1	465835		
60380536008	MW-N-091621	EPA 903.1	465835		
60380536001	MW-C-091521	EPA 904.0	465836		
60380536002	MW-D-091521	EPA 904.0	465836		
60380536003	MW-G-091521	EPA 904.0	465836		
60380536004	MW-M-091521	EPA 904.0	465836		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: LEC PERIMETER ASH POND WELL CC

Pace Project No.: 60380536

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60380536005	MW-O-091521	EPA 904.0	465836		
60380536006	MW-P-091521	EPA 904.0	465836		
60380536007	MW-103-091521	EPA 904.0	465836		
60380536008	MW-N-091621	EPA 904.0	465836		
60380536001	MW-C-091521	Total Radium Calculation	468226		
60380536002	MW-D-091521	Total Radium Calculation	468229		
60380536003	MW-G-091521	Total Radium Calculation	468229		
60380536004	MW-M-091521	Total Radium Calculation	468229		
60380536005	MW-O-091521	Total Radium Calculation	468229		
60380536006	MW-P-091521	Total Radium Calculation	468229		
60380536007	MW-103-091521	Total Radium Calculation	468229		
60380536008	MW-N-091621	Total Radium Calculation	468229		
60380536001	MW-C-091521	SM 2320B	745180		
60380536002	MW-D-091521	SM 2320B	745375		
60380536003	MW-G-091521	SM 2320B	745180		
60380536004	MW-M-091521	SM 2320B	745375		
60380536005	MW-O-091521	SM 2320B	745375		
60380536006	MW-P-091521	SM 2320B	745180		
60380536007	MW-103-091521	SM 2320B	745375		
60380536008	MW-N-091621	SM 2320B	745180		
60380536001	MW-C-091521	SM 2540C	744751		
60380536002	MW-D-091521	SM 2540C	744751		
60380536003	MW-G-091521	SM 2540C	744751		
60380536004	MW-M-091521	SM 2540C	744751		
60380536005	MW-O-091521	SM 2540C	744751		
60380536006	MW-P-091521	SM 2540C	744751		
60380536007	MW-103-091521	SM 2540C	744751		
60380536008	MW-N-091621	SM 2540C	744751		
60380536001	MW-C-091521	SM 3500-Fe B#4	744613		
60380536002	MW-D-091521	SM 3500-Fe B#4	744613		
60380536003	MW-G-091521	SM 3500-Fe B#4	744613		
60380536004	MW-M-091521	SM 3500-Fe B#4	744613		
60380536005	MW-O-091521	SM 3500-Fe B#4	744613		
60380536006	MW-P-091521	SM 3500-Fe B#4	744613		
60380536007	MW-103-091521	SM 3500-Fe B#4	744613		
60380536008	MW-N-091621	SM 3500-Fe B#4	745803		
60380536001	MW-C-091521	SM 4500-H+B	744363		
60380536002	MW-D-091521	SM 4500-H+B	744363		
60380536003	MW-G-091521	SM 4500-H+B	744363		
60380536004	MW-M-091521	SM 4500-H+B	744363		
60380536005	MW-O-091521	SM 4500-H+B	744363		
60380536006	MW-P-091521	SM 4500-H+B	744363		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: LEC PERIMETER ASH POND WELL CC

Pace Project No.: 60380536

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60380536007	MW-103-091521	SM 4500-H+B	744363		
60380536008	MW-N-091621	SM 4500-H+B	745345		
60380536001	MW-C-091521	EPA 300.0	744818		
60380536002	MW-D-091521	EPA 300.0	744818		
60380536003	MW-G-091521	EPA 300.0	744818		
60380536004	MW-M-091521	EPA 300.0	744818		
60380536005	MW-O-091521	EPA 300.0	744818		
60380536006	MW-P-091521	EPA 300.0	744818		
60380536007	MW-103-091521	EPA 300.0	744818		
60380536008	MW-N-091621	EPA 300.0	745151		
60380536001	MW-C-091521	SM 5310C	745411		
60380536002	MW-D-091521	SM 5310C	745411		
60380536003	MW-G-091521	SM 5310C	745411		
60380536004	MW-M-091521	SM 5310C	745411		
60380536005	MW-O-091521	SM 5310C	745411		
60380536006	MW-P-091521	SM 5310C	745411		
60380536007	MW-103-091521	SM 5310C	745411		
60380536008	MW-N-091621	SM 5310C	745942		
60380536001	MW-C-091521	EPA 9060	745660		
60380536002	MW-D-091521	EPA 9060	745660		
60380536003	MW-G-091521	EPA 9060	745660		
60380536004	MW-M-091521	EPA 9060	745660		
60380536005	MW-O-091521	EPA 9060	745660		
60380536006	MW-P-091521	EPA 9060	745660		
60380536007	MW-103-091521	EPA 9060	745660		
60380536008	MW-N-091621	EPA 9060	745661		

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Sample Condition Upon Receipt

WO# : 60380536



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: T-296 Type of Ice: Wet Blue None 1.8 1.2 0C
1.2 1.5 0.9 1.1

Cooler Temperature (°C): As-read 1.9 Corr. Factor -0.3 Corrected 1.6

Date and initials of person examining contents:
9-17-21KD

Temperature should be above freezing to 6°C

Chain of Custody present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Chain of Custody relinquished:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Samples arrived within holding time:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Short Hold Time analyses (<72hr):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Rush Turn Around Time requested:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Sufficient volume:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Correct containers used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace containers used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers intact:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Preserved 5035A / TX1005/1006 soils frozen in 48hrs?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Red volume received for dissolved tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Labels match COC: Date / time / ID / analyses	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Do they contain multiple phases? Matrix:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
requiring pH preservation in compliance? (HCl<2; NaOH>9 Sulfide, NaOH>10 Cyanide)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	List sample IDs, volumes, lot #'s of preservative and the date/time added.
(A, Micro, O&G, KS TPH, OK-DRO) LOT#		
Sample checks:		
turns dark? (Record only)	<input type="checkbox"/> Yes <input type="checkbox"/> No	
test strip turns blue/purple? (Preserve)	<input type="checkbox"/> Yes <input type="checkbox"/> No	
	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
(>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Field Area: State:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
5035A / TX1005 vials in the field?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	

Copy COC to Client? Y / N Field Data Required? Y / N

Date/Time: _____

Date: _____

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information: Company: EVERGY KANSAS CENTRAL, INC. Address: Lawrence Energy Center (LEC) 818 Kansas Ave, Topeka, KS 66612 Email To: melissa.michels@evergy.com Phone: 785-575-8113 Fax: _____ Requested Due Date/TAT: _____		Section B Required Project Information: Report To: Melissa Michels, Samantha Kaney, Danielle Ober Copy To: Jared Morrison, Jake Humphrey, Laura Hines Andrew Hare, Tabitha Hylton Purchase Order No.: _____ Project Name: LEC Perimeter Ash Pond Wells CCR Project Number: _____		Section C Invoice Information: Attention: Accounts Payable Company Name: EVERGY KANSAS CENTRAL, INC Address: SAME AS A Pace Quote Reference: _____ Pace Project Manager: Hank Kapka, 913-563-1404 Pace Profile #: 9655, 1 Site Location: _____ STATE: KS	
Section D Required Client Information Valid Matrix Codes DRINKING WATER DW WATER WT WASTE WATER WW PRODUCT P SOIL/SOLID SL OIL OL WIPE WP AIR AR OTHER OT TISSUE TS SAMPLE ID (A-Z, 0-9 /, -) Sample IDs MUST BE UNIQUE		Required Analysis Filtered (Y/N)		REGULATORY AGENCY <input type="checkbox"/> NPDES <input checked="" type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input type="checkbox"/> UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER _____	

ITEM #	MATRIX CODE	SAMPLE TYPE (G=GRAB C-COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	PRESERVATIVES	Requested Analysis Filtered (Y/N)	Pace Project No./ Lab I.D.
			COMPOSITE START	COMPOSITE END/GRAB					
1	MW-C-091521	WT G	09/15/21	11:20	-	12	H ₂ SO ₄ HNO ₃ HCl NaOH Na ₂ S ₂ O ₃ Methanol Other	X	60380536
2	MW-D-091521	WT G	09/15/21	13:15	-	12	H ₂ SO ₄ HNO ₃ HCl NaOH Na ₂ S ₂ O ₃ Methanol Other	X	
3	MW-G-091521	WT G	09/15/21	14:55	-	12	H ₂ SO ₄ HNO ₃ HCl NaOH Na ₂ S ₂ O ₃ Methanol Other	X	
4	MW-M-091521	WT G	09/15/21	10:05	-	12	H ₂ SO ₄ HNO ₃ HCl NaOH Na ₂ S ₂ O ₃ Methanol Other	X	
5	MW-O-091521	WT G	09/15/21	16:35	-	12	H ₂ SO ₄ HNO ₃ HCl NaOH Na ₂ S ₂ O ₃ Methanol Other	X	
6	MW-P-091521	WT G	09/15/21	14:10	-	12	H ₂ SO ₄ HNO ₃ HCl NaOH Na ₂ S ₂ O ₃ Methanol Other	X	
7	MW-103-091521	WT G	09/15/21	11:40	-	12	H ₂ SO ₄ HNO ₃ HCl NaOH Na ₂ S ₂ O ₃ Methanol Other	X	
8									
9									
10									
11									
12									

ADDITIONAL COMMENTS 2007 Total Metals*: Ba, B, Ca, Fe, Mg, Mn, K, Na (8 metals) 2007 Dissolved Metals**: Fe, As, Li, Mo, Mn (5 metals, FIELD FILTERED) 2008 Total Metals***: As, Co, Mo (3 metals) 6010 Total Metals****: Li (1 metal)	RELINQUISHED BY / AFFILIATION Britta Coleman/SCS Engineers	DATE 9/17/21	ACCEPTED BY / AFFILIATION <i>Britta Coleman / pace</i>	DATE 9/17/21	TIME 10:10	TEMP IN °C 1.3 1.4 1.6 1.2 1.1	SAMPLE CONDITIONS Received on Ice (Y/N) Custody Sealed Cooler (Y/N) Samples Intact (Y/N)
SAMPLER NAME AND SIGNATURE PRINT Name of SAMPLER: Britta Coleman SIGNATURE of SAMPLER: <i>Britta Coleman</i>			DATE SIGNED (MM/DD/YYYY): 9/17/21				

*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



Samples Pre-Logged into eCOC.

State Of Origin: KS

Cert. Needed: Yes No



Workorder: 60380536 Workorder Name: LEC PERIMETER ASH POND WELL COOWNER Received Date: 9/17/2021 Results Requested By: 9/28/2021

Report To: Subcontract To

Hank Kapka
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

WO#: 30442531



30442531

Preserved Containers

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	HNO3	Preserved Containers	Comments
1	MW-C-091521	PS	9/15/2021 11:20	60380536001	Water	2		
2	MW-D-091521	PS	9/15/2021 13:15	60380536002	Water	2		
3	MW-G-091521	PS	9/15/2021 14:55	60380536003	Water	2		
4	MW-M-091521	PS	9/15/2021 10:05	60380536004	Water	2		
5	MW-O-091521	PS	9/15/2021 16:35	60380536005	Water	2		
6	MW-P-091521	PS	9/15/2021 14:10	60380536006	Water	2		
7	MW-103-091521	PS	9/15/2021 14:40	60380536007	Water	2		

LAB USE ONLY

Transfers Released By: *Danielle Pace* Date/Time: 9/22/21 10:00 AM Received By: *[Signature]* Date/Time: 9/23/21 8:00 AM

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.

Pittsburgh Lab Sample Condition Upon Receipt



Client Name: Face KS

Project # _____

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Tracking #: 50020054 966419701

Label <u>SE</u>
LIMS Login <u>SE</u>

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	N/A	pH paper Lot#	Date and Initials of person examining contents:
				10100411	SE 9/27/21
Chain of Custody Present:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1.	
Chain of Custody Filled Out:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2.	
Chain of Custody Relinquished:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3.	
Sampler Name & Signature on COC:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4.	
Sample Labels match COC: -Includes date/time/ID Matrix: <u>WT</u>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	5. additional sample received 603805310-008 (2BP1V) 9/16/21 14:25	
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6.	
Short Hold Time Analysis (<72hr remaining):	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	7.	
Rush Turn Around Time Requested:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	8.	
Sufficient Volume:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9.	
Correct Containers Used: -Pace Containers Used:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10.	
Containers Intact:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	11.	
Orthophosphate field filtered	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	12.	
Hex Cr Aqueous sample field filtered	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	13.	
Organic Samples checked for dechlorination:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	14.	
Filtered volume received for Dissolved tests	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	15.	
All containers have been checked for preservation. exceptions: VOA, coliform, TOC, O&G, Phenolics, Radon, Non-aqueous matrix	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	16.	
All containers meet method preservation requirements.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Initial when completed: <u>SE</u>	Date/time of preservation
				Lot # of added preservative	
Headspace in VOA Vials (>6mm):	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	17.	
Trip Blank Present:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	18.	
Trip Blank Custody Seals Present	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
Rad Samples Screened < 0.5 mrem/hr	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Initial when completed: <u>SE</u>	Date: <u>9/27/21</u> Survey Meter SN: <u>15103</u>

Client Notification/ Resolution:
 Person Contacted: _____ Date/Time: _____ Contacted By: _____
 Comments/ Resolution: _____

A check in this box indicates that additional information has been stored in ereports.

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)
 *PM review is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.

MO# : 30442531
 PM: GAF Due Date: 09/28/21
 CLIENT: PACE_60_LEKS

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226
Analyst: MK1
Date: 10/4/2021
Batch ID: 62880
Matrix: DW

Method Blank Assessment	
MB Sample ID	2249339
MB concentration:	0.209
MB Counting Uncertainty:	0.337
MB MDC:	0.589
MB Numerical Performance Indicator:	1.21
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment		LCS (Y or N)?	Y
Count Date:	10/13/2021	LCS62880	10/13/2021
Spike I.D.:	20-032		20-032
Spike Concentration (pCi/mL):	32.169		32.169
Volume Used (mL):	0.10		0.10
Aliquot Volume (L, g, F):	0.652		0.654
Target Conc. (pCi/L, g, F):	4.936		4.916
Uncertainty (Calculated):	0.232		0.231
Result (pCi/L, g, F):	5.086		6.100
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.899		1.037
Numerical Performance Indicator:	0.32		2.19
Percent Recovery:	103.03%		124.09%
Status vs Numerical Indicator:	N/A		N/A
Status vs Recovery:	Pass		Pass
Upper % Recovery Limits:	135%		135%
Lower % Recovery Limits:	73%		73%

Duplicate Sample Assessment	
Sample I.D.:	LCS62880
Duplicate Sample I.D.:	LCS62880
Sample Result (pCi/L, g, F):	5.086
Duplicate Result (pCi/L, g, F):	0.899
Sample Result Counting Uncertainty (pCi/L, g, F):	6.100
Duplicate Result Counting Uncertainty (pCi/L, g, F):	1.037
Are sample and/or duplicate results below RL?	NO
Duplicate Numerical Performance Indicator:	-1.449
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	18.55%
Duplicate Status vs Numerical Indicator:	N/A
Duplicate Status vs RPD:	Pass
% RPD Limit:	32%

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

Comments:

10/14/21

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
<p>Sample Collection Date: Sample I.D. Sample MS I.D. Sample MSD I.D. Spike I.D.:</p> <p>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):</p> <p>Sample Result: Sample Result Counting Uncertainty (pCi/L, g, F): Sample Matrix Spike Result: Sample Matrix Spike Duplicate 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:</p>		

Matrix Spike/Matrix Spike Duplicate Sample Assessment
<p>Sample I.D. Sample MS I.D. Sample MSD I.D.</p> <p>Sample Matrix Spike Result: Matrix Spike Result Counting Uncertainty (pCi/L, g, F): Sample Matrix Spike Duplicate 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:</p>

SLC 10/13/2021

Quality Control Sample Performance Assessment



Analyst **Must Manually Enter All Fields Highlighted in Yellow.**

Test: Ra-228
Analyst: VAL
Date: 10/5/2021
Worklist: 62881
Matrix: WT

Method Blank Assessment	
MB Sample ID	2249340
MB concentration:	-0.231
M/B 2 Sigma CSU:	0.336
MB MDC:	0.835
MB Numerical Performance Indicator:	-1.34
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	
LCS62881	LCS62881
Count Date:	10/7/2021
Spike I.D.:	21-029
Decay Corrected Spike Concentration (pCi/mL):	37.936
Volume Used (mL):	0.10
Aliquot Volume (L, g, F):	0.814
Target Conc. (pCi/L, g, F):	4.594
Uncertainty (Calculated):	0.225
Result (pCi/L, g, F):	4.739
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	1.085
Numerical Performance Indicator:	0.26
Percent Recovery:	103.16%
Status vs Numerical Indicator:	N/A
Upper % Recovery Limits:	135%
Lower % Recovery Limits:	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.: Duplicate Sample I.D.: Sample Result (pCi/L, g, F): Duplicate Sample Result (pCi/L, g, F): Sample Result 2 Sigma CSU (pCi/L, g, F): Duplicate Sample Result 2 Sigma CSU (pCi/L, g, F): Are sample and/or duplicate results below RL? Duplicate Numerical Performance Indicator: Duplicate Percent Recoveries (Duplicate RPD): Duplicate Status vs Numerical Indicator: Duplicate Status vs RPD: % RPD Limit:	LCS62881 LCS62881 4.739 1.085 5.121 1.155 NO -0.473 6.25% Pass Pass 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: Duplicate Numerical Performance Indicator RPD: (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:

[Handwritten signature]

[Handwritten signature]

February 22, 2022

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

RE: Project: LEC PERIMETER ASH POND WELL CC
Pace Project No.: 60380676

Dear Jake Humphrey:

Enclosed are the analytical results for sample(s) received by the laboratory on September 17, 2021. 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

REV-2, 11/30/21: Total Radium added.

Greensburg, PA- Revision 1 - This report replaces the November, 10, 2021 report. This project was revised on November, 29, 2021 to add Total Radium per client's request.

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

Sincerely,



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

Enclosures

cc: Laura Hines, Eversys, Inc.
Tabitha Hylton, Eversys Kansas Central, Inc. Lawrence
Energy Center
Samantha Kaney, Haley & Aldrich
Melissa Michels, Eversys, Inc.
Jared Morrison, Eversys, Inc.

Danielle Oberbroeckling, Haley & Aldrich
Danielle Oberbroeckling, Haley Aldrich
Zach Phillips, Eversys, Inc.
Melanie Satanek, Haley & Aldrich, Inc.



REPORT OF LABORATORY ANALYSIS

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

CERTIFICATIONS

Project: LEC PERIMETER ASH POND WELL CC

Pace Project No.: 60380676

Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601

ANAB DOD-ELAP Rad Accreditation #: L2417

Alabama Certification #: 41590

Arizona Certification #: AZ0734

Arkansas Certification

California Certification #: 04222CA

Colorado Certification #: PA01547

Connecticut Certification #: PH-0694

Delaware Certification

EPA Region 4 DW Rad

Florida/TNI Certification #: E87683

Georgia Certification #: C040

Florida: Cert E871149 SEKS WET

Guam Certification

Hawaii Certification

Idaho Certification

Illinois Certification

Indiana Certification

Iowa Certification #: 391

Kansas/TNI Certification #: E-10358

Kentucky Certification #: KY90133

KY WW Permit #: KY0098221

KY WW Permit #: KY0000221

Louisiana DHH/TNI Certification #: LA180012

Louisiana DEQ/TNI Certification #: 4086

Maine Certification #: 2017020

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 #: PA014572018-1

New Hampshire/TNI Certification #: 297617

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 #: PA200002-010

Pennsylvania/TNI Certification #: 65-00282

Puerto Rico Certification #: PA01457

Rhode Island Certification #: 65-00282

South Dakota Certification

Tennessee Certification #: 02867

Texas/TNI Certification #: T104704188-17-3

Utah/TNI Certification #: PA014572017-9

USDA Soil Permit #: P330-17-00091

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

Wyoming Certification #: 8TMS-L

Pace Analytical Services Kansas

9608 Loiret Boulevard, Lenexa, KS 66219

Missouri Inorganic Drinking Water Certification #: 10090

Arkansas Drinking Water

Arkansas Certification #: 20-020-0

Arkansas Drinking Water

Illinois Certification #: 2000302021-3

Iowa Certification #: 118

Kansas/NELAP Certification #: E-10116

Louisiana Certification #: 03055

Nevada Certification #: KS000212020-2

Oklahoma Certification #: 9205/9935

Florida: Cert E871149 SEKS WET

Texas Certification #: T104704407-19-12

Utah Certification #: KS000212019-9

Illinois Certification #: 004592

Kansas Field Laboratory Accreditation: # E-92587

Missouri SEKS Micro Certification: 10070

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: LEC PERIMETER ASH POND WELL CC
Pace Project No.: 60380676

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60380676001	MW-104-091521	Water	09/15/21 16:00	09/17/21 14:10
60380676002	LEC-CMA-DUP01-091521	Water	09/15/21 11:40	09/17/21 14:10

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: LEC PERIMETER ASH POND WELL CC

Pace Project No.: 60380676

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60380676001	MW-104-091521	EPA 200.7	JLH	9	PASI-K
		EPA 200.7	JLH	5	PASI-K
		EPA 6010	JLH	1	PASI-K
		EPA 200.8	JGP	3	PASI-K
		EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2320B	KB	2	PASI-K
		SM 2540C	BLA	1	PASI-K
		SM 3500-Fe B#4	AG1	1	PASI-K
		SM 4500-H+B	KB	1	PASI-K
		EPA 300.0	ALH, JDS	3	PASI-K
		SM 5310C	HM1	1	PASI-K
		EPA 9060	HM1	5	PASI-K
		60380676002	LEC-CMA-DUP01-091521	EPA 200.7	JLH
EPA 200.7	JLH			5	PASI-K
EPA 6010	JLH			1	PASI-K
EPA 200.8	JGP			3	PASI-K
EPA 903.1	MK1			1	PASI-PA
EPA 904.0	VAL			1	PASI-PA
Total Radium Calculation	JAL			1	PASI-PA
SM 2320B	KB			2	PASI-K
SM 2540C	BLA			1	PASI-K
SM 3500-Fe B#4	AG1			1	PASI-K
SM 4500-H+B	KB			1	PASI-K
EPA 300.0	ALH, JDS			3	PASI-K
SM 5310C	HM1			1	PASI-K
EPA 9060	HM1			5	PASI-K

PASI-K = Pace Analytical Services - Kansas City

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC PERIMETER ASH POND WELL CC

Pace Project No.: 60380676

Method: EPA 200.7

Description: 200.7 Metals, Total

Client: Evergy Kansas Central, Inc.

Date: February 22, 2022

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: 745494

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60380676002,60380682006

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

- MS (Lab ID: 2986121)
 - Calcium
 - Magnesium
 - Sodium
- MSD (Lab ID: 2986120)
 - Boron
 - Calcium
 - Magnesium
 - Sodium

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC PERIMETER ASH POND WELL CC

Pace Project No.: 60380676

Method: EPA 200.7

Description: 200.7 Metals, Dissolved

Client: Evergy Kansas Central, Inc.

Date: February 22, 2022

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: 745520

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60380536001,60380763002

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

- MS (Lab ID: 2986188)
- Manganese, Dissolved

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC PERIMETER ASH POND WELL CC

Pace Project No.: 60380676

Method: EPA 6010

Description: 6010 MET ICP

Client: Evergy Kansas Central, Inc.

Date: February 22, 2022

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:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC PERIMETER ASH POND WELL CC

Pace Project No.: 60380676

Method: EPA 200.8

Description: 200.8 MET ICPMS

Client: Evergy Kansas Central, Inc.

Date: February 22, 2022

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.

Additional Comments:

Analyte Comments:

QC Batch: 745484

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

- LEC-CMA-DUP01-091521 (Lab ID: 60380676002)
 - Cobalt, Total Recoverable

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC PERIMETER ASH POND WELL CC

Pace Project No.: 60380676

Method: EPA 903.1

Description: 903.1 Radium 226

Client: Evergy Kansas Central, Inc.

Date: February 22, 2022

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:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC PERIMETER ASH POND WELL CC

Pace Project No.: 60380676

Method: EPA 904.0

Description: 904.0 Radium 228

Client: Evergy Kansas Central, Inc.

Date: February 22, 2022

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: LEC PERIMETER ASH POND WELL CC

Pace Project No.: 60380676

Method: Total Radium Calculation

Description: Total Radium 228+226

Client: Evergy Kansas Central, Inc.

Date: February 22, 2022

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:

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PROJECT NARRATIVE

Project: LEC PERIMETER ASH POND WELL CC

Pace Project No.: 60380676

Method: SM 2320B

Description: 2320B Alkalinity

Client: Evergy Kansas Central, Inc.

Date: February 22, 2022

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: LEC PERIMETER ASH POND WELL CC

Pace Project No.: 60380676

Method: SM 2540C

Description: 2540C Total Dissolved Solids

Client: Evergy Kansas Central, Inc.

Date: February 22, 2022

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: LEC PERIMETER ASH POND WELL CC

Pace Project No.: 60380676

Method: SM 3500-Fe B#4

Description: Iron, Ferrous

Client: Evergy Kansas Central, Inc.

Date: February 22, 2022

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.

- LEC-CMA-DUP01-091521 (Lab ID: 60380676002)
- MW-104-091521 (Lab ID: 60380676001)

Method Blank:

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

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits 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: LEC PERIMETER ASH POND WELL CC

Pace Project No.: 60380676

Method: SM 4500-H+B

Description: 4500H+ pH, Electrometric

Client: Evergy Kansas Central, Inc.

Date: February 22, 2022

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.

H6: Analysis initiated outside of the 15 minute EPA required holding time.

- LEC-CMA-DUP01-091521 (Lab ID: 60380676002)
- MW-104-091521 (Lab ID: 60380676001)

Method Blank:

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

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits 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:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC PERIMETER ASH POND WELL CC

Pace Project No.: 60380676

Method: EPA 300.0

Description: 300.0 IC Anions 28 Days

Client: Evergy Kansas Central, Inc.

Date: February 22, 2022

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: 745151

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60380635004,60380682005

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

- MS (Lab ID: 2984847)
 - Fluoride
 - Sulfate

R1: RPD value was outside control limits.

- MSD (Lab ID: 2984848)
 - Fluoride

Additional Comments:

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PROJECT NARRATIVE

Project: LEC PERIMETER ASH POND WELL CC

Pace Project No.: 60380676

Method: SM 5310C

Description: 5310C Diss. Organic Carbon LF

Client: Evergy Kansas Central, Inc.

Date: February 22, 2022

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:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC PERIMETER ASH POND WELL CC

Pace Project No.: 60380676

Method: EPA 9060

Description: Total Organic Carbon

Client: Evergy Kansas Central, Inc.

Date: February 22, 2022

General Information:

2 samples were analyzed for EPA 9060 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: 745661

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60380676001

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

- MSD (Lab ID: 2987037)
- Total Organic Carbon

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.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LEC PERIMETER ASH POND WELL CC

Pace Project No.: 60380676

Sample: MW-104-091521	Lab ID: 60380676001	Collected: 09/15/21 16:00	Received: 09/17/21 14:10	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	0.65	mg/L	0.0050	1	09/24/21 16:00	09/27/21 22:54	7440-39-3	
Boron, Total Recoverable	2.3	mg/L	0.10	1	09/24/21 16:00	09/27/21 22:54	7440-42-8	
Calcium, Total Recoverable	361	mg/L	0.20	1	09/24/21 16:00	09/27/21 22:54	7440-70-2	
Iron, Total Recoverable	59.4	mg/L	0.050	1	09/24/21 16:00	09/27/21 22:54	7439-89-6	
Magnesium, Total Recoverable	44.3	mg/L	0.050	1	09/24/21 16:00	09/27/21 22:54	7439-95-4	
Manganese, Total Recoverable	2.7	mg/L	0.0050	1	09/24/21 16:00	09/27/21 22:54	7439-96-5	
Potassium, Total Recoverable	50.4	mg/L	0.50	1	09/24/21 16:00	09/27/21 22:54	7440-09-7	
Sodium, Total Recoverable	212	mg/L	0.50	1	09/24/21 16:00	09/27/21 22:54	7440-23-5	
Total Hardness by 2340B, Total Recoverable	1080	mg/L	0.50	1	09/24/21 16:00	09/27/21 22:54		
200.7 Metals, Dissolved								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Arsenic, Dissolved	0.013	mg/L	0.010	1	09/24/21 16:10	10/02/21 00:25	7440-38-2	
Iron, Dissolved	4.4	mg/L	0.050	1	09/24/21 16:10	10/02/21 00:25	7439-89-6	
Lithium, Dissolved	0.058	mg/L	0.010	1	09/24/21 16:10	10/02/21 00:25	7439-93-2	
Manganese, Dissolved	1.8	mg/L	0.0050	1	09/24/21 16:10	10/02/21 00:25	7439-96-5	
Molybdenum, Dissolved	0.054	mg/L	0.020	1	09/24/21 16:10	10/02/21 00:25	7439-98-7	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Total Recoverable	0.083	mg/L	0.010	1	09/24/21 16:00	09/27/21 22:54	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	0.070	mg/L	0.0020	2	09/24/21 16:00	10/05/21 15:28	7440-38-2	
Cobalt, Total Recoverable	0.018	mg/L	0.0020	2	09/24/21 16:00	10/05/21 15:28	7440-48-4	
Molybdenum, Total Recoverable	0.048	mg/L	0.0020	2	09/24/21 16:00	10/05/21 15:28	7439-98-7	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Kansas City								
Alkalinity,Bicarbonate (CaCO3)	328	mg/L	20.0	1		09/24/21 17:31		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	20.0	1		09/24/21 17:31		
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Kansas City								
Total Dissolved Solids	1850	mg/L	40.0	1		09/22/21 13:36		
Iron, Ferrous								
Analytical Method: SM 3500-Fe B#4								
Pace Analytical Services - Kansas City								
Iron, Ferrous	1.2	mg/L	0.20	1		09/27/21 15:42	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		09/20/21 15:27		H6

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LEC PERIMETER ASH POND WELL CC

Pace Project No.: 60380676

Sample: MW-104-091521	Lab ID: 60380676001	Collected: 09/15/21 16:00	Received: 09/17/21 14:10	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City						
Chloride	234	mg/L	20.0	20		09/23/21 19:20	16887-00-6	
Fluoride	0.80	mg/L	0.20	1		09/23/21 19:02	16984-48-8	
Sulfate	738	mg/L	100	100		09/24/21 15:30	14808-79-8	
5310C Diss. Organic Carbon LF		Analytical Method: SM 5310C Pace Analytical Services - Kansas City						
Dissolved Organic Carbon	1.3	mg/L	1.0	1		09/24/21 14:59		
Total Organic Carbon		Analytical Method: EPA 9060 Pace Analytical Services - Kansas City						
Total Organic Carbon	1.6	mg/L	1.0	1		09/27/21 11:37	7440-44-0	M1
Total Organic Carbon	2.2	mg/L	1.0	1		09/27/21 11:37	7440-44-0	
Total Organic Carbon	2.3	mg/L	1.0	1		09/27/21 11:37	7440-44-0	
Total Organic Carbon	2.3	mg/L	1.0	1		09/27/21 11:37	7440-44-0	
Mean Total Organic Carbon	2.1	mg/L	1.0	1		09/27/21 11:37	7440-44-0	

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ANALYTICAL RESULTS

Project: LEC PERIMETER ASH POND WELL CC

Pace Project No.: 60380676

Sample: LEC-CMA-DUP01-091521	Lab ID: 60380676002	Collected: 09/15/21 11:40	Received: 09/17/21 14:10	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	0.048	mg/L	0.0050	1	09/24/21 16:00	09/27/21 23:10	7440-39-3	
Boron, Total Recoverable	5.5	mg/L	0.10	1	09/24/21 16:00	09/27/21 23:10	7440-42-8	M1
Calcium, Total Recoverable	468	mg/L	0.20	1	09/24/21 16:00	09/27/21 23:10	7440-70-2	M1
Iron, Total Recoverable	7.3	mg/L	0.050	1	09/24/21 16:00	09/27/21 23:10	7439-89-6	
Magnesium, Total Recoverable	98.5	mg/L	0.050	1	09/24/21 16:00	09/27/21 23:10	7439-95-4	M1
Manganese, Total Recoverable	2.3	mg/L	0.0050	1	09/24/21 16:00	09/27/21 23:10	7439-96-5	
Potassium, Total Recoverable	26.4	mg/L	0.50	1	09/24/21 16:00	09/27/21 23:10	7440-09-7	
Sodium, Total Recoverable	368	mg/L	0.50	1	09/24/21 16:00	09/27/21 23:10	7440-23-5	M1
Total Hardness by 2340B, Total Recoverable	1570	mg/L	0.50	1	09/24/21 16:00	09/27/21 23:10		
200.7 Metals, Dissolved								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Arsenic, Dissolved	0.012	mg/L	0.010	1	09/24/21 16:10	10/02/21 00:30	7440-38-2	
Iron, Dissolved	6.7	mg/L	0.050	1	09/24/21 16:10	10/02/21 00:30	7439-89-6	
Lithium, Dissolved	0.053	mg/L	0.010	1	09/24/21 16:10	10/02/21 00:30	7439-93-2	
Manganese, Dissolved	2.3	mg/L	0.0050	1	09/24/21 16:10	10/02/21 00:30	7439-96-5	
Molybdenum, Dissolved	0.21	mg/L	0.020	1	09/24/21 16:10	10/02/21 00:30	7439-98-7	
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	09/24/21 16:00	09/27/21 23:10	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	0.0077	mg/L	0.0050	5	09/24/21 16:00	10/05/21 15:32	7440-38-2	
Cobalt, Total Recoverable	<0.0050	mg/L	0.0050	5	09/24/21 16:00	10/05/21 15:32	7440-48-4	D3
Molybdenum, Total Recoverable	0.21	mg/L	0.0050	5	09/24/21 16:00	10/05/21 15:32	7439-98-7	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Kansas City								
Alkalinity,Bicarbonate (CaCO3)	206	mg/L	20.0	1		09/24/21 17:36		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	20.0	1		09/24/21 17:36		
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Kansas City								
Total Dissolved Solids	3210	mg/L	100	1		09/22/21 13:38		
Iron, Ferrous								
Analytical Method: SM 3500-Fe B#4								
Pace Analytical Services - Kansas City								
Iron, Ferrous	0.28	mg/L	0.20	1		09/27/21 15:41	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		09/20/21 15:15		H6

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LEC PERIMETER ASH POND WELL CC

Pace Project No.: 60380676

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Sample: LEC-CMA-DUP01-091521 Lab ID: 60380676002 Collected: 09/15/21 11:40 Received: 09/17/21 14:10 Matrix: Water								
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0								
Pace Analytical Services - Kansas City								
Chloride	550	mg/L	50.0	50		09/24/21 15:41	16887-00-6	
Fluoride	2.8	mg/L	0.20	1		09/23/21 19:39	16984-48-8	
Sulfate	1520	mg/L	200	200		09/24/21 15:53	14808-79-8	
5310C Diss. Organic Carbon LF								
Analytical Method: SM 5310C								
Pace Analytical Services - Kansas City								
Dissolved Organic Carbon	1.3	mg/L	1.0	1		09/24/21 15:13		
Total Organic Carbon								
Analytical Method: EPA 9060								
Pace Analytical Services - Kansas City								
Total Organic Carbon	1.3	mg/L	1.0	1		09/28/21 17:59	7440-44-0	
Total Organic Carbon	1.7	mg/L	1.0	1		09/28/21 17:59	7440-44-0	
Total Organic Carbon	1.8	mg/L	1.0	1		09/28/21 17:59	7440-44-0	
Total Organic Carbon	1.9	mg/L	1.0	1		09/28/21 17:59	7440-44-0	
Mean Total Organic Carbon	1.7	mg/L	1.0	1		09/28/21 17:59	7440-44-0	

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELL CC

Pace Project No.: 60380676

QC Batch: 745494	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: 60380676001, 60380676002

METHOD BLANK: 2986117 Matrix: Water

Associated Lab Samples: 60380676001, 60380676002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Barium	mg/L	<0.0050	0.0050	09/27/21 22:44	
Boron	mg/L	<0.10	0.10	09/27/21 22:44	
Calcium	mg/L	<0.20	0.20	09/27/21 22:44	
Hardness, Total(SM 2340B)	mg/L	<0.50	0.50	09/27/21 22:44	
Iron	mg/L	<0.050	0.050	09/27/21 22:44	
Magnesium	mg/L	<0.050	0.050	09/27/21 22:44	
Manganese	mg/L	<0.0050	0.0050	09/27/21 22:44	
Potassium	mg/L	<0.50	0.50	09/27/21 22:44	
Sodium	mg/L	<0.50	0.50	09/27/21 22:44	

LABORATORY CONTROL SAMPLE: 2986118

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	mg/L	1	0.96	96	85-115	
Boron	mg/L	1	0.92	92	85-115	
Calcium	mg/L	10	9.7	97	85-115	
Hardness, Total(SM 2340B)	mg/L	66.2	67.0	101	85-115	
Iron	mg/L	10	9.9	99	85-115	
Magnesium	mg/L	10	10.4	104	85-115	
Manganese	mg/L	1	1.0	105	85-115	
Potassium	mg/L	10	9.7	97	85-115	
Sodium	mg/L	10	9.8	98	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2986119 2986120

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		60380676002	Spike Conc.	Spike Conc.	Result						
Barium	mg/L	0.048	1	1	1.0	0.95	98	90	70-130	7	20
Boron	mg/L	5.5	1	1	6.4	5.8	89	30	70-130	10	20 M1
Calcium	mg/L	468	10	10	477	440	90	-279	70-130	8	20 M1
Hardness, Total(SM 2340B)	mg/L	1570	66.2	66.2	1630	1500	87	-106	70-130	8	20
Iron	mg/L	7.3	10	10	16.9	15.8	96	85	70-130	7	20
Magnesium	mg/L	98.5	10	10	107	98.4	84	-1	70-130	8	20 M1
Manganese	mg/L	2.3	1	1	3.2	3.0	94	72	70-130	7	20
Potassium	mg/L	26.4	10	10	36.6	33.6	102	72	70-130	8	20
Sodium	mg/L	368	10	10	375	344	70	-236	70-130	9	20 M1

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELL CC

Pace Project No.: 60380676

MATRIX SPIKE SAMPLE:		2986121		60380682006		Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers			
Barium	mg/L	0.081	1	1.0	96	70-130				
Boron	mg/L	2.5	1	3.3	84	70-130				
Calcium	mg/L	552	10	551	-16	70-130	M1			
Hardness, Total(SM 2340B)	mg/L		66.2	2130	13	70-130				
Iron	mg/L		10	20.5	94	70-130				
Magnesium	mg/L		10	184	31	70-130	M1			
Manganese	mg/L		1	5.6	76	70-130				
Potassium	mg/L		10	41.5	97	70-130				
Sodium	mg/L		10	464	38	70-130	M1			

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELL CC

Pace Project No.: 60380676

QC Batch: 745520	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: 60380676001, 60380676002

METHOD BLANK: 2986184 Matrix: Water

Associated Lab Samples: 60380676001, 60380676002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic, Dissolved	mg/L	<0.010	0.010	10/01/21 23:51	
Iron, Dissolved	mg/L	<0.050	0.050	10/02/21 21:36	
Lithium, Dissolved	mg/L	<0.010	0.010	10/01/21 23:51	
Manganese, Dissolved	mg/L	<0.0050	0.0050	10/01/21 23:51	
Molybdenum, Dissolved	mg/L	<0.020	0.020	10/01/21 23:51	

LABORATORY CONTROL SAMPLE: 2986185

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic, Dissolved	mg/L	1	1.0	102	85-115	
Iron, Dissolved	mg/L	10	10.4	104	85-115	
Lithium, Dissolved	mg/L	1	1.0	104	85-115	
Manganese, Dissolved	mg/L	1	1.1	106	85-115	
Molybdenum, Dissolved	mg/L	1	1.1	109	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2986186 2986187

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		60380536001 Result	Spike Conc.	Spike Conc.	Result						
Arsenic, Dissolved	mg/L	<0.010	1	1	1.0	1.1	105	106	70-130	1	20
Iron, Dissolved	mg/L	<0.050	10	10	10.1	11.0	100	110	70-130	9	20
Lithium, Dissolved	mg/L	0.021	1	1	1.1	1.1	106	108	70-130	2	20
Manganese, Dissolved	mg/L	0.38	1	1	1.4	1.4	100	103	70-130	2	20
Molybdenum, Dissolved	mg/L	<0.020	1	1	1.1	1.1	108	111	70-130	2	20

MATRIX SPIKE SAMPLE: 2986188

Parameter	Units	60380763002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic, Dissolved	mg/L	0.020	1	1.1	104	70-130	
Iron, Dissolved	mg/L	1.8	10	14.0	122	70-130	
Lithium, Dissolved	mg/L	0.061	1	1.1	101	70-130	
Manganese, Dissolved	mg/L	0.51	1	2.2	171	70-130	M1
Molybdenum, Dissolved	mg/L	0.065	1	1.2	112	70-130	

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELL CC
Pace Project No.: 60380676

QC Batch: 745484	Analysis Method: EPA 200.8
QC Batch Method: EPA 200.8	Analysis Description: 200.8 MET
	Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60380676001, 60380676002

METHOD BLANK: 2986078 Matrix: Water

Associated Lab Samples: 60380676001, 60380676002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/L	<0.0010	0.0010	09/28/21 17:40	
Cobalt	mg/L	<0.0010	0.0010	09/28/21 17:40	
Molybdenum	mg/L	<0.0010	0.0010	09/28/21 17:40	

LABORATORY CONTROL SAMPLE: 2986079

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	0.04	0.041	104	85-115	
Cobalt	mg/L	0.04	0.041	101	85-115	
Molybdenum	mg/L	0.04	0.042	105	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2986080 2986081

Parameter	Units	60380633001		MS		MSD		% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result							
Arsenic	mg/L	<0.0050	0.04	0.04	0.04	0.042	0.042	102	103	70-130	1	20		
Cobalt	mg/L	<0.0050	0.04	0.04	0.04	0.040	0.041	94	95	70-130	1	20		
Molybdenum	mg/L	0.023	0.04	0.04	0.04	0.065	0.066	105	106	70-130	1	20		

MATRIX SPIKE SAMPLE: 2986082

Parameter	Units	60380682007 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	0.012	0.04	0.053	103	70-130	
Cobalt	mg/L	<0.0030	0.04	0.039	95	70-130	
Molybdenum	mg/L	0.20	0.04	0.25	115	70-130	

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELL CC

Pace Project No.: 60380676

QC Batch: 745481	Analysis Method: EPA 6010
QC Batch Method: EPA 3010	Analysis Description: 6010 MET
	Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60380676001, 60380676002

METHOD BLANK: 2986059 Matrix: Water

Associated Lab Samples: 60380676001, 60380676002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lithium	mg/L	<0.010	0.010	09/27/21 22:44	

LABORATORY CONTROL SAMPLE: 2986060

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lithium	mg/L	1	0.95	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2986061 2986062

Parameter	Units	60380676002		2986061		2986062		% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS Result	MSD Result					
Lithium	mg/L	0.050	1	1	1	1.1	0.98	100	93	75-125	7	20

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELL CC

Pace Project No.: 60380676

QC Batch: 745375

Analysis Method: SM 2320B

QC Batch Method: SM 2320B

Analysis Description: 2320B Alkalinity

Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60380676001, 60380676002

METHOD BLANK: 2985639

Matrix: Water

Associated Lab Samples: 60380676001, 60380676002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	20.0	09/24/21 16:50	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	20.0	09/24/21 16:50	

SAMPLE DUPLICATE: 2985641

Parameter	Units	60380536002 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity,Bicarbonate (CaCO3)	mg/L	470	478	2	10	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	ND		10	

SAMPLE DUPLICATE: 2985642

Parameter	Units	60380192006 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity,Bicarbonate (CaCO3)	mg/L	387	383	1	10	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	ND		10	

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELL CC

Pace Project No.: 60380676

QC Batch: 744750	Analysis Method: SM 2540C
QC Batch Method: SM 2540C	Analysis Description: 2540C Total Dissolved Solids
	Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60380676001

METHOD BLANK: 2983405 Matrix: Water

Associated Lab Samples: 60380676001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<5.0	5.0	09/22/21 13:31	

LABORATORY CONTROL SAMPLE: 2983406

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	1000	985	98	80-120	

SAMPLE DUPLICATE: 2983407

Parameter	Units	60380532002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1200	1230	2	10	

SAMPLE DUPLICATE: 2983408

Parameter	Units	60380635001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	9270	9100	2	10	

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELL CC

Pace Project No.: 60380676

QC Batch: 744751	Analysis Method: SM 2540C
QC Batch Method: SM 2540C	Analysis Description: 2540C Total Dissolved Solids
	Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60380676002

METHOD BLANK: 2983409 Matrix: Water

Associated Lab Samples: 60380676002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<5.0	5.0	09/22/21 13:36	

LABORATORY CONTROL SAMPLE: 2983410

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	1000	1000	100	80-120	

SAMPLE DUPLICATE: 2983411

Parameter	Units	60380245009 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1640	1650	1	10	

SAMPLE DUPLICATE: 2983773

Parameter	Units	60380536001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	621	608	2	10	

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELL CC

Pace Project No.: 60380676

QC Batch: 745803	Analysis Method: SM 3500-Fe B#4
QC Batch Method: SM 3500-Fe B#4	Analysis Description: Iron, Ferrous
	Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60380676001, 60380676002

METHOD BLANK: 2987614 Matrix: Water

Associated Lab Samples: 60380676001, 60380676002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron, Ferrous	mg/L	<0.20	0.20	09/27/21 15:40	H6

LABORATORY CONTROL SAMPLE: 2987615

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Ferrous	mg/L	2	2.0	98	90-110	H6

SAMPLE DUPLICATE: 2987616

Parameter	Units	60380676002 Result	Dup Result	RPD	Max RPD	Qualifiers
Iron, Ferrous	mg/L	0.28	0.29	4	20	H6

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELL CC

Pace Project No.: 60380676

QC Batch: 744363

Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B

Analysis Description: 4500H+B pH

Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60380676001, 60380676002

SAMPLE DUPLICATE: 2982291

Parameter	Units	60380288004 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	10.7	10.5	0	5	H6

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELL CC
Pace Project No.: 60380676

QC Batch: 745151 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: 60380676001, 60380676002

METHOD BLANK: 2984845 Matrix: Water

Associated Lab Samples: 60380676001, 60380676002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<1.0	1.0	09/23/21 08:20	
Fluoride	mg/L	<0.20	0.20	09/23/21 08:20	
Sulfate	mg/L	<1.0	1.0	09/23/21 08:20	

METHOD BLANK: 2987551 Matrix: Water

Associated Lab Samples: 60380676001, 60380676002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<1.0	1.0	09/24/21 08:25	
Fluoride	mg/L	<0.20	0.20	09/24/21 08:25	
Sulfate	mg/L	<1.0	1.0	09/24/21 08:25	

LABORATORY CONTROL SAMPLE: 2984846

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	5.4	107	90-110	
Fluoride	mg/L	2.5	2.7	107	90-110	
Sulfate	mg/L	5	5.5	109	90-110	

LABORATORY CONTROL SAMPLE: 2987552

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.7	94	90-110	
Sulfate	mg/L	5	4.9	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2984847 2984848

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		60380635004 Result	Spike Conc.	Spike Conc.	Result						
Chloride	mg/L	5380	5000	5000	10300	98	99	80-120	1	15	
Fluoride	mg/L	1.1	2.5	2.5	2.8	67	93	80-120	21	15	M1, R1
Sulfate	mg/L	561	250	250	900	136	119	80-120	5	15	M1

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELL CC

Pace Project No.: 60380676

MATRIX SPIKE SAMPLE:		2984849					
Parameter	Units	60380682005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	369	250	613	98	80-120	
Fluoride	mg/L	3.6	2.5	6.5	116	80-120	
Sulfate	mg/L	1330	1000	2270	94	80-120	

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELL CC

Pace Project No.: 60380676

QC Batch: 745411

Analysis Method: SM 5310C

QC Batch Method: SM 5310C

Analysis Description: 5310C Dissolved Organic Carbon

Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60380676001, 60380676002

METHOD BLANK: 2985770

Matrix: Water

Associated Lab Samples: 60380676001, 60380676002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dissolved Organic Carbon	mg/L	<1.0	1.0	09/24/21 09:51	

LABORATORY CONTROL SAMPLE: 2985771

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	5	5.0	101	80-120	

MATRIX SPIKE SAMPLE: 2985768

Parameter	Units	60380763001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	2.5	5	7.9	107	80-120	

SAMPLE DUPLICATE: 2985769

Parameter	Units	60380763001 Result	Dup Result	RPD	Max RPD	Qualifiers
Dissolved Organic Carbon	mg/L	2.5	2.7	6	25	

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELL CC

Pace Project No.: 60380676

QC Batch: 745660

Analysis Method: EPA 9060

QC Batch Method: EPA 9060

Analysis Description: 9060 TOC

Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60380676002

METHOD BLANK: 2987027

Matrix: Water

Associated Lab Samples: 60380676002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mean Total Organic Carbon	mg/L	<1.0	1.0	09/28/21 10:48	
Total Organic Carbon	mg/L	<1.0	1.0	09/28/21 10:48	
Total Organic Carbon	mg/L	<1.0	1.0	09/28/21 10:48	
Total Organic Carbon	mg/L	<1.0	1.0	09/28/21 10:48	
Total Organic Carbon	mg/L	<1.0	1.0	09/28/21 10:48	

LABORATORY CONTROL SAMPLE: 2987028

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mean Total Organic Carbon	mg/L	5	5.2	104	80-120	
Total Organic Carbon	mg/L	5	5.2	105	80-120	
Total Organic Carbon	mg/L	5	5.3	105	80-120	
Total Organic Carbon	mg/L	5	5.1	101	80-120	
Total Organic Carbon	mg/L	5	5.2	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2987029 2987030

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		60380536002 Result	Spike Conc.	Spike Conc.	Result						
Mean Total Organic Carbon	mg/L	5.4	5	5	10.7	10.8	106	108	80-120	1	25
Total Organic Carbon	mg/L	5.2	5	5	10.3	10.6	103	109	80-120	3	25
Total Organic Carbon	mg/L	5.5	5	5	10.8	10.9	107	109	80-120	1	25
Total Organic Carbon	mg/L	5.5	5	5	10.9	10.8	107	107	80-120	0	25
Total Organic Carbon	mg/L	5.5	5	5	10.7	10.9	105	108	80-120	1	25

SAMPLE DUPLICATE: 2987031

Parameter	Units	60380536003 Result	Dup Result	RPD	Max RPD	Qualifiers
Mean Total Organic Carbon	mg/L	2.7	2.7	1	25	
Total Organic Carbon	mg/L	2.6	2.6	2	25	
Total Organic Carbon	mg/L	2.7	2.7	1	25	
Total Organic Carbon	mg/L	2.7	2.7	1	25	
Total Organic Carbon	mg/L	2.7	2.8	0	25	

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELL CC

Pace Project No.: 60380676

QC Batch: 745661

Analysis Method: EPA 9060

QC Batch Method: EPA 9060

Analysis Description: 9060 TOC

Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60380676001

METHOD BLANK: 2987034

Matrix: Water

Associated Lab Samples: 60380676001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mean Total Organic Carbon	mg/L	<1.0	1.0	09/27/21 10:34	
Total Organic Carbon	mg/L	<1.0	1.0	09/27/21 10:34	
Total Organic Carbon	mg/L	<1.0	1.0	09/27/21 10:34	
Total Organic Carbon	mg/L	<1.0	1.0	09/27/21 10:34	
Total Organic Carbon	mg/L	<1.0	1.0	09/27/21 10:34	

LABORATORY CONTROL SAMPLE: 2987035

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mean Total Organic Carbon	mg/L	5	5.2	104	80-120	
Total Organic Carbon	mg/L	5	5.1	102	80-120	
Total Organic Carbon	mg/L	5	5.3	105	80-120	
Total Organic Carbon	mg/L	5	5.3	105	80-120	
Total Organic Carbon	mg/L	5	5.2	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2987036 2987037

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		60380676001 Result	Spike Conc.	Spike Conc.	Result						
Mean Total Organic Carbon	mg/L	2.1	5	5	6.4	6.2	88	83	80-120	4	25
Total Organic Carbon	mg/L	2.2	5	5	6.7	6.4	90	85	80-120	4	25
Total Organic Carbon	mg/L	2.3	5	5	6.7	6.5	90	85	80-120	3	25
Total Organic Carbon	mg/L	1.6	5	5	5.6	5.5	80	77	80-120	3	25 M1
Total Organic Carbon	mg/L	2.3	5	5	6.8	6.4	90	84	80-120	5	25

SAMPLE DUPLICATE: 2987038

Parameter	Units	60380536008 Result	Dup Result	RPD	Max RPD	Qualifiers
Mean Total Organic Carbon	mg/L	2.3	2.2	2	25	
Total Organic Carbon	mg/L	2.1	2.0	2	25	
Total Organic Carbon	mg/L	2.3	2.3	1	25	
Total Organic Carbon	mg/L	2.4	2.3	2	25	
Total Organic Carbon	mg/L	2.3	2.3	1	25	

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REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: LEC PERIMETER ASH POND WELL CC

Pace Project No.: 60380676

Sample: MW-104-091521 **Lab ID: 60380676001** Collected: 09/15/21 16:00 Received: 09/17/21 14:10 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	-0.148 ± 0.458 (1.04) C:NA T:90%	pCi/L	10/26/21 13:16	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	1.27 ± 0.503 (0.792) C:69% T:85%	pCi/L	10/25/21 11:34	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.27 ± 0.680 (1.04)	pCi/L	11/24/21 15:38	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: LEC PERIMETER ASH POND WELL CC

Pace Project No.: 60380676

Sample: LEC-CMA-DUP01-091521 **Lab ID:** 60380676002 Collected: 09/15/21 11:40 Received: 09/17/21 14:10 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 ± 0.468 (0.989) C:NA T:95%	pCi/L	10/26/21 13:16	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	1.38 ± 0.565 (0.932) C:68% T:86%	pCi/L	10/25/21 11:34	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.38 ± 0.734 (0.989)	pCi/L	11/24/21 15:38	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: LEC PERIMETER ASH POND WELL CC

Pace Project No.: 60380676

QC Batch:	468595	Analysis Method:	EPA 903.1
QC Batch Method:	EPA 903.1	Analysis Description:	903.1 Radium-226
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 60380676001, 60380676002

METHOD BLANK:	2262575	Matrix:	Water
---------------	---------	---------	-------

Associated Lab Samples: 60380676001, 60380676002

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.000 ± 0.373 (0.789) C:NA T:91%	pCi/L	10/26/21 13:16	

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: LEC PERIMETER ASH POND WELL CC

Pace Project No.: 60380676

QC Batch: 468597

Analysis Method: EPA 904.0

QC Batch Method: EPA 904.0

Analysis Description: 904.0 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 60380676001, 60380676002

METHOD BLANK: 2262576

Matrix: Water

Associated Lab Samples: 60380676001, 60380676002

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.424 ± 0.347 (0.691) C:69% T:92%	pCi/L	10/25/21 11:36	

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: LEC PERIMETER ASH POND WELL CC

Pace Project No.: 60380676

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

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

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.

R1 RPD value was outside control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: LEC PERIMETER ASH POND WELL CC

Pace Project No.: 60380676

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60380676001	MW-104-091521	EPA 200.7	745494	EPA 200.7	745593
60380676002	LEC-CMA-DUP01-091521	EPA 200.7	745494	EPA 200.7	745593
60380676001	MW-104-091521	EPA 200.7	745520	EPA 200.7	745584
60380676002	LEC-CMA-DUP01-091521	EPA 200.7	745520	EPA 200.7	745584
60380676001	MW-104-091521	EPA 3010	745481	EPA 6010	745594
60380676002	LEC-CMA-DUP01-091521	EPA 3010	745481	EPA 6010	745594
60380676001	MW-104-091521	EPA 200.8	745484	EPA 200.8	745598
60380676002	LEC-CMA-DUP01-091521	EPA 200.8	745484	EPA 200.8	745598
60380676001	MW-104-091521	EPA 903.1	468595		
60380676002	LEC-CMA-DUP01-091521	EPA 903.1	468595		
60380676001	MW-104-091521	EPA 904.0	468597		
60380676002	LEC-CMA-DUP01-091521	EPA 904.0	468597		
60380676001	MW-104-091521	Total Radium Calculation	474011		
60380676002	LEC-CMA-DUP01-091521	Total Radium Calculation	474011		
60380676001	MW-104-091521	SM 2320B	745375		
60380676002	LEC-CMA-DUP01-091521	SM 2320B	745375		
60380676001	MW-104-091521	SM 2540C	744750		
60380676002	LEC-CMA-DUP01-091521	SM 2540C	744751		
60380676001	MW-104-091521	SM 3500-Fe B#4	745803		
60380676002	LEC-CMA-DUP01-091521	SM 3500-Fe B#4	745803		
60380676001	MW-104-091521	SM 4500-H+B	744363		
60380676002	LEC-CMA-DUP01-091521	SM 4500-H+B	744363		
60380676001	MW-104-091521	EPA 300.0	745151		
60380676002	LEC-CMA-DUP01-091521	EPA 300.0	745151		
60380676001	MW-104-091521	SM 5310C	745411		
60380676002	LEC-CMA-DUP01-091521	SM 5310C	745411		
60380676001	MW-104-091521	EPA 9060	745661		
60380676002	LEC-CMA-DUP01-091521	EPA 9060	745660		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

WO#: 60380676



Client Name: Energy
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-2016 Type of Ice: Wet Blue None
Cooler Temperature (°C): As-read 1.9 Corr. Factor -0.3 Corrected 1.6

Date and initials of person examining contents:

Temperature should be above freezing to 6°C

Table with 2 columns: Question/Field and Yes/No/N/A checkboxes. Rows include Chain of Custody, Samples arrived, Short Hold Time, Rush Turn Around Time, Sufficient volume, Correct containers used, Pace containers used, Containers intact, Unpreserved soils, Filtered volume, Sample labels match COC, Samples contain multiple phases, Containers requiring pH preservation, Cyanide water sample checks, Trip Blank present, Headspace in VOA vials, Samples from USDA Regulated Area, Additional labels attached to 5035A / TX1005 vials.

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N
Person Contacted: Date/Time:
Comments/ Resolution:

Project Manager Review: Date:



CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 2

Section A
Required Client Information:
 Company: **EVERGY KANSAS CENTRAL, INC.**
 Address: **Lawrence Energy Center (LEC)**
818 Kansas Ave, Topeka, KS 66612
 Email To: **melissa.michels@evergy.com**
 Phone: **785-575-8113** Fax:
 Requested Due Date/TAT:

Section B
Required Project Information:
 Report To: **Melissa Michels, Samantha Kaney, Danielle Ober**
 Copy To: **Jared Morrison, Jake Humphrey, Laura Hines**
Andrew Hare, Tabitha Hylton
 Purchase Order No.:
 Project Name: **LEC Perimeter Ash Pond Water CCR**
 Project Number:

Section C
Invoice Information:
 Attention: **Accounts Payable**
 Company Name: **EVERGY KANSAS CENTRAL, INC**
 Address: **SAME AS A**
 Pace Quote Reference:
 Pace Project Manager: **Hank Kapka, 913-563-1404**
 Pace Profile #: **9655, 1**

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

ITEM #	MATRIX CODE	COLLECTED		SAMPLE TEMP AT COLLECTION		# OF CONTAINERS	PRESERVATIVES	Requested Analysis Filtered (Y/N)	ANALYSIS TESTS										Pace Project No./ Lab I.D.					
		COMPOSITE START	DATE	TIME	COMPOSITE END/GRAB				DATE	TIME	Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other						
1	MW-104-091521	G	09/15/21	16:00		12		Y	Analysis Test ↑	Ra 226/228	Sulfide	Alkalinity, Bicarbonate (Ca)	Alkalinity, Carbonate (Ca)	300: Cl, F, SO ₄	2540 TDS, Hardness	4500H+ pH, Ferrous Iron	200.7 Total Metals	200.7 Diss. Metals (FF)**	200.8 Total Metals***	6010 Total Metals****	TOC, DOC, Hardness	Residual Chlorine (Y/N)	6038067e	
2	LEC-CMA-DUP01-091521	G	09/15/21	11:40		12		N																

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Total Metals: Ba, B, Ca, Fe, Mg, Mn, K, Na (8 metals) Dissolved Metals: Fe, As, Li, Mo, Mn (5 metals), FIELD (RED) Total Metals: As, Co, Mo (3 metals) Total Metals: U (1 metal)	Britta Coleman/SCS Engineers	9/17/21		<i>Britta Coleman</i>	9/21/21	14:00	Y N Y
SAMPLER NAME AND SIGNATURE							
PRINT Name of SAMPLER: Britta Coleman							
SIGNATURE of SAMPLER: <i>Britta Coleman</i>							
DATE Signed (MM/DD/YY):							

*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

COC Line Item	Matrix	AG1U	AG1H	BG1U	DG9U	VG9U	DG9H	DG9Q	VG9Q	DG9H	AG1U	AG2U	AG3S	AG4U	AG5U	BP1U	BP2U	BP3U	BP1N	BP3N	BP3F	BP3S	BP3C	BP3Z	JGFU	WGKU	ZPLC	DG9M	DG9B	
1																														
2																														
3																														
4																														
5																														
6																														
7																														
8																														
9																														
10																														
11																														
12																														

Container Codes

	Glass	Plastic	Misc.
DG9B	40mL bisulfate clear vial	1L NaOH plastic	Wipe/Swab
DG9H	40mL HCl amber vial	1L HNO3 plastic	SP5T
DG9M	40mL MeOH clear vial	1L H2SO4 plastic	ZPLC
DG9Q	40mL TSP amber vial	1L unreserved plastic	AF
DG9S	40mL H2SO4 amber vial	1L NaOH, Zn Acetate	C
DG9T	40mL Na Thio amber vial	500mL NaOH plastic	R
DG9U	40mL amber unreserved	500mL HNO3 plastic	U
VG9H	40mL HCl clear vial	500mL H2SO4 plastic	
VG9T	40mL Na Thio. clear vial	500mL unreserved plastic	
VG9U	40mL unreserved clear vial	500mL NaOH, Zn Acetate	
BG1S	1liter H2SO4 clear glass	250mL NaOH plastic	
BG1U	1liter unpres glass	250mL HNO3 plastic - field filtered	
BG3H	250mL HCL Clear glass	250mL unreserved plastic	
BG3U	250mL Unpres Clear glass	250mL H2SO4 plastic	
		250mL NaOH, Zn Acetate	
		125mL unreserved plastic	
		100mL unreserved plastic	
		125mL HNO3 plastic	
		125mL H2SO4 plastic	

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

COC PAGE 2 of 2
 Client: Energy Vargas Central, Inc
 Site: LEC Perimeter Ash Pond Wells CCP

Profile # 9655:1

Notes Schedule/BPIN for S1-38PAD and IBPIN for S1-38PAD002

COC Line Item	Matrix	R	VG9H	DG9H	DG9Q	VG9U	DG9U	BG1U	AG1H	AG1U	AG2U	AG3S	AG4U	AG5U	BP1U	BP2U	BP3U	BP1N	BP3N	BP3F	BP3S	BP3C	BP3Z	JGFU	WGKU	ZPLC	DG9M	DG9B		
1																														
2																		2	2	1	1									
3																		4	2	1	1									
4																		4	2	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	Wipe/Swab
DG9H	40mL HCl amber vial	WGKU	4oz clear soil jar	BP1N	1L HNO3 plastic	120mL Coliform Na Thiosulfate
DG9M	40mL MeOH clear vial	WG2U	2oz clear soil jar	BP1S	1L H2SO4 plastic	Ziploc Bag
DG9Q	40mL TSP amber vial	JGFU	4oz unpreserved amber wide	BP1U	1L unpreserved plastic	Air Filter
DG9S	40mL H2SO4 amber vial	AG0U	100mL unores amber glass	BP1Z	1L NaOH, Zn Acetate	Air Cassettes
DG9T	40mL Na Thio amber vial	AG1H	1L HCl amber glass	BP2C	500mL NaOH plastic	Terracore Kit
DG9U	40mL amber unpreserved	AG1S	1L H2SO4 amber glass	BP2N	500mL HNO3 plastic	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	
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	
BG3H	250mL HCL Clear glass	AG3U	500mL unpres amber glass	BP3N	250mL HNO3 plastic	Water
BG3U	250mL Unpres Clear glass	AG4U	125mL unpres amber glass	BP3U	250mL unpreserved plastic	Solid
		AG5U	100mL unpres amber glass	BP3S	250mL H2SO4 plastic	Non-aqueous Liquid
				BP3Z	250mL NaOH, Zn Acetate	OIL
				BP4U	125mL unpreserved plastic	Wipe
				BP4N	125mL HNO3 plastic	Drinking Water
				BP4S	125mL H2SO4 plastic	

Internal Transfer Chain of Custody

WO#: 30444765



Samples Pre-Logged into eCOC.

State Of Origin: KS
 Cert. Needed: Yes

Workorder: 60380676 Workorder Name: LEC PERIMETER ASH POND WELL COOWNER Received Date: 9/17/2021 Results Requested By: 9/26/2021

Report To		Subcontract To		Requested Analysis				
Hank Kapka 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		Radium 226	Radium 228			
Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Unpreserved	Preserved Containers	LAB USE ONLY
1	MVA-104-091521	PS	9/15/2021 16:00	60380676001	Water	1		X
2	LEC-CMA-DUP01-091521	PS	9/15/2021 11:40	60380676002	Water	1		X
3								
4								
5								
Transfers		Released By	Date/Time	Received By	Date/Time	Comments		
1				<i>J. Adreaga</i>	9/23/21 10:10			
2								
3								
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.

Pittsburgh Lab Sample Condition Upon Receipt



Client Name: Pace KS

Project # _____

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Tracking #: 50020654 91604/9701

Label <u>2a</u>
LIMS Login <u>ECOC</u>

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:	pH paper Lot#			Date and Initials of person examining contents:
	Yes	No	N/A	
Chain of Custody Present:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1. <u>1000411</u>
Chain of Custody Filled Out:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2.
Chain of Custody Relinquished:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3.
Sampler Name & Signature on COC:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4.
Sample Labels match COC: -Includes date/time/ID Matrix: <u>WT</u>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	5. <u>ID on samples MW-04-091521</u> <u>ID on COC LEC-CMA-DUP01-091521</u>
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6.
Short Hold Time Analysis (<72hr remaining):	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	7.
Rush Turn Around Time Requested:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	8.
Sufficient Volume:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9.
Correct Containers Used: -Pace Containers Used:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10.
Containers Intact:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	11. <u>09/27/21</u>
Orthophosphate field filtered	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	12.
Hex Cr Aqueous sample field filtered	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	13.
Organic Samples checked for dechlorination:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	14.
Filtered volume received for Dissolved tests	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	15.
All containers have been checked for preservation. exceptions: VOA, coliform, TOC, O&G, Phenolics, Radon, Non-aqueous matrix	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	16.
All containers meet method preservation requirements.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Initial when completed <u>AE</u> Date/time of preservation _____
				Lot # of added preservative _____
Headspace in VOA Vials (>6mm):	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	17.
Trip Blank Present:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	18.
Trip Blank Custody Seals Present	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Rad-Samples Screened < 0.5 mrem/hr	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Initial when completed <u>AE</u> Date: <u>10-12-21</u> Survey Meter SN: <u>1563</u>

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____ Contacted By: _____

Comments/ Resolution:

Samples received 60380676 (ABPIN) sample 001 9151211600

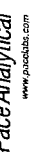
A check in this box indicates that additional information has been stored in ereports.

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

*PM review is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.

MO# : 30444765
 PH: MSI Due Date: 09/28/21
 CLIENT: PACE_60_LEKS

Quality Control Sample Performance Assessment



Test: Ra-226
Analyst: MK1
Date: 10/20/2021
Batch ID: 63181
Matrix: DW

Method Blank Assessment	
MB Sample ID	2262575
MB concentration:	0.000
MB Counting Uncertainty:	0.373
MB MDC:	0.789
MB Numerical Performance Indicator:	0.00
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	
LCS# (Y or N)?	N
LCS#63181	LCS#63181
Count Date:	10/26/2021
Spike I.D.:	20-032
Spike Concentration (pCi/mL):	32.169
Volume Used (mL):	0.10
Aliquot Volume (L, g, F):	0.651
Target Conc. (pCi/L, g, F):	4.942
Uncertainty (Calculated):	0.232
Result (pCi/L, g, F):	4.819
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.999
Numerical Performance Indicator:	-0.24
Percent Recovery:	97.50%
Status vs Numerical Indicator:	N/A
Status vs Recovery:	Pass
Upper % Recovery Limits:	135%
Lower % Recovery Limits:	73%

Duplicate Sample Assessment	
Sample I.D.:	30445044001
Duplicate Sample I.D.:	30445044001DUP
Sample Result (pCi/L, g, F):	0.291
Sample Duplicate Result (pCi/L, g, F):	0.349
Sample Duplicate Result (pCi/L, g, F):	0.556
Sample Duplicate Result (pCi/L, g, F):	0.431
Are sample and/or duplicate results below RL?	See Below #
Duplicate Numerical Performance Indicator:	-0.939
Duplicate RPD:	62.71%
Duplicate Status vs Numerical Indicator:	N/A
Duplicate Status vs RPD:	Fail
% RPD Limit:	32%

Enter Duplicate sample IDs if other than LCS/LCSD in the space below:
30445044001
30445044001DUP

Comments:

Results < MDC, N/A
Batch must be re-prepped due to unacceptable precision.

MU
10-26-21

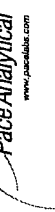
Analyst Must Manually Enter All Fields Highlighted in Yellow.

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:	9/29/2021	
Sample I.D.:	30445045001	
Sample MS I.D.:	30445045001MS	
Sample MSD I.D.:		
Spike I.D.:	20-032	
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	32.170	
Spike Volume Used in MS (mL):	0.20	
MS Aliquot (L, g, F):	0.662	
MS Target Conc. (pCi/L, g, F):	9.725	
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):	0.457	
MS Spike Uncertainty (calculated):	-0.056	
MSD Spike Uncertainty (calculated):	0.190	
Sample Result Counting Uncertainty (pCi/L, g, F):	9.151	
Sample Matrix Spike Result:	1.526	
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Sample Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):		
MS Numerical Performance Indicator:	-0.633	
MSD Numerical Performance Indicator:	94.67%	
MS Percent Recovery:	N/A	
MSD Percent Recovery:	Pass	
MS Status vs Numerical Indicator:	136%	
MSD Status vs Numerical Indicator:	71%	
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 I.D.
Sample MS I.D.:	Sample MS I.D.
Sample MSD I.D.:	Sample MSD I.D.
Sample Matrix Spike Result:	Sample Matrix Spike Result
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	Sample Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):
Sample Matrix Spike Duplicate Result:	Sample Matrix Spike Duplicate Result
Sample Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	Duplicate Numerical Performance Indicator:
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 Numerical Indicator:
MS/MSD Duplicate Status vs RPD:	% RPD Limit:

OK MATTER

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-228
 Analyst: VAL
 Date: 10/21/2021
 Worklist: 63182
 Matrix: WT

Method Blank Assessment	
MB Sample ID	2262576
MB concentration:	0.424
MB 2 Sigma CSU:	0.347
MB MDC:	0.691
MB Numerical Performance Indicator:	2.40
MB Status vs Numerical Indicator:	Warning
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	
	LCS63182	Y
Count Date:	10/25/2021	LCS63182
Spike I.D.:	21-029	21-029
Decay Corrected Spike Concentration (pCi/mL):	37.711	37.711
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.810	0.803
Target Conc. (pCi/L, g, F):	4.658	4.698
Uncertainty (Calculated):	0.228	0.230
Result (pCi/L, g, F):	5.085	5.794
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	1.136	1.252
Numerical Performance Indicator:	0.72	1.69
Percent Recovery:	109.15%	123.32%
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	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Sample I.D.:	LCS63182
Duplicate Sample I.D.:	LCS63182
Sample Result (pCi/L, g, F):	5.085
Sample Result 2 Sigma CSU (pCi/L, g, F):	1.136
Sample Duplicate Result (pCi/L, g, F):	5.794
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.252
Are sample and/or duplicate results below RL?	NO
Duplicate Numerical Performance Indicator:	-0.822
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	12.19%
Duplicate Status vs Numerical Indicator:	Pass
Duplicate Status vs RPD:	Pass
% RPD Limit:	36%

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

Comments:

Handwritten signature/initials

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:	9/27/2021	
Sample I.D.:	30445046001	
Sample MS I.D.:	30445046001MS	
Sample MSD I.D.:		
Spike I.D.:	21-029	
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	38.060	
Spike Volume Used in MS (mL):	0.20	
MS Aliquot (L, g, F):	0.809	
MS Target Conc. (pCi/L, g, F):	9.413	
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):	0.461	
MSD Spike Uncertainty (calculated):		
Sample Result:	0.438	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.370	
Sample Matrix Spike Result:	10.819	
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	2.130	
Sample Matrix Spike Duplicate Result:		
Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.858	
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:	110.29%	
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:	Pass	
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:	Pass	
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:	135%	
MS/MSD Lower % Recovery Limits:	60%	

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

Handwritten note: Related

October 29, 2021

Melissa Michels
Evergy, Inc.
818 Kansas Avenue
Topeka, KS 66612

RE: Project: ADDTL ANALYSES-LEC INACTIVE AS
Pace Project No.: 60380763

Dear Melissa Michels:

Enclosed are the analytical results for sample(s) received by the laboratory on September 17, 2021. 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,



Hank Kapka
hank.kapka@pacelabs.com
(913)599-5665
PM Lab Management

Enclosures

cc: Andrew Hare, Evergy, Inc.
Laura Hines, Evergy, Inc.
Jake Humphrey, Evergy, Inc.
Tabitha Hylton, Evergy Kansas Central, Inc. Lawrence
Energy Center
Samantha Kaney, Haley & Aldrich
Jared Morrison, Evergy, Inc.
Danielle Oberbroeckling, Haley & Aldrich
Melanie Satanek, Haley & Aldrich, Inc.



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: ADDTL ANALYSES-LEC INACTIVE AS

Pace Project No.: 60380763

Pace Analytical Services Kansas

9608 Loiret Boulevard, Lenexa, KS 66219

Missouri Inorganic Drinking Water Certification #: 10090

Arkansas Drinking Water

Arkansas Certification #: 20-020-0

Arkansas Drinking Water

Illinois Certification #: 2000302021-3

Iowa Certification #: 118

Kansas/NELAP Certification #: E-10116

Louisiana Certification #: 03055

Nevada Certification #: KS000212020-2

Oklahoma Certification #: 9205/9935

Florida: Cert E871149 SEKS WET

Texas Certification #: T104704407-19-12

Utah Certification #: KS000212019-9

Illinois Certification #: 004592

Kansas Field Laboratory Accreditation: # E-92587

Missouri SEKS Micro Certification: 10070

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: ADDTL ANALYSES-LEC INACTIVE AS

Pace Project No.: 60380763

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60380763001	MW-37-091621	Water	09/16/21 09:50	09/17/21 12:50
60380763002	MW-38-091621	Water	09/16/21 10:10	09/17/21 12:50
60380763003	MW-39-091621	Water	09/16/21 09:45	09/17/21 12:50
60380763004	MW-40-091621	Water	09/16/21 10:10	09/17/21 12:50
60380763005	MW-k-091621	Water	09/16/21 12:30	09/17/21 12:50
60380763006	MW-L-091621	Water	09/16/21 13:20	09/17/21 12:50
60380763007	LEC-AP-DUP-091621	Water	09/16/21 09:45	09/17/21 12:50

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SAMPLE ANALYTE COUNT

Project: ADDTL ANALYSES-LEC INACTIVE AS

Pace Project No.: 60380763

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60380763001	MW-37-091621	EPA 200.7	JLH	6	PASI-K
		EPA 200.7	JLH	5	PASI-K
		SM 2320B	KB	2	PASI-K
		SM 3500-Fe B#4	AG1	1	PASI-K
		EPA 300.0	ALH, JDS	2	PASI-K
		SM 5310C	HM1	1	PASI-K
		EPA 9060	HM1	5	PASI-K
60380763002	MW-38-091621	EPA 200.7	JLH	7	PASI-K
		EPA 200.7	JLH	5	PASI-K
		SM 2320B	KB	2	PASI-K
		SM 3500-Fe B#4	AG1	1	PASI-K
		EPA 300.0	ALH, JDS	2	PASI-K
		SM 5310C	HM1	1	PASI-K
		EPA 9060	HM1	5	PASI-K
60380763003	MW-39-091621	EPA 200.7	JLH	7	PASI-K
		EPA 200.7	JLH	5	PASI-K
		SM 2320B	KB	2	PASI-K
		SM 3500-Fe B#4	AG1	1	PASI-K
		EPA 300.0	ALH, JDS	2	PASI-K
		SM 5310C	HM1	1	PASI-K
		EPA 9060	HM1	5	PASI-K
60380763004	MW-40-091621	EPA 200.7	JLH	7	PASI-K
		EPA 200.7	JLH	5	PASI-K
		SM 2320B	KB	2	PASI-K
		SM 3500-Fe B#4	AG1	1	PASI-K
		EPA 300.0	ALH, JDS	2	PASI-K
		SM 5310C	HM1	1	PASI-K
		EPA 9060	HM1	5	PASI-K
60380763005	MW-k-091621	EPA 200.7	JLH	7	PASI-K
		EPA 200.7	JLH	5	PASI-K
		SM 2320B	KB	2	PASI-K
		SM 3500-Fe B#4	AG1	1	PASI-K
		EPA 300.0	JDS	2	PASI-K
		SM 5310C	HM1	1	PASI-K
		EPA 9060	HM1	5	PASI-K
60380763006	MW-L-091621	EPA 200.7	JLH	7	PASI-K
		EPA 200.7	JLH	5	PASI-K

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SAMPLE ANALYTE COUNT

Project: ADDTL ANALYSES-LEC INACTIVE AS

Pace Project No.: 60380763

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 2320B	KB	2	PASI-K
		SM 3500-Fe B#4	AG1	1	PASI-K
		EPA 300.0	JDS	2	PASI-K
		SM 5310C	HM1	1	PASI-K
		EPA 9060	HM1	5	PASI-K
60380763007	LEC-AP-DUP-091621	EPA 200.7	JLH	7	PASI-K
		EPA 200.7	JLH	5	PASI-K
		SM 2320B	KB	2	PASI-K
		SM 3500-Fe B#4	AG1	1	PASI-K
		EPA 300.0	ALH, JDS	2	PASI-K
		SM 5310C	HM1	1	PASI-K
		EPA 9060	HM1	5	PASI-K

PASI-K = Pace Analytical Services - Kansas City

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: ADDTL ANALYSES-LEC INACTIVE AS

Pace Project No.: 60380763

Sample: MW-37-091621	Lab ID: 60380763001	Collected: 09/16/21 09:50	Received: 09/17/21 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								
Iron, Total Recoverable	3.2	mg/L	0.050	1	09/27/21 12:40	10/02/21 01:24	7439-89-6	
Magnesium, Total Recoverable	22.6	mg/L	0.050	1	09/27/21 12:40	10/02/21 01:24	7439-95-4	
Manganese, Total Recoverable	1.2	mg/L	0.0050	1	09/27/21 12:40	10/02/21 01:24	7439-96-5	
Potassium, Total Recoverable	8.6	mg/L	0.50	1	09/27/21 12:40	10/02/21 01:24	7440-09-7	
Sodium, Total Recoverable	81.1	mg/L	0.50	1	09/27/21 12:40	10/02/21 01:24	7440-23-5	M1
Total Hardness by 2340B, Total Recoverable	681	mg/L	0.50	1	09/27/21 12:40	10/02/21 01:24		
200.7 Metals, Dissolved								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Arsenic, Dissolved	<0.010	mg/L	0.010	1	09/24/21 16:10	10/02/21 00:40	7440-38-2	
Iron, Dissolved	2.9	mg/L	0.050	1	09/24/21 16:10	10/02/21 00:40	7439-89-6	
Lithium, Dissolved	0.017	mg/L	0.010	1	09/24/21 16:10	10/02/21 00:40	7439-93-2	
Manganese, Dissolved	1.1	mg/L	0.0050	1	09/24/21 16:10	10/02/21 00:40	7439-96-5	
Molybdenum, Dissolved	0.094	mg/L	0.020	1	09/24/21 16:10	10/02/21 00:40	7439-98-7	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Kansas City								
Alkalinity,Bicarbonate (CaCO3)	350	mg/L	20.0	1		09/23/21 16:28		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	20.0	1		09/23/21 16:28		
Iron, Ferrous								
Analytical Method: SM 3500-Fe B#4								
Pace Analytical Services - Kansas City								
Iron, Ferrous	<0.20	mg/L	0.20	1		09/23/21 15:37		H6
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0								
Pace Analytical Services - Kansas City								
Chloride	41.0	mg/L	5.0	5		09/24/21 19:03	16887-00-6	
Sulfate	376	mg/L	20.0	20		09/24/21 03:18	14808-79-8	
5310C Diss. Organic Carbon LF								
Analytical Method: SM 5310C								
Pace Analytical Services - Kansas City								
Dissolved Organic Carbon	2.5	mg/L	1.0	1		09/24/21 11:00		
Total Organic Carbon								
Analytical Method: EPA 9060								
Pace Analytical Services - Kansas City								
Total Organic Carbon	4.8	mg/L	1.0	1		09/28/21 18:31	7440-44-0	
Total Organic Carbon	5.2	mg/L	1.0	1		09/28/21 18:31	7440-44-0	
Total Organic Carbon	5.2	mg/L	1.0	1		09/28/21 18:31	7440-44-0	
Total Organic Carbon	5.3	mg/L	1.0	1		09/28/21 18:31	7440-44-0	
Mean Total Organic Carbon	5.1	mg/L	1.0	1		09/28/21 18:31	7440-44-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: ADDTL ANALYSES-LEC INACTIVE AS

Pace Project No.: 60380763

Sample: MW-38-091621	Lab ID: 60380763002	Collected: 09/16/21 10:10	Received: 09/17/21 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								
Calcium, Total Recoverable	252	mg/L	0.20	1	09/27/21 12:40	10/02/21 01:38	7440-70-2	
Iron, Total Recoverable	3.0	mg/L	0.050	1	09/27/21 12:40	10/02/21 01:38	7439-89-6	
Magnesium, Total Recoverable	89.8	mg/L	0.050	1	09/27/21 12:40	10/02/21 01:38	7439-95-4	
Manganese, Total Recoverable	0.52	mg/L	0.0050	1	09/27/21 12:40	10/02/21 01:38	7439-96-5	
Potassium, Total Recoverable	24.9	mg/L	0.50	1	09/27/21 12:40	10/02/21 01:38	7440-09-7	
Sodium, Total Recoverable	195	mg/L	0.50	1	09/27/21 12:40	10/02/21 01:38	7440-23-5	
Total Hardness by 2340B, Total Recoverable	999	mg/L	0.50	1	09/27/21 12:40	10/02/21 01:38		
200.7 Metals, Dissolved								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Arsenic, Dissolved	0.020	mg/L	0.010	1	09/24/21 16:10	10/02/21 00:42	7440-38-2	
Iron, Dissolved	1.8	mg/L	0.050	1	09/24/21 16:10	10/02/21 00:42	7439-89-6	
Lithium, Dissolved	0.061	mg/L	0.010	1	09/24/21 16:10	10/02/21 00:42	7439-93-2	
Manganese, Dissolved	0.51	mg/L	0.0050	1	09/24/21 16:10	10/02/21 00:42	7439-96-5	M1
Molybdenum, Dissolved	0.065	mg/L	0.020	1	09/24/21 16:10	10/02/21 00:42	7439-98-7	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Kansas City								
Alkalinity,Bicarbonate (CaCO3)	321	mg/L	20.0	1		09/23/21 16:35		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	20.0	1		09/23/21 16:35		
Iron, Ferrous								
Analytical Method: SM 3500-Fe B#4								
Pace Analytical Services - Kansas City								
Iron, Ferrous	<0.20	mg/L	0.20	1		09/27/21 15:42		H6
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0								
Pace Analytical Services - Kansas City								
Chloride	146	mg/L	20.0	20		09/24/21 03:55	16887-00-6	
Sulfate	729	mg/L	100	100		09/24/21 19:15	14808-79-8	
5310C Diss. Organic Carbon LF								
Analytical Method: SM 5310C								
Pace Analytical Services - Kansas City								
Dissolved Organic Carbon	1.8	mg/L	1.0	1		09/24/21 11:40		
Total Organic Carbon								
Analytical Method: EPA 9060								
Pace Analytical Services - Kansas City								
Total Organic Carbon	1.8	mg/L	1.0	1		09/28/21 19:02	7440-44-0	
Total Organic Carbon	2.4	mg/L	1.0	1		09/28/21 19:02	7440-44-0	
Total Organic Carbon	2.5	mg/L	1.0	1		09/28/21 19:02	7440-44-0	
Total Organic Carbon	2.6	mg/L	1.0	1		09/28/21 19:02	7440-44-0	
Mean Total Organic Carbon	2.3	mg/L	1.0	1		09/28/21 19:02	7440-44-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: ADDTL ANALYSES-LEC INACTIVE AS

Pace Project No.: 60380763

Sample: MW-39-091621	Lab ID: 60380763003	Collected: 09/16/21 09:45	Received: 09/17/21 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								
Calcium, Total Recoverable	625	mg/L	0.20	1	09/27/21 12:40	10/02/21 01:41	7440-70-2	
Iron, Total Recoverable	0.83	mg/L	0.050	1	09/27/21 12:40	10/02/21 01:41	7439-89-6	
Magnesium, Total Recoverable	59.1	mg/L	0.050	1	09/27/21 12:40	10/02/21 01:41	7439-95-4	
Manganese, Total Recoverable	3.2	mg/L	0.0050	1	09/27/21 12:40	10/02/21 01:41	7439-96-5	
Potassium, Total Recoverable	26.0	mg/L	0.50	1	09/27/21 12:40	10/02/21 01:41	7440-09-7	
Sodium, Total Recoverable	365	mg/L	0.50	1	09/27/21 12:40	10/02/21 01:41	7440-23-5	
Total Hardness by 2340B, Total Recoverable	1800	mg/L	0.50	1	09/27/21 12:40	10/02/21 01:41		
200.7 Metals, Dissolved								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Arsenic, Dissolved	0.014	mg/L	0.010	1	09/24/21 16:10	10/02/21 00:45	7440-38-2	
Iron, Dissolved	0.81	mg/L	0.050	1	09/24/21 16:10	10/02/21 00:45	7439-89-6	
Lithium, Dissolved	0.034	mg/L	0.010	1	09/24/21 16:10	10/02/21 00:45	7439-93-2	
Manganese, Dissolved	3.2	mg/L	0.0050	1	09/24/21 16:10	10/02/21 00:45	7439-96-5	
Molybdenum, Dissolved	0.22	mg/L	0.020	1	09/24/21 16:10	10/02/21 00:45	7439-98-7	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Kansas City								
Alkalinity,Bicarbonate (CaCO3)	286	mg/L	20.0	1		09/23/21 16:40		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	20.0	1		09/23/21 16:40		
Iron, Ferrous								
Analytical Method: SM 3500-Fe B#4								
Pace Analytical Services - Kansas City								
Iron, Ferrous	<0.20	mg/L	0.20	1		09/23/21 15:35		H6
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0								
Pace Analytical Services - Kansas City								
Chloride	312	mg/L	20.0	20		09/24/21 04:31	16887-00-6	
Sulfate	1560	mg/L	200	200		09/24/21 19:27	14808-79-8	
5310C Diss. Organic Carbon LF								
Analytical Method: SM 5310C								
Pace Analytical Services - Kansas City								
Dissolved Organic Carbon	1.4	mg/L	1.0	1		09/24/21 11:54		
Total Organic Carbon								
Analytical Method: EPA 9060								
Pace Analytical Services - Kansas City								
Total Organic Carbon	1.5	mg/L	1.0	1		09/27/21 14:44	7440-44-0	
Total Organic Carbon	2.2	mg/L	1.0	1		09/27/21 14:44	7440-44-0	
Total Organic Carbon	2.2	mg/L	1.0	1		09/27/21 14:44	7440-44-0	
Total Organic Carbon	2.3	mg/L	1.0	1		09/27/21 14:44	7440-44-0	
Mean Total Organic Carbon	2.1	mg/L	1.0	1		09/27/21 14:44	7440-44-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: ADDTL ANALYSES-LEC INACTIVE AS

Pace Project No.: 60380763

Sample: MW-40-091621	Lab ID: 60380763004	Collected: 09/16/21 10:10	Received: 09/17/21 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								
Calcium, Total Recoverable	496	mg/L	0.20	1	09/27/21 12:40	10/02/21 01:44	7440-70-2	
Iron, Total Recoverable	7.4	mg/L	0.050	1	09/27/21 12:40	10/02/21 01:44	7439-89-6	
Magnesium, Total Recoverable	44.9	mg/L	0.050	1	09/27/21 12:40	10/02/21 01:44	7439-95-4	
Manganese, Total Recoverable	2.5	mg/L	0.0050	1	09/27/21 12:40	10/02/21 01:44	7439-96-5	
Potassium, Total Recoverable	22.6	mg/L	0.50	1	09/27/21 12:40	10/02/21 01:44	7440-09-7	
Sodium, Total Recoverable	266	mg/L	0.50	1	09/27/21 12:40	10/02/21 01:44	7440-23-5	
Total Hardness by 2340B, Total Recoverable	1420	mg/L	0.50	1	09/27/21 12:40	10/02/21 01:44		
200.7 Metals, Dissolved								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Arsenic, Dissolved	0.025	mg/L	0.010	1	09/24/21 16:10	10/02/21 00:48	7440-38-2	
Iron, Dissolved	6.4	mg/L	0.050	1	09/24/21 16:10	10/02/21 00:48	7439-89-6	
Lithium, Dissolved	0.041	mg/L	0.010	1	09/24/21 16:10	10/02/21 00:48	7439-93-2	
Manganese, Dissolved	2.5	mg/L	0.0050	1	09/24/21 16:10	10/02/21 00:48	7439-96-5	
Molybdenum, Dissolved	0.071	mg/L	0.020	1	09/24/21 16:10	10/02/21 00:48	7439-98-7	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Kansas City								
Alkalinity,Bicarbonate (CaCO3)	172	mg/L	20.0	1		09/23/21 16:49		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	20.0	1		09/23/21 16:49		
Iron, Ferrous								
Analytical Method: SM 3500-Fe B#4								
Pace Analytical Services - Kansas City								
Iron, Ferrous	<0.20	mg/L	0.20	1		09/27/21 15:43		H6
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0								
Pace Analytical Services - Kansas City								
Chloride	269	mg/L	20.0	20		09/24/21 05:45	16887-00-6	
Sulfate	1260	mg/L	200	200		09/24/21 20:02	14808-79-8	
5310C Diss. Organic Carbon LF								
Analytical Method: SM 5310C								
Pace Analytical Services - Kansas City								
Dissolved Organic Carbon	1.0	mg/L	1.0	1		09/24/21 12:07		
Total Organic Carbon								
Analytical Method: EPA 9060								
Pace Analytical Services - Kansas City								
Total Organic Carbon	1.5	mg/L	1.0	1		09/27/21 15:15	7440-44-0	
Total Organic Carbon	2.0	mg/L	1.0	1		09/27/21 15:15	7440-44-0	
Total Organic Carbon	2.0	mg/L	1.0	1		09/27/21 15:15	7440-44-0	
Total Organic Carbon	2.0	mg/L	1.0	1		09/27/21 15:15	7440-44-0	
Mean Total Organic Carbon	1.9	mg/L	1.0	1		09/27/21 15:15	7440-44-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: ADDTL ANALYSES-LEC INACTIVE AS

Pace Project No.: 60380763

Sample: MW-k-091621	Lab ID: 60380763005	Collected: 09/16/21 12:30	Received: 09/17/21 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								
Calcium, Total Recoverable	408	mg/L	0.20	1	09/27/21 12:40	10/02/21 01:46	7440-70-2	
Iron, Total Recoverable	5.3	mg/L	0.050	1	09/27/21 12:40	10/02/21 01:46	7439-89-6	
Magnesium, Total Recoverable	126	mg/L	0.050	1	09/27/21 12:40	10/02/21 01:46	7439-95-4	
Manganese, Total Recoverable	2.0	mg/L	0.0050	1	09/27/21 12:40	10/02/21 01:46	7439-96-5	
Potassium, Total Recoverable	44.7	mg/L	0.50	1	09/27/21 12:40	10/02/21 01:46	7440-09-7	
Sodium, Total Recoverable	432	mg/L	0.50	1	09/27/21 12:40	10/02/21 01:46	7440-23-5	
Total Hardness by 2340B, Total Recoverable	1540	mg/L	0.50	1	09/27/21 12:40	10/02/21 01:46		
200.7 Metals, Dissolved								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Arsenic, Dissolved	0.076	mg/L	0.010	1	09/24/21 16:10	10/02/21 00:50	7440-38-2	
Iron, Dissolved	4.6	mg/L	0.050	1	09/24/21 16:10	10/02/21 00:50	7439-89-6	
Lithium, Dissolved	0.064	mg/L	0.010	1	09/24/21 16:10	10/02/21 00:50	7439-93-2	
Manganese, Dissolved	2.1	mg/L	0.0050	1	09/24/21 16:10	10/02/21 00:50	7439-96-5	
Molybdenum, Dissolved	0.032	mg/L	0.020	1	09/24/21 16:10	10/02/21 00:50	7439-98-7	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Kansas City								
Alkalinity,Bicarbonate (CaCO3)	283	mg/L	20.0	1		09/23/21 16:55		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	20.0	1		09/23/21 16:55		
Iron, Ferrous								
Analytical Method: SM 3500-Fe B#4								
Pace Analytical Services - Kansas City								
Iron, Ferrous	0.26	mg/L	0.20	1		09/27/21 15:45		H6
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0								
Pace Analytical Services - Kansas City								
Chloride	383	mg/L	50.0	50		09/24/21 20:14	16887-00-6	
Sulfate	1330	mg/L	200	200		09/24/21 20:26	14808-79-8	
5310C Diss. Organic Carbon LF								
Analytical Method: SM 5310C								
Pace Analytical Services - Kansas City								
Dissolved Organic Carbon	1.7	mg/L	1.0	1		09/24/21 12:20		
Total Organic Carbon								
Analytical Method: EPA 9060								
Pace Analytical Services - Kansas City								
Total Organic Carbon	2.1	mg/L	1.0	1		09/27/21 15:47	7440-44-0	
Total Organic Carbon	2.8	mg/L	1.0	1		09/27/21 15:47	7440-44-0	
Total Organic Carbon	3.0	mg/L	1.0	1		09/27/21 15:47	7440-44-0	
Total Organic Carbon	3.0	mg/L	1.0	1		09/27/21 15:47	7440-44-0	
Mean Total Organic Carbon	2.7	mg/L	1.0	1		09/27/21 15:47	7440-44-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: ADDTL ANALYSES-LEC INACTIVE AS

Pace Project No.: 60380763

Sample: MW-L-091621	Lab ID: 60380763006	Collected: 09/16/21 13:20	Received: 09/17/21 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								
Calcium, Total Recoverable	591	mg/L	0.20	1	09/27/21 12:40	10/02/21 01:49	7440-70-2	
Iron, Total Recoverable	11.6	mg/L	0.050	1	09/27/21 12:40	10/02/21 01:49	7439-89-6	
Magnesium, Total Recoverable	182	mg/L	0.050	1	09/27/21 12:40	10/02/21 01:49	7439-95-4	
Manganese, Total Recoverable	4.7	mg/L	0.0050	1	09/27/21 12:40	10/02/21 01:49	7439-96-5	
Potassium, Total Recoverable	34.7	mg/L	0.50	1	09/27/21 12:40	10/02/21 01:49	7440-09-7	
Sodium, Total Recoverable	486	mg/L	0.50	1	09/27/21 12:40	10/02/21 01:49	7440-23-5	
Total Hardness by 2340B, Total Recoverable	2230	mg/L	0.50	1	09/27/21 12:40	10/02/21 01:49		
200.7 Metals, Dissolved								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Arsenic, Dissolved	0.030	mg/L	0.010	1	09/24/21 16:10	10/02/21 00:53	7440-38-2	
Iron, Dissolved	8.5	mg/L	0.050	1	09/24/21 16:10	10/02/21 00:53	7439-89-6	
Lithium, Dissolved	0.078	mg/L	0.010	1	09/24/21 16:10	10/02/21 00:53	7439-93-2	
Manganese, Dissolved	4.6	mg/L	0.0050	1	09/24/21 16:10	10/02/21 00:53	7439-96-5	
Molybdenum, Dissolved	0.040	mg/L	0.020	1	09/24/21 16:10	10/02/21 00:53	7439-98-7	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Kansas City								
Alkalinity,Bicarbonate (CaCO3)	238	mg/L	20.0	1		09/23/21 17:00		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	20.0	1		09/23/21 17:00		
Iron, Ferrous								
Analytical Method: SM 3500-Fe B#4								
Pace Analytical Services - Kansas City								
Iron, Ferrous	1.0	mg/L	0.20	1		09/27/21 15:45		H6
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0								
Pace Analytical Services - Kansas City								
Chloride	557	mg/L	100	100		09/24/21 20:38	16887-00-6	
Sulfate	1860	mg/L	100	100		09/24/21 20:38	14808-79-8	
5310C Diss. Organic Carbon LF								
Analytical Method: SM 5310C								
Pace Analytical Services - Kansas City								
Dissolved Organic Carbon	1.6	mg/L	1.0	1		09/24/21 12:33		
Total Organic Carbon								
Analytical Method: EPA 9060								
Pace Analytical Services - Kansas City								
Total Organic Carbon	1.9	mg/L	1.0	1		09/27/21 16:47	7440-44-0	
Total Organic Carbon	2.6	mg/L	1.0	1		09/27/21 16:47	7440-44-0	
Total Organic Carbon	2.6	mg/L	1.0	1		09/27/21 16:47	7440-44-0	
Total Organic Carbon	2.6	mg/L	1.0	1		09/27/21 16:47	7440-44-0	
Mean Total Organic Carbon	2.4	mg/L	1.0	1		09/27/21 16:47	7440-44-0	

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ANALYTICAL RESULTS

Project: ADDTL ANALYSES-LEC INACTIVE AS

Pace Project No.: 60380763

Sample: LEC-AP-DUP-091621	Lab ID: 60380763007	Collected: 09/16/21 09:45	Received: 09/17/21 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								
Calcium, Total Recoverable	561	mg/L	0.20	1	09/27/21 12:40	10/02/21 01:51	7440-70-2	
Iron, Total Recoverable	0.75	mg/L	0.050	1	09/27/21 12:40	10/02/21 01:51	7439-89-6	
Magnesium, Total Recoverable	53.5	mg/L	0.050	1	09/27/21 12:40	10/02/21 01:51	7439-95-4	
Manganese, Total Recoverable	2.9	mg/L	0.0050	1	09/27/21 12:40	10/02/21 01:51	7439-96-5	
Potassium, Total Recoverable	23.9	mg/L	0.50	1	09/27/21 12:40	10/02/21 01:51	7440-09-7	
Sodium, Total Recoverable	328	mg/L	0.50	1	09/27/21 12:40	10/02/21 01:51	7440-23-5	
Total Hardness by 2340B, Total Recoverable	1620	mg/L	0.50	1	09/27/21 12:40	10/02/21 01:51		
200.7 Metals, Dissolved								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Arsenic, Dissolved	0.016	mg/L	0.010	1	09/24/21 16:10	10/02/21 00:55	7440-38-2	
Iron, Dissolved	0.76	mg/L	0.050	1	09/24/21 16:10	10/02/21 00:55	7439-89-6	
Lithium, Dissolved	0.029	mg/L	0.010	1	09/24/21 16:10	10/02/21 00:55	7439-93-2	
Manganese, Dissolved	3.0	mg/L	0.0050	1	09/24/21 16:10	10/02/21 00:55	7439-96-5	
Molybdenum, Dissolved	0.21	mg/L	0.020	1	09/24/21 16:10	10/02/21 00:55	7439-98-7	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Kansas City								
Alkalinity,Bicarbonate (CaCO3)	303	mg/L	20.0	1		09/23/21 17:05		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	20.0	1		09/23/21 17:05		
Iron, Ferrous								
Analytical Method: SM 3500-Fe B#4								
Pace Analytical Services - Kansas City								
Iron, Ferrous	<0.20	mg/L	0.20	1		09/23/21 15:35		H6
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0								
Pace Analytical Services - Kansas City								
Chloride	312	mg/L	20.0	20		09/24/21 07:35	16887-00-6	
Sulfate	1540	mg/L	200	200		09/24/21 21:01	14808-79-8	
5310C Diss. Organic Carbon LF								
Analytical Method: SM 5310C								
Pace Analytical Services - Kansas City								
Dissolved Organic Carbon	1.3	mg/L	1.0	1		09/24/21 13:13		
Total Organic Carbon								
Analytical Method: EPA 9060								
Pace Analytical Services - Kansas City								
Total Organic Carbon	1.4	mg/L	1.0	1		09/27/21 17:19	7440-44-0	
Total Organic Carbon	1.9	mg/L	1.0	1		09/27/21 17:19	7440-44-0	
Total Organic Carbon	1.9	mg/L	1.0	1		09/27/21 17:19	7440-44-0	
Total Organic Carbon	2.1	mg/L	1.0	1		09/27/21 17:19	7440-44-0	
Mean Total Organic Carbon	1.8	mg/L	1.0	1		09/27/21 17:19	7440-44-0	

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QUALITY CONTROL DATA

Project: ADDTL ANALYSES-LEC INACTIVE AS

Pace Project No.: 60380763

QC Batch: 745518 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: 60380763001, 60380763002, 60380763003, 60380763004, 60380763005, 60380763006, 60380763007

METHOD BLANK: 2986179 Matrix: Water
 Associated Lab Samples: 60380763001, 60380763002, 60380763003, 60380763004, 60380763005, 60380763006, 60380763007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Calcium	mg/L	<0.20	0.20	10/02/21 01:19	
Hardness, Total(SM 2340B)	mg/L	<0.50	0.50	10/02/21 01:19	
Iron	mg/L	<0.050	0.050	10/02/21 01:19	
Magnesium	mg/L	<0.050	0.050	10/02/21 01:19	
Manganese	mg/L	<0.0050	0.0050	10/02/21 01:19	
Potassium	mg/L	<0.50	0.50	10/02/21 01:19	
Sodium	mg/L	<0.50	0.50	10/02/21 01:19	

LABORATORY CONTROL SAMPLE: 2986180

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	10	11.0	110	85-115	
Hardness, Total(SM 2340B)	mg/L	66.2	71.5	108	85-115	
Iron	mg/L	10	11.0	110	85-115	
Magnesium	mg/L	10	10.7	107	85-115	
Manganese	mg/L	1	1.1	106	85-115	
Potassium	mg/L	10	10.7	107	85-115	
Sodium	mg/L	10	10.4	104	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2986181 2986182

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		60380763001 Result	Spike Conc.	Spike Conc.	Result						
Calcium	mg/L	235	10	10	249	257	136	214	70-130	3	20 M1
Hardness, Total(SM 2340B)	mg/L	681	66.2	66.2	761	783	120	155	70-130	3	20
Iron	mg/L	3.2	10	10	14.1	14.4	108	112	70-130	2	20
Magnesium	mg/L	22.6	10	10	33.7	34.5	111	119	70-130	2	20
Manganese	mg/L	1.2	1	1	2.3	2.3	105	110	70-130	2	20
Potassium	mg/L	8.6	10	10	19.5	19.9	109	113	70-130	2	20
Sodium	mg/L	81.1	10	10	93.4	95.4	124	144	70-130	2	20 M1

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: ADDTL ANALYSES-LEC INACTIVE AS

Pace Project No.: 60380763

QC Batch:	745520	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: 60380763001, 60380763002, 60380763003, 60380763004, 60380763005, 60380763006, 60380763007

METHOD BLANK:	2986184	Matrix:	Water
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Associated Lab Samples: 60380763001, 60380763002, 60380763003, 60380763004, 60380763005, 60380763006, 60380763007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic, Dissolved	mg/L	<0.010	0.010	10/01/21 23:51	
Iron, Dissolved	mg/L	<0.050	0.050	10/02/21 21:36	
Lithium, Dissolved	mg/L	<0.010	0.010	10/01/21 23:51	
Manganese, Dissolved	mg/L	<0.0050	0.0050	10/01/21 23:51	
Molybdenum, Dissolved	mg/L	<0.020	0.020	10/01/21 23:51	

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic, Dissolved	mg/L	1	1.0	102	85-115	
Iron, Dissolved	mg/L	10	10.4	104	85-115	
Lithium, Dissolved	mg/L	1	1.0	104	85-115	
Manganese, Dissolved	mg/L	1	1.1	106	85-115	
Molybdenum, Dissolved	mg/L	1	1.1	109	85-115	

Parameter	Units	2986186		2986187		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		60380536001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Arsenic, Dissolved	mg/L	<0.010	1	1	1.0	1.1	105	106	70-130	1	20
Iron, Dissolved	mg/L	<0.050	10	10	10.1	11.0	100	110	70-130	9	20
Lithium, Dissolved	mg/L	0.021	1	1	1.1	1.1	106	108	70-130	2	20
Manganese, Dissolved	mg/L	0.38	1	1	1.4	1.4	100	103	70-130	2	20
Molybdenum, Dissolved	mg/L	<0.020	1	1	1.1	1.1	108	111	70-130	2	20

Parameter	Units	2986188		Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
		60380763002 Result	MS Spike Conc.					
Arsenic, Dissolved	mg/L		0.020	1	1.1	104	70-130	
Iron, Dissolved	mg/L		1.8	10	14.0	122	70-130	
Lithium, Dissolved	mg/L		0.061	1	1.1	101	70-130	
Manganese, Dissolved	mg/L		0.51	1	2.2	171	70-130	M1
Molybdenum, Dissolved	mg/L		0.065	1	1.2	112	70-130	

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QUALITY CONTROL DATA

Project: ADDTL ANALYSES-LEC INACTIVE AS

Pace Project No.: 60380763

QC Batch:	745180	Analysis Method:	SM 2320B
QC Batch Method:	SM 2320B	Analysis Description:	2320B Alkalinity
		Laboratory:	Pace Analytical Services - Kansas City

Associated Lab Samples: 60380763001, 60380763002, 60380763003, 60380763004, 60380763005, 60380763006, 60380763007

METHOD BLANK: 2984998 Matrix: Water

Associated Lab Samples: 60380763001, 60380763002, 60380763003, 60380763004, 60380763005, 60380763006, 60380763007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	20.0	09/23/21 15:21	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	20.0	09/23/21 15:21	

SAMPLE DUPLICATE: 2985000

Parameter	Units	60380567005 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity,Bicarbonate (CaCO3)	mg/L	101	92.1	10	10	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	ND		10	

SAMPLE DUPLICATE: 2985001

Parameter	Units	60380763003 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity,Bicarbonate (CaCO3)	mg/L	286	289	1	10	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	ND		10	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: ADDTL ANALYSES-LEC INACTIVE AS

Pace Project No.: 60380763

QC Batch:	744613	Analysis Method:	SM 3500-Fe B#4
QC Batch Method:	SM 3500-Fe B#4	Analysis Description:	Iron, Ferrous
		Laboratory:	Pace Analytical Services - Kansas City

Associated Lab Samples: 60380763001, 60380763003, 60380763007

METHOD BLANK: 2983036 Matrix: Water

Associated Lab Samples: 60380763001, 60380763003, 60380763007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron, Ferrous	mg/L	<0.20	0.20	09/23/21 15:29	H6

LABORATORY CONTROL SAMPLE: 2983037

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Ferrous	mg/L	2	2.2	108	90-110	H6

SAMPLE DUPLICATE: 2983038

Parameter	Units	60380536004 Result	Dup Result	RPD	Max RPD	Qualifiers
Iron, Ferrous	mg/L	<0.20	<0.20		20	H6

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QUALITY CONTROL DATA

Project: ADDTL ANALYSES-LEC INACTIVE AS

Pace Project No.: 60380763

QC Batch: 745803	Analysis Method: SM 3500-Fe B#4
QC Batch Method: SM 3500-Fe B#4	Analysis Description: Iron, Ferrous
	Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60380763002, 60380763004, 60380763005, 60380763006

METHOD BLANK: 2987614 Matrix: Water
Associated Lab Samples: 60380763002, 60380763004, 60380763005, 60380763006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron, Ferrous	mg/L	<0.20	0.20	09/27/21 15:40	H6

LABORATORY CONTROL SAMPLE: 2987615

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Ferrous	mg/L	2	2.0	98	90-110	H6

SAMPLE DUPLICATE: 2987616

Parameter	Units	60380676002 Result	Dup Result	RPD	Max RPD	Qualifiers
Iron, Ferrous	mg/L	0.28	0.29	4	20	H6

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QUALITY CONTROL DATA

Project: ADDTL ANALYSES-LEC INACTIVE AS

Pace Project No.: 60380763

QC Batch: 745151

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: 60380763001, 60380763002, 60380763003, 60380763004, 60380763005, 60380763006, 60380763007

METHOD BLANK: 2984845

Matrix: Water

Associated Lab Samples: 60380763001, 60380763002, 60380763003, 60380763004, 60380763005, 60380763006, 60380763007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<1.0	1.0	09/23/21 08:20	
Sulfate	mg/L	<1.0	1.0	09/23/21 08:20	

METHOD BLANK: 2987551

Matrix: Water

Associated Lab Samples: 60380763001, 60380763002, 60380763003, 60380763004, 60380763005, 60380763006, 60380763007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<1.0	1.0	09/24/21 08:25	
Sulfate	mg/L	<1.0	1.0	09/24/21 08:25	

LABORATORY CONTROL SAMPLE: 2984846

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	5.4	107	90-110	
Sulfate	mg/L	5	5.5	109	90-110	

LABORATORY CONTROL SAMPLE: 2987552

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.7	94	90-110	
Sulfate	mg/L	5	4.9	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2984847 2984848

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		60380635004	Result	Spike Conc.	Spike Conc.						
Chloride	mg/L	5380	5000	5000	10300	10400	98	99	80-120	1	15
Sulfate	mg/L	561	250	250	900	859	136	119	80-120	5	15 M1

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QUALITY CONTROL DATA

Project: ADDTL ANALYSES-LEC INACTIVE AS

Pace Project No.: 60380763

MATRIX SPIKE SAMPLE:		2984849					
Parameter	Units	60380682005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	369	250	613	98	80-120	
Sulfate	mg/L	1330	1000	2270	94	80-120	

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QUALITY CONTROL DATA

Project: ADDTL ANALYSES-LEC INACTIVE AS

Pace Project No.: 60380763

QC Batch:	745411	Analysis Method:	SM 5310C
QC Batch Method:	SM 5310C	Analysis Description:	5310C Dissolved Organic Carbon
		Laboratory:	Pace Analytical Services - Kansas City

Associated Lab Samples: 60380763001, 60380763002, 60380763003, 60380763004, 60380763005, 60380763006, 60380763007

METHOD BLANK: 2985770 Matrix: Water
Associated Lab Samples: 60380763001, 60380763002, 60380763003, 60380763004, 60380763005, 60380763006, 60380763007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dissolved Organic Carbon	mg/L	<1.0	1.0	09/24/21 09:51	

LABORATORY CONTROL SAMPLE: 2985771

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	5	5.0	101	80-120	

MATRIX SPIKE SAMPLE: 2985768

Parameter	Units	60380763001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	2.5	5	7.9	107	80-120	

SAMPLE DUPLICATE: 2985769

Parameter	Units	60380763001 Result	Dup Result	RPD	Max RPD	Qualifiers
Dissolved Organic Carbon	mg/L	2.5	2.7	6	25	

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QUALITY CONTROL DATA

Project: ADDTL ANALYSES-LEC INACTIVE AS
Pace Project No.: 60380763

QC Batch: 745660	Analysis Method: EPA 9060
QC Batch Method: EPA 9060	Analysis Description: 9060 TOC
	Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60380763001, 60380763002

METHOD BLANK: 2987027 Matrix: Water

Associated Lab Samples: 60380763001, 60380763002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mean Total Organic Carbon	mg/L	<1.0	1.0	09/28/21 10:48	
Total Organic Carbon	mg/L	<1.0	1.0	09/28/21 10:48	
Total Organic Carbon	mg/L	<1.0	1.0	09/28/21 10:48	
Total Organic Carbon	mg/L	<1.0	1.0	09/28/21 10:48	
Total Organic Carbon	mg/L	<1.0	1.0	09/28/21 10:48	

LABORATORY CONTROL SAMPLE: 2987028

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mean Total Organic Carbon	mg/L	5	5.2	104	80-120	
Total Organic Carbon	mg/L	5	5.1	101	80-120	
Total Organic Carbon	mg/L	5	5.2	105	80-120	
Total Organic Carbon	mg/L	5	5.3	105	80-120	
Total Organic Carbon	mg/L	5	5.2	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2987029 2987030

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		60380536002 Result	Spike Conc.	Spike Conc.	Result						
Mean Total Organic Carbon	mg/L	5.4	5	5	10.7	10.8	106	108	80-120	1	25
Total Organic Carbon	mg/L	5.5	5	5	10.8	10.9	107	109	80-120	1	25
Total Organic Carbon	mg/L	5.5	5	5	10.9	10.8	107	107	80-120	0	25
Total Organic Carbon	mg/L	5.2	5	5	10.3	10.6	103	109	80-120	3	25
Total Organic Carbon	mg/L	5.5	5	5	10.7	10.9	105	108	80-120	1	25

SAMPLE DUPLICATE: 2987031

Parameter	Units	60380536003 Result	Dup Result	RPD	Max RPD	Qualifiers
Mean Total Organic Carbon	mg/L	2.7	2.7	1	25	
Total Organic Carbon	mg/L	2.6	2.6	2	25	
Total Organic Carbon	mg/L	2.7	2.7	1	25	
Total Organic Carbon	mg/L	2.7	2.7	1	25	
Total Organic Carbon	mg/L	2.7	2.8	0	25	

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QUALITY CONTROL DATA

Project: ADDTL ANALYSES-LEC INACTIVE AS

Pace Project No.: 60380763

QC Batch: 745661 Analysis Method: EPA 9060
 QC Batch Method: EPA 9060 Analysis Description: 9060 TOC
 Laboratory: Pace Analytical Services - Kansas City
 Associated Lab Samples: 60380763003, 60380763004, 60380763005, 60380763006, 60380763007

METHOD BLANK: 2987034 Matrix: Water
 Associated Lab Samples: 60380763003, 60380763004, 60380763005, 60380763006, 60380763007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mean Total Organic Carbon	mg/L	<1.0	1.0	09/27/21 10:34	
Total Organic Carbon	mg/L	<1.0	1.0	09/27/21 10:34	
Total Organic Carbon	mg/L	<1.0	1.0	09/27/21 10:34	
Total Organic Carbon	mg/L	<1.0	1.0	09/27/21 10:34	
Total Organic Carbon	mg/L	<1.0	1.0	09/27/21 10:34	

LABORATORY CONTROL SAMPLE: 2987035

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mean Total Organic Carbon	mg/L	5	5.2	104	80-120	
Total Organic Carbon	mg/L	5	5.3	105	80-120	
Total Organic Carbon	mg/L	5	5.3	105	80-120	
Total Organic Carbon	mg/L	5	5.1	102	80-120	
Total Organic Carbon	mg/L	5	5.2	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2987036 2987037

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		60380676001 Result	Spike Conc.	Spike Conc.	Result						
Mean Total Organic Carbon	mg/L	2.1	5	5	6.4	6.2	88	83	80-120	4	25
Total Organic Carbon	mg/L	2.2	5	5	6.7	6.4	90	85	80-120	4	25
Total Organic Carbon	mg/L	2.3	5	5	6.7	6.5	90	85	80-120	3	25
Total Organic Carbon	mg/L	1.6	5	5	5.6	5.5	80	77	80-120	3	25 M1
Total Organic Carbon	mg/L	2.3	5	5	6.8	6.4	90	84	80-120	5	25

SAMPLE DUPLICATE: 2987038

Parameter	Units	60380536008 Result	Dup Result	RPD	Max RPD	Qualifiers
Mean Total Organic Carbon	mg/L	2.3	2.2	2	25	
Total Organic Carbon	mg/L	2.1	2.0	2	25	
Total Organic Carbon	mg/L	2.3	2.3	1	25	
Total Organic Carbon	mg/L	2.4	2.3	2	25	
Total Organic Carbon	mg/L	2.3	2.3	1	25	

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: ADDTL ANALYSES-LEC INACTIVE AS

Pace Project No.: 60380763

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.

WORKORDER QUALIFIERS

WO: 60380763

[1] REV. 1

[2] Changed reportable units

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.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: ADDTL ANALYSES-LEC INACTIVE AS

Pace Project No.: 60380763

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60380763001	MW-37-091621	EPA 200.7	745518	EPA 200.7	745835
60380763002	MW-38-091621	EPA 200.7	745518	EPA 200.7	745835
60380763003	MW-39-091621	EPA 200.7	745518	EPA 200.7	745835
60380763004	MW-40-091621	EPA 200.7	745518	EPA 200.7	745835
60380763005	MW-k-091621	EPA 200.7	745518	EPA 200.7	745835
60380763006	MW-L-091621	EPA 200.7	745518	EPA 200.7	745835
60380763007	LEC-AP-DUP-091621	EPA 200.7	745518	EPA 200.7	745835
60380763001	MW-37-091621	EPA 200.7	745520	EPA 200.7	745584
60380763002	MW-38-091621	EPA 200.7	745520	EPA 200.7	745584
60380763003	MW-39-091621	EPA 200.7	745520	EPA 200.7	745584
60380763004	MW-40-091621	EPA 200.7	745520	EPA 200.7	745584
60380763005	MW-k-091621	EPA 200.7	745520	EPA 200.7	745584
60380763006	MW-L-091621	EPA 200.7	745520	EPA 200.7	745584
60380763007	LEC-AP-DUP-091621	EPA 200.7	745520	EPA 200.7	745584
60380763001	MW-37-091621	SM 2320B	745180		
60380763002	MW-38-091621	SM 2320B	745180		
60380763003	MW-39-091621	SM 2320B	745180		
60380763004	MW-40-091621	SM 2320B	745180		
60380763005	MW-k-091621	SM 2320B	745180		
60380763006	MW-L-091621	SM 2320B	745180		
60380763007	LEC-AP-DUP-091621	SM 2320B	745180		
60380763001	MW-37-091621	SM 3500-Fe B#4	744613		
60380763002	MW-38-091621	SM 3500-Fe B#4	745803		
60380763003	MW-39-091621	SM 3500-Fe B#4	744613		
60380763004	MW-40-091621	SM 3500-Fe B#4	745803		
60380763005	MW-k-091621	SM 3500-Fe B#4	745803		
60380763006	MW-L-091621	SM 3500-Fe B#4	745803		
60380763007	LEC-AP-DUP-091621	SM 3500-Fe B#4	744613		
60380763001	MW-37-091621	EPA 300.0	745151		
60380763002	MW-38-091621	EPA 300.0	745151		
60380763003	MW-39-091621	EPA 300.0	745151		
60380763004	MW-40-091621	EPA 300.0	745151		
60380763005	MW-k-091621	EPA 300.0	745151		
60380763006	MW-L-091621	EPA 300.0	745151		
60380763007	LEC-AP-DUP-091621	EPA 300.0	745151		
60380763001	MW-37-091621	SM 5310C	745411		
60380763002	MW-38-091621	SM 5310C	745411		
60380763003	MW-39-091621	SM 5310C	745411		
60380763004	MW-40-091621	SM 5310C	745411		
60380763005	MW-k-091621	SM 5310C	745411		
60380763006	MW-L-091621	SM 5310C	745411		
60380763007	LEC-AP-DUP-091621	SM 5310C	745411		
60380763001	MW-37-091621	EPA 9060	745660		
60380763002	MW-38-091621	EPA 9060	745660		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: ADDTL ANALYSES-LEC INACTIVE AS

Pace Project No.: 60380763

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60380763003	MW-39-091621	EPA 9060	745661		
60380763004	MW-40-091621	EPA 9060	745661		
60380763005	MW-k-091621	EPA 9060	745661		
60380763006	MW-L-091621	EPA 9060	745661		
60380763007	LEC-AP-DUP-091621	EPA 9060	745661		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

WO#: 60380763



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-296 Type of Ice Wet Blue None

Cooler Temperature (°C): As-read 4.7/3.7 Corr. Factor -0.3 Corrected 4.3/3.4
Temperature should be above freezing to 6°C 7.6 4.4

Date and initials of person examining contents: 1/21/21

Chain of Custody present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Chain of Custody relinquished:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Samples arrived within holding time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Short Hold Time analyses (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<u>Feet</u>
Rush Turn Around Time requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<u>Did not receive sulfide volume for all samples.</u>
Correct containers used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Unpreserved 5035A / TX1005/1006 soils frozen in 48hrs?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Filtered volume received for dissolved tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Sample labels match COC: Date / time / ID / analyses	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Samples contain multiple phases? Matrix: <u>WT</u>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> 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# <u>603145</u>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> 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)	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Potassium iodide test strip turns blue/purple? (Preserve)	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Trip Blank present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Headspace in VOA vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Samples from USDA Regulated Area: State: _____	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Additional labels attached to 5035A / TX1005 vials in the field?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> 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: _____

November 17, 2021

Melissa Michels
Evergy, Inc.
818 Kansas Avenue
Topeka, KS 66612

RE: Project: LEC PERIMETER ASH POND WELLS C
Pace Project No.: 60380803

Dear Melissa Michels:

Enclosed are the analytical results for sample(s) received by the laboratory on September 20, 2021. 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

REV-1, 11/17/21: Metals lists corrected.

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

Sincerely,



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

Enclosures

cc: Andrew Hare, Evergy, Inc.
Laura Hines, Evergy, Inc.
Jake Humphrey, Evergy, Inc.
Tabitha Hylton, Evergy Kansas Central, Inc. Lawrence
Energy Center
Samantha Kaney, Haley & Aldrich
Jared Morrison, Evergy, Inc.
Danielle Oberbroeckling, Haley & Aldrich
Melanie Sataneck, Haley & Aldrich, Inc.



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60380803

Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601

ANAB DOD-ELAP Rad Accreditation #: L2417

Alabama Certification #: 41590

Arizona Certification #: AZ0734

Arkansas Certification

California Certification #: 04222CA

Colorado Certification #: PA01547

Connecticut Certification #: PH-0694

Delaware Certification

EPA Region 4 DW Rad

Florida/TNI Certification #: E87683

Georgia Certification #: C040

Florida: Cert E871149 SEKS WET

Guam Certification

Hawaii Certification

Idaho Certification

Illinois Certification

Indiana Certification

Iowa Certification #: 391

Kansas/TNI Certification #: E-10358

Kentucky Certification #: KY90133

KY WW Permit #: KY0098221

KY WW Permit #: KY0000221

Louisiana DHH/TNI Certification #: LA180012

Louisiana DEQ/TNI Certification #: 4086

Maine Certification #: 2017020

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 #: PA014572018-1

New Hampshire/TNI Certification #: 297617

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 #: PA200002-010

Pennsylvania/TNI Certification #: 65-00282

Puerto Rico Certification #: PA01457

Rhode Island Certification #: 65-00282

South Dakota Certification

Tennessee Certification #: 02867

Texas/TNI Certification #: T104704188-17-3

Utah/TNI Certification #: PA014572017-9

USDA Soil Permit #: P330-17-00091

Vermont Dept. of Health: ID# VT-0282

Virgin Island/PADEP Certification

Virginia/VELAP Certification #: 9526

Washington Certification #: C868

West Virginia DEP Certification #: 143

West Virginia DHHR Certification #: 9964C

Wisconsin Approve List for Rad

Wyoming Certification #: 8TMS-L

Pace Analytical Services Kansas

9608 Loiret Boulevard, Lenexa, KS 66219

Missouri Inorganic Drinking Water Certification #: 10090

Arkansas Drinking Water

Arkansas Certification #: 20-020-0

Arkansas Drinking Water

Illinois Certification #: 2000302021-3

Iowa Certification #: 118

Kansas/NELAP Certification #: E-10116

Louisiana Certification #: 03055

Nevada Certification #: KS000212020-2

Oklahoma Certification #: 9205/9935

Florida: Cert E871149 SEKS WET

Texas Certification #: T104704407-19-12

Utah Certification #: KS000212019-9

Illinois Certification #: 004592

Kansas Field Laboratory Accreditation: # E-92587

Missouri SEKS Micro Certification: 10070

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60380803

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60380803001	MW-A-091721	Water	09/17/21 17:10	09/20/21 12:30
60380803002	MW-101-091721	Water	09/17/21 09:00	09/20/21 12:30
60380803003	MW-106-091721	Water	09/17/21 14:00	09/20/21 12:30
60380803004	MW-107-091721	Water	09/17/21 12:40	09/20/21 12:30
60380803005	MW-108-091721	Water	09/17/21 10:25	09/20/21 12:30
60380803006	MW-109-091721	Water	09/17/21 14:10	09/20/21 12:30
60380803007	MW-110-091721	Water	09/17/21 15:30	09/20/21 12:30
60380803008	MW-112-091721	Water	09/17/21 17:25	09/20/21 12:30
60380803009	MW-113-091721	Water	09/17/21 15:55	09/20/21 12:30
60380803010	LEC-CMA-DUP02-091721	Water	09/17/21 10:25	09/20/21 12:30
60380803011	EB-091721	Water	09/17/21 18:30	09/20/21 12:30

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60380803

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60380803001	MW-A-091721	EPA 200.7	JLH	9	PASI-K
		EPA 200.7	JLH	5	PASI-K
		EPA 6010	MRV	1	PASI-K
		EPA 200.8	JGP	3	PASI-K
		EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
		SM 2320B	KB	2	PASI-K
		SM 2540C	BLA	1	PASI-K
		SM 3500-Fe B#4	AG1	1	PASI-K
		SM 4500-H+B	KB	1	PASI-K
		EPA 300.0	ALH	3	PASI-K
		SM 5310C	HM1	1	PASI-K
		EPA 9060	LDB	5	PASI-K
		60380803002	MW-101-091721	EPA 200.7	JLH
EPA 200.7	JLH			5	PASI-K
EPA 6010	MRV			1	PASI-K
EPA 200.8	JGP			3	PASI-K
EPA 903.1	MK1			1	PASI-PA
EPA 904.0	VAL			1	PASI-PA
Total Radium Calculation	RMK			1	PASI-PA
SM 2320B	KB			2	PASI-K
SM 2540C	BLA			1	PASI-K
SM 3500-Fe B#4	AG1			1	PASI-K
SM 4500-H+B	KB			1	PASI-K
EPA 300.0	ALH			3	PASI-K
SM 5310C	HM1			1	PASI-K
EPA 9060	LDB			5	PASI-K
60380803003	MW-106-091721			EPA 200.7	JLH
		EPA 200.7	JLH	5	PASI-K
		EPA 6010	MRV	1	PASI-K
		EPA 200.8	JGP	3	PASI-K
		EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
		SM 2320B	KB	2	PASI-K
		SM 2540C	BLA	1	PASI-K

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SAMPLE ANALYTE COUNT

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60380803

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory		
60380803004	MW-107-091721	SM 3500-Fe B#4	AG1	1	PASI-K		
		SM 4500-H+B	KB	1	PASI-K		
		EPA 300.0	ALH	3	PASI-K		
		SM 5310C	LDB	1	PASI-K		
		EPA 9060	LDB	5	PASI-K		
		EPA 200.7	JLH	9	PASI-K		
		EPA 200.7	JLH	5	PASI-K		
		EPA 6010	MRV	1	PASI-K		
		EPA 200.8	JGP	3	PASI-K		
		EPA 903.1	MK1	1	PASI-PA		
		EPA 904.0	VAL	1	PASI-PA		
		Total Radium Calculation	RMK	1	PASI-PA		
		SM 2320B	KB	2	PASI-K		
		SM 2540C	BLA	1	PASI-K		
		SM 3500-Fe B#4	AG1	1	PASI-K		
		SM 4500-H+B	KB	1	PASI-K		
		60380803005	MW-108-091721	EPA 300.0	ALH	3	PASI-K
SM 5310C	LDB			1	PASI-K		
EPA 9060	LDB			5	PASI-K		
EPA 200.7	JLH			9	PASI-K		
EPA 200.7	JLH			5	PASI-K		
EPA 6010	MRV			1	PASI-K		
EPA 200.8	JGP			3	PASI-K		
EPA 903.1	MK1			1	PASI-PA		
EPA 904.0	VAL			1	PASI-PA		
Total Radium Calculation	RMK			1	PASI-PA		
SM 2320B	KB			2	PASI-K		
SM 2540C	BLA			1	PASI-K		
SM 3500-Fe B#4	AG1			1	PASI-K		
SM 4500-H+B	KB			1	PASI-K		
EPA 300.0	ALH			3	PASI-K		
60380803006	MW-109-091721			SM 5310C	LDB	1	PASI-K
				EPA 9060	LDB	5	PASI-K
		EPA 200.7	JLH	9	PASI-K		
		EPA 200.7	JLH	5	PASI-K		
		EPA 6010	MRV	1	PASI-K		
		EPA 200.8	JGP	3	PASI-K		

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SAMPLE ANALYTE COUNT

Project: LEC PERIMETER ASH POND WELLS C
Pace Project No.: 60380803

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60380803007	MW-110-091721	EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
		SM 2320B	KB	2	PASI-K
		SM 2540C	BLA	1	PASI-K
		SM 3500-Fe B#4	AG1	1	PASI-K
		SM 4500-H+B	KB	1	PASI-K
		EPA 300.0	ALH	3	PASI-K
		SM 5310C	LDB	1	PASI-K
		EPA 9060	LDB	5	PASI-K
		EPA 200.7	JLH	9	PASI-K
		EPA 200.7	JLH	5	PASI-K
		EPA 6010	MRV	1	PASI-K
		EPA 200.8	JGP	3	PASI-K
		EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
		SM 2320B	KB	2	PASI-K
		SM 2540C	BLA	1	PASI-K
		SM 3500-Fe B#4	AG1	1	PASI-K
SM 4500-H+B	KB	1	PASI-K		
EPA 300.0	ALH	3	PASI-K		
SM 5310C	LDB	1	PASI-K		
EPA 9060	LDB	5	PASI-K		
60380803008	MW-112-091721	EPA 200.7	JLH	9	PASI-K
		EPA 200.7	JLH	5	PASI-K
		EPA 6010	MRV	1	PASI-K
		EPA 200.8	JGP	3	PASI-K
		EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
		SM 2320B	KB	2	PASI-K
		SM 2540C	BLA	1	PASI-K
		SM 3500-Fe B#4	AG1	1	PASI-K
		SM 4500-H+B	KB	1	PASI-K
		EPA 300.0	ALH	3	PASI-K
		SM 5310C	LDB	1	PASI-K

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SAMPLE ANALYTE COUNT

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60380803

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60380803009	MW-113-091721	EPA 9060	LDB	5	PASI-K
		EPA 200.7	JLH	9	PASI-K
		EPA 200.7	JLH	5	PASI-K
		EPA 6010	MRV	1	PASI-K
		EPA 200.8	JGP	3	PASI-K
		EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
		SM 2320B	KB	2	PASI-K
		SM 2540C	BLA	1	PASI-K
		SM 3500-Fe B#4	AG1	1	PASI-K
		SM 4500-H+B	KB	1	PASI-K
		EPA 300.0	ALH	3	PASI-K
		SM 5310C	LDB	1	PASI-K
60380803010	LEC-CMA-DUP02-091721	EPA 9060	LDB	5	PASI-K
		EPA 200.7	JLH	9	PASI-K
		EPA 200.7	JLH	5	PASI-K
		EPA 6010	MRV	1	PASI-K
		EPA 200.8	JGP	3	PASI-K
		EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
		SM 2320B	KB	2	PASI-K
		SM 2540C	BLA	1	PASI-K
		SM 3500-Fe B#4	AG1	1	PASI-K
		SM 4500-H+B	KB	1	PASI-K
		EPA 300.0	ALH	3	PASI-K
		SM 5310C	LDB	1	PASI-K
60380803011	EB-091721	EPA 9060	LDB	5	PASI-K
		EPA 200.7	JLH	9	PASI-K
		EPA 6010	MRV	1	PASI-K
		EPA 200.8	JGP	3	PASI-K

PASI-K = Pace Analytical Services - Kansas City

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60380803

Method: EPA 200.7

Description: 200.7 Metals, Total

Client: Evergy Kansas Central, Inc.

Date: November 17, 2021

General Information:

11 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: 745980

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60380634001,60380803008

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

- MS (Lab ID: 2988112)
 - Calcium
- MSD (Lab ID: 2988111)
 - Calcium

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60380803

Method: EPA 200.7

Description: 200.7 Metals, Dissolved

Client: Evergy Kansas Central, Inc.

Date: November 17, 2021

General Information:

10 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:

Analyte Comments:

QC Batch: 745981

1e: Dissolved results confirmed higher than totals by bottle check

- LEC-CMA-DUP02-091721 (Lab ID: 60380803010)
 - Lithium, Dissolved
- MW-110-091721 (Lab ID: 60380803007)
 - Lithium, Dissolved

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60380803

Method: EPA 6010

Description: 6010 MET ICP

Client: Evergy Kansas Central, Inc.

Date: November 17, 2021

General Information:

11 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:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60380803

Method: EPA 200.8

Description: 200.8 MET ICPMS

Client: Evergy Kansas Central, Inc.

Date: November 17, 2021

General Information:

11 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:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60380803

Method: EPA 903.1

Description: 903.1 Radium 226

Client: Evergy Kansas Central, Inc.

Date: November 17, 2021

General Information:

10 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:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60380803

Method: EPA 904.0

Description: 904.0 Radium 228

Client: Evergy Kansas Central, Inc.

Date: November 17, 2021

General Information:

10 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:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60380803

Method: Total Radium Calculation

Description: Total Radium 228+226

Client: Evergy Kansas Central, Inc.

Date: November 17, 2021

General Information:

10 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:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60380803

Method: SM 2320B

Description: 2320B Alkalinity

Client: Evergy Kansas Central, Inc.

Date: November 17, 2021

General Information:

10 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:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60380803

Method: SM 2540C

Description: 2540C Total Dissolved Solids

Client: Evergy Kansas Central, Inc.

Date: November 17, 2021

General Information:

10 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: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60380803

Method: SM 3500-Fe B#4

Description: Iron, Ferrous

Client: Evergy Kansas Central, Inc.

Date: November 17, 2021

General Information:

10 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.

- LEC-CMA-DUP02-091721 (Lab ID: 60380803010)
- MW-101-091721 (Lab ID: 60380803002)
- MW-106-091721 (Lab ID: 60380803003)
- MW-107-091721 (Lab ID: 60380803004)
- MW-108-091721 (Lab ID: 60380803005)
- MW-109-091721 (Lab ID: 60380803006)
- MW-110-091721 (Lab ID: 60380803007)
- MW-112-091721 (Lab ID: 60380803008)
- MW-113-091721 (Lab ID: 60380803009)
- MW-A-091721 (Lab ID: 60380803001)

Method Blank:

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

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits 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:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60380803

Method: SM 4500-H+B

Description: 4500H+ pH, Electrometric

Client: Evergy Kansas Central, Inc.

Date: November 17, 2021

General Information:

10 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.

- LEC-CMA-DUP02-091721 (Lab ID: 60380803010)
- MW-101-091721 (Lab ID: 60380803002)
- MW-106-091721 (Lab ID: 60380803003)
- MW-107-091721 (Lab ID: 60380803004)
- MW-108-091721 (Lab ID: 60380803005)
- MW-109-091721 (Lab ID: 60380803006)
- MW-110-091721 (Lab ID: 60380803007)
- MW-112-091721 (Lab ID: 60380803008)
- MW-113-091721 (Lab ID: 60380803009)
- MW-A-091721 (Lab ID: 60380803001)

Method Blank:

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

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits 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: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60380803

Method: EPA 300.0

Description: 300.0 IC Anions 28 Days

Client: Evergy Kansas Central, Inc.

Date: November 17, 2021

General Information:

10 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: 745152

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60380803002,60380851001

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

- MSD (Lab ID: 2984854)
 - Chloride
 - Fluoride
 - Sulfate

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60380803

Method: SM 5310C

Description: 5310C Diss. Organic Carbon LF

Client: Evergy Kansas Central, Inc.

Date: November 17, 2021

General Information:

10 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:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60380803

Method: EPA 9060

Description: Total Organic Carbon

Client: Evergy Kansas Central, Inc.

Date: November 17, 2021

General Information:

10 samples were analyzed for EPA 9060 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.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60380803

Sample: MW-A-091721	Lab ID: 60380803001	Collected: 09/17/21 17:10	Received: 09/20/21 12:30	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	09/28/21 12:00	09/29/21 16:46	7440-39-3	
Boron, Total Recoverable	0.63	mg/L	0.10	1	09/28/21 12:00	09/29/21 16:46	7440-42-8	
Calcium, Total Recoverable	167	mg/L	0.20	1	09/28/21 12:00	09/29/21 16:46	7440-70-2	
Iron, Total Recoverable	5.8	mg/L	0.050	1	09/28/21 12:00	09/29/21 16:46	7439-89-6	
Magnesium, Total Recoverable	26.0	mg/L	0.050	1	09/28/21 12:00	09/29/21 16:46	7439-95-4	
Manganese, Total Recoverable	1.1	mg/L	0.0050	1	09/28/21 12:00	09/29/21 16:46	7439-96-5	
Potassium, Total Recoverable	5.8	mg/L	0.50	1	09/28/21 12:00	09/29/21 16:46	7440-09-7	
Sodium, Total Recoverable	38.6	mg/L	0.50	1	09/28/21 12:00	09/29/21 16:46	7440-23-5	
Total Hardness by 2340B, Total Recoverable	524	mg/L	0.50	1	09/28/21 12:00	09/29/21 16:46		
200.7 Metals, Dissolved								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Arsenic, Dissolved	<0.010	mg/L	0.010	1	09/28/21 12:00	09/29/21 17:40	7440-38-2	
Iron, Dissolved	4.7	mg/L	0.050	1	09/28/21 12:00	09/29/21 17:40	7439-89-6	
Lithium, Dissolved	0.013	mg/L	0.010	1	09/28/21 12:00	09/29/21 17:40	7439-93-2	
Manganese, Dissolved	1.0	mg/L	0.0050	1	09/28/21 12:00	09/29/21 17:40	7439-96-5	
Molybdenum, Dissolved	0.022	mg/L	0.020	1	09/28/21 12:00	09/29/21 17:40	7439-98-7	D9
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Total Recoverable	0.014	mg/L	0.010	1	09/24/21 16:45	09/30/21 15:24	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	0.0041	mg/L	0.0010	1	09/24/21 16:45	09/30/21 14:43	7440-38-2	
Cobalt, Total Recoverable	<0.0010	mg/L	0.0010	1	09/24/21 16:45	09/30/21 14:43	7440-48-4	
Molybdenum, Total Recoverable	0.022	mg/L	0.0010	1	09/24/21 16:45	09/30/21 14:43	7439-98-7	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Kansas City								
Alkalinity,Bicarbonate (CaCO3)	395	mg/L	20.0	1		09/27/21 11:14		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	20.0	1		09/27/21 11:14		
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Kansas City								
Total Dissolved Solids	745	mg/L	10.0	1		09/24/21 12:43		
Iron, Ferrous								
Analytical Method: SM 3500-Fe B#4								
Pace Analytical Services - Kansas City								
Iron, Ferrous	<0.20	mg/L	0.20	1		09/27/21 15:53		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		09/22/21 11:16		H6

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60380803

Sample: MW-A-091721	Lab ID: 60380803001	Collected: 09/17/21 17:10	Received: 09/20/21 12:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City						
Chloride	42.2	mg/L	10.0	10		09/28/21 11:51	16887-00-6	
Fluoride	0.34	mg/L	0.20	1		09/23/21 23:52	16984-48-8	
Sulfate	154	mg/L	10.0	10		09/28/21 11:51	14808-79-8	
5310C Diss. Organic Carbon LF		Analytical Method: SM 5310C Pace Analytical Services - Kansas City						
Dissolved Organic Carbon	2.1	mg/L	1.0	1		09/24/21 16:06		
Total Organic Carbon		Analytical Method: EPA 9060 Pace Analytical Services - Kansas City						
Total Organic Carbon	1.6	mg/L	1.0	1		09/28/21 20:23	7440-44-0	
Total Organic Carbon	1.9	mg/L	1.0	1		09/28/21 20:23	7440-44-0	
Total Organic Carbon	1.9	mg/L	1.0	1		09/28/21 20:23	7440-44-0	
Total Organic Carbon	1.9	mg/L	1.0	1		09/28/21 20:23	7440-44-0	
Mean Total Organic Carbon	1.8	mg/L	1.0	1		09/28/21 20:23	7440-44-0	

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ANALYTICAL RESULTS

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60380803

Sample: MW-101-091721	Lab ID: 60380803002	Collected: 09/17/21 09:00	Received: 09/20/21 12:30	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	09/28/21 12:00	09/29/21 16:48	7440-39-3	
Boron, Total Recoverable	0.42	mg/L	0.10	1	09/28/21 12:00	09/29/21 16:48	7440-42-8	
Calcium, Total Recoverable	98.5	mg/L	0.20	1	09/28/21 12:00	09/29/21 16:48	7440-70-2	
Iron, Total Recoverable	0.20	mg/L	0.050	1	09/28/21 12:00	09/29/21 16:48	7439-89-6	
Magnesium, Total Recoverable	21.7	mg/L	0.050	1	09/28/21 12:00	09/29/21 16:48	7439-95-4	
Manganese, Total Recoverable	<0.0050	mg/L	0.0050	1	09/28/21 12:00	09/29/21 16:48	7439-96-5	
Potassium, Total Recoverable	6.4	mg/L	0.50	1	09/28/21 12:00	09/29/21 16:48	7440-09-7	
Sodium, Total Recoverable	17.8	mg/L	0.50	1	09/28/21 12:00	09/29/21 16:48	7440-23-5	
Total Hardness by 2340B, Total Recoverable	335	mg/L	0.50	1	09/28/21 12:00	09/29/21 16:48		
200.7 Metals, Dissolved								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Arsenic, Dissolved	<0.010	mg/L	0.010	1	09/28/21 12:00	09/29/21 17:47	7440-38-2	
Iron, Dissolved	<0.050	mg/L	0.050	1	09/28/21 12:00	09/29/21 17:47	7439-89-6	
Lithium, Dissolved	0.022	mg/L	0.010	1	09/28/21 12:00	09/29/21 17:47	7439-93-2	D9
Manganese, Dissolved	<0.0050	mg/L	0.0050	1	09/28/21 12:00	09/29/21 17:47	7439-96-5	
Molybdenum, Dissolved	0.036	mg/L	0.020	1	09/28/21 12:00	09/29/21 17:47	7439-98-7	D9
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Total Recoverable	0.021	mg/L	0.010	1	09/24/21 16:45	09/30/21 15:31	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	09/24/21 16:45	09/30/21 14:53	7440-38-2	
Cobalt, Total Recoverable	<0.0010	mg/L	0.0010	1	09/24/21 16:45	09/30/21 14:53	7440-48-4	
Molybdenum, Total Recoverable	0.036	mg/L	0.0010	1	09/24/21 16:45	09/30/21 14:53	7439-98-7	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Kansas City								
Alkalinity,Bicarbonate (CaCO3)	291	mg/L	20.0	1		09/27/21 11:19		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	20.0	1		09/27/21 11:19		
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Kansas City								
Total Dissolved Solids	454	mg/L	10.0	1		09/24/21 12:43		
Iron, Ferrous								
Analytical Method: SM 3500-Fe B#4								
Pace Analytical Services - Kansas City								
Iron, Ferrous	<0.20	mg/L	0.20	1		09/27/21 15:47		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		09/22/21 15:16		H6

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60380803

Sample: MW-101-091721	Lab ID: 60380803002	Collected: 09/17/21 09:00	Received: 09/20/21 12:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0								
Pace Analytical Services - Kansas City								
Chloride	39.8	mg/L	5.0	5		09/28/21 12:01	16887-00-6	
Fluoride	1.0	mg/L	0.20	1		09/24/21 00:29	16984-48-8	
Sulfate	30.7	mg/L	5.0	5		09/28/21 12:01	14808-79-8	
5310C Diss. Organic Carbon LF								
Analytical Method: SM 5310C								
Pace Analytical Services - Kansas City								
Dissolved Organic Carbon	2.4	mg/L	1.0	1		09/24/21 16:19		
Total Organic Carbon								
Analytical Method: EPA 9060								
Pace Analytical Services - Kansas City								
Total Organic Carbon	2.2	mg/L	1.0	1		09/28/21 22:19	7440-44-0	
Total Organic Carbon	2.3	mg/L	1.0	1		09/28/21 22:19	7440-44-0	
Total Organic Carbon	2.3	mg/L	1.0	1		09/28/21 22:19	7440-44-0	
Total Organic Carbon	2.3	mg/L	1.0	1		09/28/21 22:19	7440-44-0	
Mean Total Organic Carbon	2.3	mg/L	1.0	1		09/28/21 22:19	7440-44-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60380803

Sample: MW-106-091721	Lab ID: 60380803003	Collected: 09/17/21 14:00	Received: 09/20/21 12:30	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	0.18	mg/L	0.0050	1	09/28/21 12:00	09/29/21 16:51	7440-39-3	
Boron, Total Recoverable	<0.10	mg/L	0.10	1	09/28/21 12:00	09/29/21 16:51	7440-42-8	
Calcium, Total Recoverable	40.7	mg/L	0.20	1	09/28/21 12:00	09/29/21 16:51	7440-70-2	
Iron, Total Recoverable	1.3	mg/L	0.050	1	09/28/21 12:00	09/29/21 16:51	7439-89-6	
Magnesium, Total Recoverable	6.3	mg/L	0.050	1	09/28/21 12:00	09/29/21 16:51	7439-95-4	
Manganese, Total Recoverable	0.041	mg/L	0.0050	1	09/28/21 12:00	09/29/21 16:51	7439-96-5	
Potassium, Total Recoverable	2.2	mg/L	0.50	1	09/28/21 12:00	09/29/21 16:51	7440-09-7	
Sodium, Total Recoverable	39.9	mg/L	0.50	1	09/28/21 12:00	09/29/21 16:51	7440-23-5	
Total Hardness by 2340B, Total Recoverable	128	mg/L	0.50	1	09/28/21 12:00	09/29/21 16:51		
200.7 Metals, Dissolved								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Arsenic, Dissolved	<0.010	mg/L	0.010	1	09/28/21 12:00	09/29/21 17:49	7440-38-2	
Iron, Dissolved	<0.050	mg/L	0.050	1	09/28/21 12:00	09/29/21 17:49	7439-89-6	
Lithium, Dissolved	0.013	mg/L	0.010	1	09/28/21 12:00	09/29/21 17:49	7439-93-2	
Manganese, Dissolved	<0.0050	mg/L	0.0050	1	09/28/21 12:00	09/29/21 17:49	7439-96-5	
Molybdenum, Dissolved	<0.020	mg/L	0.020	1	09/28/21 12:00	09/29/21 17:49	7439-98-7	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Total Recoverable	0.013	mg/L	0.010	1	09/24/21 16:45	09/30/21 15:34	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	09/24/21 16:45	09/30/21 14:58	7440-38-2	
Cobalt, Total Recoverable	<0.0010	mg/L	0.0010	1	09/24/21 16:45	09/30/21 14:58	7440-48-4	
Molybdenum, Total Recoverable	<0.0010	mg/L	0.0010	1	09/24/21 16:45	09/30/21 14:58	7439-98-7	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Kansas City								
Alkalinity,Bicarbonate (CaCO3)	197	mg/L	20.0	1		09/27/21 11:30		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	20.0	1		09/27/21 11:30		
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Kansas City								
Total Dissolved Solids	282	mg/L	5.0	1		09/24/21 12:43		
Iron, Ferrous								
Analytical Method: SM 3500-Fe B#4								
Pace Analytical Services - Kansas City								
Iron, Ferrous	0.46	mg/L	0.20	1		09/27/21 15:51		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		09/22/21 11:07		H6

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ANALYTICAL RESULTS

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60380803

Sample: MW-106-091721	Lab ID: 60380803003	Collected: 09/17/21 14:00	Received: 09/20/21 12:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0								
Pace Analytical Services - Kansas City								
Chloride	2.2	mg/L	1.0	1		09/24/21 01:43	16887-00-6	
Fluoride	0.31	mg/L	0.20	1		09/24/21 01:43	16984-48-8	
Sulfate	4.9	mg/L	1.0	1		09/24/21 01:43	14808-79-8	
5310C Diss. Organic Carbon LF								
Analytical Method: SM 5310C								
Pace Analytical Services - Kansas City								
Dissolved Organic Carbon	<1.0	mg/L	1.0	1		09/29/21 04:36		
Total Organic Carbon								
Analytical Method: EPA 9060								
Pace Analytical Services - Kansas City								
Total Organic Carbon	<1.0	mg/L	1.0	1		09/28/21 23:18	7440-44-0	
Total Organic Carbon	<1.0	mg/L	1.0	1		09/28/21 23:18	7440-44-0	
Total Organic Carbon	<1.0	mg/L	1.0	1		09/28/21 23:18	7440-44-0	
Total Organic Carbon	<1.0	mg/L	1.0	1		09/28/21 23:18	7440-44-0	
Mean Total Organic Carbon	<1.0	mg/L	1.0	1		09/28/21 23:18	7440-44-0	

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ANALYTICAL RESULTS

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60380803

Sample: MW-107-091721	Lab ID: 60380803004	Collected: 09/17/21 12:40	Received: 09/20/21 12:30	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	0.15	mg/L	0.0050	1	09/28/21 12:00	09/29/21 16:53	7440-39-3	
Boron, Total Recoverable	0.15	mg/L	0.10	1	09/28/21 12:00	09/29/21 16:53	7440-42-8	
Calcium, Total Recoverable	117	mg/L	0.20	1	09/28/21 12:00	09/29/21 16:53	7440-70-2	
Iron, Total Recoverable	<0.050	mg/L	0.050	1	09/28/21 12:00	09/29/21 16:53	7439-89-6	
Magnesium, Total Recoverable	23.4	mg/L	0.050	1	09/28/21 12:00	09/29/21 16:53	7439-95-4	
Manganese, Total Recoverable	0.25	mg/L	0.0050	1	09/28/21 12:00	09/29/21 16:53	7439-96-5	
Potassium, Total Recoverable	8.7	mg/L	0.50	1	09/28/21 12:00	09/29/21 16:53	7440-09-7	
Sodium, Total Recoverable	15.3	mg/L	0.50	1	09/28/21 12:00	09/29/21 16:53	7440-23-5	
Total Hardness by 2340B, Total Recoverable	390	mg/L	0.50	1	09/28/21 12:00	09/29/21 16:53		
200.7 Metals, Dissolved								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Arsenic, Dissolved	<0.010	mg/L	0.010	1	09/28/21 12:00	09/29/21 17:52	7440-38-2	
Iron, Dissolved	<0.050	mg/L	0.050	1	09/28/21 12:00	09/29/21 17:52	7439-89-6	
Lithium, Dissolved	0.020	mg/L	0.010	1	09/28/21 12:00	09/29/21 17:52	7439-93-2	
Manganese, Dissolved	0.25	mg/L	0.0050	1	09/28/21 12:00	09/29/21 17:52	7439-96-5	D9
Molybdenum, Dissolved	0.022	mg/L	0.020	1	09/28/21 12:00	09/29/21 17:52	7439-98-7	D9
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Total Recoverable	0.021	mg/L	0.010	1	09/24/21 16:45	09/30/21 14:06	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	0.0011	mg/L	0.0010	1	09/24/21 16:45	09/30/21 15:03	7440-38-2	
Cobalt, Total Recoverable	0.0012	mg/L	0.0010	1	09/24/21 16:45	09/30/21 15:03	7440-48-4	
Molybdenum, Total Recoverable	0.023	mg/L	0.0010	1	09/24/21 16:45	09/30/21 15:03	7439-98-7	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Kansas City								
Alkalinity,Bicarbonate (CaCO3)	213	mg/L	20.0	1		09/27/21 11:35		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	20.0	1		09/27/21 11:35		
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Kansas City								
Total Dissolved Solids	501	mg/L	10.0	1		09/24/21 12:43		
Iron, Ferrous								
Analytical Method: SM 3500-Fe B#4								
Pace Analytical Services - Kansas City								
Iron, Ferrous	<0.20	mg/L	0.20	1		09/27/21 15:49		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		09/22/21 11:06		H6

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ANALYTICAL RESULTS

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60380803

Sample: MW-107-091721	Lab ID: 60380803004	Collected: 09/17/21 12:40		Received: 09/20/21 12:30		Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City						
Chloride	16.8	mg/L	1.0	1		09/24/21 02:19	16887-00-6	
Fluoride	1.0	mg/L	0.20	1		09/24/21 02:19	16984-48-8	
Sulfate	64.0	mg/L	20.0	20		09/24/21 02:38	14808-79-8	
5310C Diss. Organic Carbon LF		Analytical Method: SM 5310C Pace Analytical Services - Kansas City						
Dissolved Organic Carbon	2.0	mg/L	1.0	1		09/29/21 05:03		
Total Organic Carbon		Analytical Method: EPA 9060 Pace Analytical Services - Kansas City						
Total Organic Carbon	4.0	mg/L	1.0	1		09/28/21 23:48	7440-44-0	
Total Organic Carbon	4.2	mg/L	1.0	1		09/28/21 23:48	7440-44-0	
Total Organic Carbon	4.2	mg/L	1.0	1		09/28/21 23:48	7440-44-0	
Total Organic Carbon	4.3	mg/L	1.0	1		09/28/21 23:48	7440-44-0	
Mean Total Organic Carbon	4.2	mg/L	1.0	1		09/28/21 23:48	7440-44-0	

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ANALYTICAL RESULTS

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60380803

Sample: MW-108-091721	Lab ID: 60380803005	Collected: 09/17/21 10:25	Received: 09/20/21 12:30	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	0.20	mg/L	0.0050	1	09/28/21 12:00	09/29/21 17:04	7440-39-3	
Boron, Total Recoverable	0.29	mg/L	0.10	1	09/28/21 12:00	09/29/21 17:04	7440-42-8	
Calcium, Total Recoverable	81.8	mg/L	0.20	1	09/28/21 12:00	09/29/21 17:04	7440-70-2	
Iron, Total Recoverable	1.5	mg/L	0.050	1	09/28/21 12:00	09/29/21 17:04	7439-89-6	
Magnesium, Total Recoverable	31.8	mg/L	0.050	1	09/28/21 12:00	09/29/21 17:04	7439-95-4	
Manganese, Total Recoverable	0.35	mg/L	0.0050	1	09/28/21 12:00	09/29/21 17:04	7439-96-5	
Potassium, Total Recoverable	11.6	mg/L	0.50	1	09/28/21 12:00	09/29/21 17:04	7440-09-7	
Sodium, Total Recoverable	21.9	mg/L	0.50	1	09/28/21 12:00	09/29/21 17:04	7440-23-5	
Total Hardness by 2340B, Total Recoverable	335	mg/L	0.50	1	09/28/21 12:00	09/29/21 17:04		
200.7 Metals, Dissolved								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Arsenic, Dissolved	<0.010	mg/L	0.010	1	09/28/21 12:00	09/29/21 17:55	7440-38-2	
Iron, Dissolved	1.4	mg/L	0.050	1	09/28/21 12:00	09/29/21 17:55	7439-89-6	
Lithium, Dissolved	0.020	mg/L	0.010	1	09/28/21 12:00	09/29/21 17:55	7439-93-2	D9
Manganese, Dissolved	0.34	mg/L	0.0050	1	09/28/21 12:00	09/29/21 17:55	7439-96-5	
Molybdenum, Dissolved	0.029	mg/L	0.020	1	09/28/21 12:00	09/29/21 17:55	7439-98-7	
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	09/24/21 16:45	09/30/21 14:08	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	0.0063	mg/L	0.0010	1	09/24/21 16:45	09/30/21 15:07	7440-38-2	
Cobalt, Total Recoverable	<0.0010	mg/L	0.0010	1	09/24/21 16:45	09/30/21 15:07	7440-48-4	
Molybdenum, Total Recoverable	0.031	mg/L	0.0010	1	09/24/21 16:45	09/30/21 15:07	7439-98-7	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Kansas City								
Alkalinity,Bicarbonate (CaCO3)	278	mg/L	20.0	1		09/27/21 11:41		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	20.0	1		09/27/21 11:41		
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Kansas City								
Total Dissolved Solids	462	mg/L	10.0	1		09/24/21 12:44		
Iron, Ferrous								
Analytical Method: SM 3500-Fe B#4								
Pace Analytical Services - Kansas City								
Iron, Ferrous	<0.20	mg/L	0.20	1		09/27/21 15:47		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		09/22/21 11:02		H6

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ANALYTICAL RESULTS

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60380803

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Sample: MW-108-091721								
Lab ID: 60380803005								
Collected: 09/17/21 10:25								
Received: 09/20/21 12:30								
Matrix: Water								
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0								
Pace Analytical Services - Kansas City								
Chloride	62.8	mg/L	20.0	20		09/24/21 03:51	16887-00-6	
Fluoride	2.1	mg/L	0.20	1		09/24/21 03:33	16984-48-8	
Sulfate	27.8	mg/L	5.0	5		09/27/21 18:34	14808-79-8	
5310C Diss. Organic Carbon LF								
Analytical Method: SM 5310C								
Pace Analytical Services - Kansas City								
Dissolved Organic Carbon	2.4	mg/L	1.0	1		09/29/21 05:16		
Total Organic Carbon								
Analytical Method: EPA 9060								
Pace Analytical Services - Kansas City								
Total Organic Carbon	2.4	mg/L	1.0	1		09/29/21 00:18	7440-44-0	
Total Organic Carbon	2.6	mg/L	1.0	1		09/29/21 00:18	7440-44-0	
Total Organic Carbon	2.6	mg/L	1.0	1		09/29/21 00:18	7440-44-0	
Total Organic Carbon	2.4	mg/L	1.0	1		09/29/21 00:18	7440-44-0	
Mean Total Organic Carbon	2.5	mg/L	1.0	1		09/29/21 00:18	7440-44-0	

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ANALYTICAL RESULTS

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60380803

Sample: MW-109-091721	Lab ID: 60380803006	Collected: 09/17/21 14:10	Received: 09/20/21 12:30	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	0.036	mg/L	0.0050	1	09/28/21 12:00	09/29/21 17:06	7440-39-3	
Boron, Total Recoverable	0.81	mg/L	0.10	1	09/28/21 12:00	09/29/21 17:06	7440-42-8	
Calcium, Total Recoverable	104	mg/L	0.20	1	09/28/21 12:00	09/29/21 17:06	7440-70-2	
Iron, Total Recoverable	<0.050	mg/L	0.050	1	09/28/21 12:00	09/29/21 17:06	7439-89-6	
Magnesium, Total Recoverable	19.5	mg/L	0.050	1	09/28/21 12:00	09/29/21 17:06	7439-95-4	
Manganese, Total Recoverable	0.22	mg/L	0.0050	1	09/28/21 12:00	09/29/21 17:06	7439-96-5	
Potassium, Total Recoverable	11.9	mg/L	0.50	1	09/28/21 12:00	09/29/21 17:06	7440-09-7	
Sodium, Total Recoverable	95.0	mg/L	0.50	1	09/28/21 12:00	09/29/21 17:06	7440-23-5	
Total Hardness by 2340B, Total Recoverable	339	mg/L	0.50	1	09/28/21 12:00	09/29/21 17:06		
200.7 Metals, Dissolved								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Arsenic, Dissolved	<0.010	mg/L	0.010	1	09/28/21 12:00	09/29/21 18:05	7440-38-2	
Iron, Dissolved	<0.050	mg/L	0.050	1	09/28/21 12:00	09/29/21 18:05	7439-89-6	
Lithium, Dissolved	0.024	mg/L	0.010	1	09/28/21 12:00	09/29/21 18:05	7439-93-2	D9
Manganese, Dissolved	0.22	mg/L	0.0050	1	09/28/21 12:00	09/29/21 18:05	7439-96-5	
Molybdenum, Dissolved	0.025	mg/L	0.020	1	09/28/21 12:00	09/29/21 18:05	7439-98-7	D9
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Total Recoverable	0.024	mg/L	0.010	1	09/24/21 16:45	09/30/21 14:11	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	09/24/21 16:45	09/30/21 15:17	7440-38-2	
Cobalt, Total Recoverable	<0.0010	mg/L	0.0010	1	09/24/21 16:45	09/30/21 15:17	7440-48-4	
Molybdenum, Total Recoverable	0.027	mg/L	0.0010	1	09/24/21 16:45	09/30/21 15:17	7439-98-7	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Kansas City								
Alkalinity,Bicarbonate (CaCO3)	90.7	mg/L	20.0	1		09/27/21 11:45		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	20.0	1		09/27/21 11:45		
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Kansas City								
Total Dissolved Solids	984	mg/L	10.0	1		09/24/21 12:44		
Iron, Ferrous								
Analytical Method: SM 3500-Fe B#4								
Pace Analytical Services - Kansas City								
Iron, Ferrous	<0.20	mg/L	0.20	1		09/27/21 15:51		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		09/22/21 11:10		H6

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ANALYTICAL RESULTS

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60380803

Sample: MW-109-091721	Lab ID: 60380803006	Collected: 09/17/21 14:10	Received: 09/20/21 12:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City						
Chloride	119	mg/L	20.0	20		09/24/21 04:28	16887-00-6	
Fluoride	0.82	mg/L	0.20	1		09/24/21 04:09	16984-48-8	
Sulfate	344	mg/L	20.0	20		09/24/21 04:28	14808-79-8	
5310C Diss. Organic Carbon LF		Analytical Method: SM 5310C Pace Analytical Services - Kansas City						
Dissolved Organic Carbon	2.4	mg/L	1.0	1		09/29/21 05:43		
Total Organic Carbon		Analytical Method: EPA 9060 Pace Analytical Services - Kansas City						
Total Organic Carbon	2.9	mg/L	1.0	1		09/29/21 01:14	7440-44-0	
Total Organic Carbon	2.9	mg/L	1.0	1		09/29/21 01:14	7440-44-0	
Total Organic Carbon	2.7	mg/L	1.0	1		09/29/21 01:14	7440-44-0	
Total Organic Carbon	2.8	mg/L	1.0	1		09/29/21 01:14	7440-44-0	
Mean Total Organic Carbon	2.8	mg/L	1.0	1		09/29/21 01:14	7440-44-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60380803

Sample: MW-110-091721	Lab ID: 60380803007	Collected: 09/17/21 15:30	Received: 09/20/21 12:30	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	0.086	mg/L	0.0050	1	09/28/21 12:00	09/29/21 17:09	7440-39-3	
Boron, Total Recoverable	1.5	mg/L	0.10	1	09/28/21 12:00	09/29/21 17:09	7440-42-8	
Calcium, Total Recoverable	170	mg/L	0.20	1	09/28/21 12:00	09/29/21 17:09	7440-70-2	
Iron, Total Recoverable	0.069	mg/L	0.050	1	09/28/21 12:00	09/29/21 17:09	7439-89-6	
Magnesium, Total Recoverable	48.7	mg/L	0.050	1	09/28/21 12:00	09/29/21 17:09	7439-95-4	
Manganese, Total Recoverable	0.42	mg/L	0.0050	1	09/28/21 12:00	09/29/21 17:09	7439-96-5	
Potassium, Total Recoverable	15.2	mg/L	0.50	1	09/28/21 12:00	09/29/21 17:09	7440-09-7	
Sodium, Total Recoverable	151	mg/L	0.50	1	09/28/21 12:00	09/29/21 17:09	7440-23-5	
Total Hardness by 2340B, Total Recoverable	625	mg/L	0.50	1	09/28/21 12:00	09/29/21 17:09		
200.7 Metals, Dissolved								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Arsenic, Dissolved	0.011	mg/L	0.010	1	09/28/21 12:00	09/29/21 18:07	7440-38-2	
Iron, Dissolved	0.16	mg/L	0.050	1	09/28/21 12:00	09/29/21 18:07	7439-89-6	
Lithium, Dissolved	0.042	mg/L	0.010	1	09/28/21 12:00	09/29/21 18:07	7439-93-2	1e
Manganese, Dissolved	0.60	mg/L	0.0050	1	09/28/21 12:00	09/29/21 18:07	7439-96-5	
Molybdenum, Dissolved	0.056	mg/L	0.020	1	09/28/21 12:00	09/29/21 18:07	7439-98-7	
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	09/24/21 16:45	09/30/21 14:13	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	09/24/21 16:45	09/30/21 15:27	7440-38-2	
Cobalt, Total Recoverable	<0.0010	mg/L	0.0010	1	09/24/21 16:45	09/30/21 15:27	7440-48-4	
Molybdenum, Total Recoverable	0.050	mg/L	0.0010	1	09/24/21 16:45	09/30/21 15:27	7439-98-7	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Kansas City								
Alkalinity,Bicarbonate (CaCO3)	144	mg/L	20.0	1		09/27/21 11:50		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	20.0	1		09/27/21 11:50		
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Kansas City								
Total Dissolved Solids	3630	mg/L	100	1		09/24/21 12:44		
Iron, Ferrous								
Analytical Method: SM 3500-Fe B#4								
Pace Analytical Services - Kansas City								
Iron, Ferrous	<0.20	mg/L	0.20	1		09/27/21 15:52		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		09/22/21 11:12		H6

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60380803

Sample: MW-110-091721	Lab ID: 60380803007	Collected: 09/17/21 15:30	Received: 09/20/21 12:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City						
Chloride	323	mg/L	50.0	50		09/28/21 12:11	16887-00-6	
Fluoride	4.1	mg/L	0.20	1		09/24/21 04:46	16984-48-8	
Sulfate	1590	mg/L	200	200		09/27/21 18:57	14808-79-8	
5310C Diss. Organic Carbon LF		Analytical Method: SM 5310C Pace Analytical Services - Kansas City						
Dissolved Organic Carbon	1.9	mg/L	1.0	1		09/29/21 05:56		
Total Organic Carbon		Analytical Method: EPA 9060 Pace Analytical Services - Kansas City						
Total Organic Carbon	2.9	mg/L	1.0	1		09/29/21 01:44	7440-44-0	
Total Organic Carbon	3.1	mg/L	1.0	1		09/29/21 01:44	7440-44-0	
Total Organic Carbon	3.0	mg/L	1.0	1		09/29/21 01:44	7440-44-0	
Total Organic Carbon	3.2	mg/L	1.0	1		09/29/21 01:44	7440-44-0	
Mean Total Organic Carbon	3.0	mg/L	1.0	1		09/29/21 01:44	7440-44-0	

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ANALYTICAL RESULTS

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60380803

Sample: MW-112-091721	Lab ID: 60380803008	Collected: 09/17/21 17:25	Received: 09/20/21 12:30	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	0.24	mg/L	0.0050	1	09/28/21 12:00	09/29/21 17:11	7440-39-3	
Boron, Total Recoverable	<0.10	mg/L	0.10	1	09/28/21 12:00	09/29/21 17:11	7440-42-8	
Calcium, Total Recoverable	117	mg/L	0.20	1	09/28/21 12:00	09/29/21 17:11	7440-70-2	M1
Iron, Total Recoverable	7.9	mg/L	0.050	1	09/28/21 12:00	09/29/21 17:11	7439-89-6	
Magnesium, Total Recoverable	15.2	mg/L	0.050	1	09/28/21 12:00	09/29/21 17:11	7439-95-4	
Manganese, Total Recoverable	1.0	mg/L	0.0050	1	09/28/21 12:00	09/29/21 17:11	7439-96-5	
Potassium, Total Recoverable	5.3	mg/L	0.50	1	09/28/21 12:00	09/29/21 17:11	7440-09-7	
Sodium, Total Recoverable	12.0	mg/L	0.50	1	09/28/21 12:00	09/29/21 17:11	7440-23-5	
Total Hardness by 2340B, Total Recoverable	354	mg/L	0.50	1	09/28/21 12:00	09/29/21 17:11		
200.7 Metals, Dissolved								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Arsenic, Dissolved	<0.010	mg/L	0.010	1	09/28/21 12:00	09/29/21 18:10	7440-38-2	
Iron, Dissolved	6.8	mg/L	0.050	1	09/28/21 12:00	09/29/21 18:10	7439-89-6	
Lithium, Dissolved	0.016	mg/L	0.010	1	09/28/21 12:00	09/29/21 18:10	7439-93-2	D9
Manganese, Dissolved	0.96	mg/L	0.0050	1	09/28/21 12:00	09/29/21 18:10	7439-96-5	
Molybdenum, Dissolved	<0.020	mg/L	0.020	1	09/28/21 12:00	09/29/21 18:10	7439-98-7	
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	09/24/21 16:45	09/30/21 14:16	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	0.0023	mg/L	0.0010	1	09/24/21 16:45	09/30/21 15:32	7440-38-2	
Cobalt, Total Recoverable	<0.0010	mg/L	0.0010	1	09/24/21 16:45	09/30/21 15:32	7440-48-4	
Molybdenum, Total Recoverable	0.010	mg/L	0.0010	1	09/24/21 16:45	09/30/21 15:32	7439-98-7	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Kansas City								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	20.0	1		09/27/21 11:55		
Alkalinity,Carbonate (CaCO3)	459	mg/L	20.0	1		09/27/21 11:55		
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Kansas City								
Total Dissolved Solids	460	mg/L	10.0	1		09/24/21 12:44		
Iron, Ferrous								
Analytical Method: SM 3500-Fe B#4								
Pace Analytical Services - Kansas City								
Iron, Ferrous	0.24	mg/L	0.20	1		09/27/21 15:53		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		09/22/21 11:18		H6

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ANALYTICAL RESULTS

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60380803

Sample: MW-112-091721	Lab ID: 60380803008	Collected: 09/17/21 17:25	Received: 09/20/21 12:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0								
Pace Analytical Services - Kansas City								
Chloride	34.4	mg/L	5.0	5		09/28/21 12:40	16887-00-6	
Fluoride	0.30	mg/L	0.20	1		09/24/21 05:23	16984-48-8	
Sulfate	23.7	mg/L	2.0	2		09/27/21 19:09	14808-79-8	
5310C Diss. Organic Carbon LF								
Analytical Method: SM 5310C								
Pace Analytical Services - Kansas City								
Dissolved Organic Carbon	2.1	mg/L	1.0	1		09/29/21 06:10		
Total Organic Carbon								
Analytical Method: EPA 9060								
Pace Analytical Services - Kansas City								
Total Organic Carbon	2.2	mg/L	1.0	1		09/29/21 02:14	7440-44-0	
Total Organic Carbon	2.2	mg/L	1.0	1		09/29/21 02:14	7440-44-0	
Total Organic Carbon	2.2	mg/L	1.0	1		09/29/21 02:14	7440-44-0	
Total Organic Carbon	2.2	mg/L	1.0	1		09/29/21 02:14	7440-44-0	
Mean Total Organic Carbon	2.2	mg/L	1.0	1		09/29/21 02:14	7440-44-0	

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ANALYTICAL RESULTS

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60380803

Sample: MW-113-091721	Lab ID: 60380803009	Collected: 09/17/21 15:55	Received: 09/20/21 12:30	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	0.067	mg/L	0.0050	1	09/28/21 12:00	09/29/21 17:16	7440-39-3	
Boron, Total Recoverable	4.8	mg/L	0.10	1	09/28/21 12:00	09/29/21 17:16	7440-42-8	
Calcium, Total Recoverable	184	mg/L	0.20	1	09/28/21 12:00	09/29/21 17:16	7440-70-2	
Iron, Total Recoverable	6.8	mg/L	0.050	1	09/28/21 12:00	09/29/21 17:16	7439-89-6	
Magnesium, Total Recoverable	69.4	mg/L	0.050	1	09/28/21 12:00	09/29/21 17:16	7439-95-4	
Manganese, Total Recoverable	0.76	mg/L	0.0050	1	09/28/21 12:00	09/29/21 17:16	7439-96-5	
Potassium, Total Recoverable	14.8	mg/L	0.50	1	09/28/21 12:00	09/29/21 17:16	7440-09-7	
Sodium, Total Recoverable	146	mg/L	0.50	1	09/28/21 12:00	09/29/21 17:16	7440-23-5	
Total Hardness by 2340B, Total Recoverable	745	mg/L	0.50	1	09/28/21 12:00	09/29/21 17:16		
200.7 Metals, Dissolved								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Arsenic, Dissolved	0.010	mg/L	0.010	1	09/28/21 12:00	09/29/21 18:13	7440-38-2	
Iron, Dissolved	3.5	mg/L	0.050	1	09/28/21 12:00	09/29/21 18:13	7439-89-6	
Lithium, Dissolved	0.066	mg/L	0.010	1	09/28/21 12:00	09/29/21 18:13	7439-93-2	D9
Manganese, Dissolved	0.66	mg/L	0.0050	1	09/28/21 12:00	09/29/21 18:13	7439-96-5	
Molybdenum, Dissolved	0.16	mg/L	0.020	1	09/28/21 12:00	09/29/21 18:13	7439-98-7	D9
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Total Recoverable	0.077	mg/L	0.010	1	09/24/21 16:45	09/30/21 14:18	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	0.0037	mg/L	0.0010	1	09/24/21 16:45	09/30/21 15:41	7440-38-2	
Cobalt, Total Recoverable	0.0016	mg/L	0.0010	1	09/24/21 16:45	09/30/21 15:41	7440-48-4	
Molybdenum, Total Recoverable	0.17	mg/L	0.0010	1	09/24/21 16:45	09/30/21 15:41	7439-98-7	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Kansas City								
Alkalinity,Bicarbonate (CaCO3)	304	mg/L	20.0	1		09/27/21 12:10		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	20.0	1		09/27/21 12:10		
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Kansas City								
Total Dissolved Solids	1420	mg/L	20.0	1		09/24/21 12:44		
Iron, Ferrous								
Analytical Method: SM 3500-Fe B#4								
Pace Analytical Services - Kansas City								
Iron, Ferrous	0.79	mg/L	0.20	1		09/27/21 15:52		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		09/22/21 11:14		H6

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60380803

Sample: MW-113-091721	Lab ID: 60380803009	Collected: 09/17/21 15:55	Received: 09/20/21 12:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City						
Chloride	112	mg/L	20.0	20		09/24/21 06:18	16887-00-6	
Fluoride	6.5	mg/L	0.20	1		09/24/21 06:00	16984-48-8	
Sulfate	601	mg/L	50.0	50		09/27/21 19:56	14808-79-8	
5310C Diss. Organic Carbon LF		Analytical Method: SM 5310C Pace Analytical Services - Kansas City						
Dissolved Organic Carbon	2.3	mg/L	1.0	1		09/29/21 06:50		
Total Organic Carbon		Analytical Method: EPA 9060 Pace Analytical Services - Kansas City						
Total Organic Carbon	1.9	mg/L	1.0	1		09/29/21 02:44	7440-44-0	
Total Organic Carbon	2.1	mg/L	1.0	1		09/29/21 02:44	7440-44-0	
Total Organic Carbon	2.0	mg/L	1.0	1		09/29/21 02:44	7440-44-0	
Total Organic Carbon	2.2	mg/L	1.0	1		09/29/21 02:44	7440-44-0	
Mean Total Organic Carbon	2.1	mg/L	1.0	1		09/29/21 02:44	7440-44-0	

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ANALYTICAL RESULTS

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60380803

Sample: LEC-CMA-DUP02-091721	Lab ID: 60380803010	Collected: 09/17/21 10:25	Received: 09/20/21 12:30	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	0.20	mg/L	0.0050	1	09/28/21 12:00	09/29/21 17:19	7440-39-3	
Boron, Total Recoverable	0.29	mg/L	0.10	1	09/28/21 12:00	09/29/21 17:19	7440-42-8	
Calcium, Total Recoverable	77.6	mg/L	0.20	1	09/28/21 12:00	09/29/21 17:19	7440-70-2	
Iron, Total Recoverable	1.4	mg/L	0.050	1	09/28/21 12:00	09/29/21 17:19	7439-89-6	
Magnesium, Total Recoverable	30.5	mg/L	0.050	1	09/28/21 12:00	09/29/21 17:19	7439-95-4	
Manganese, Total Recoverable	0.33	mg/L	0.0050	1	09/28/21 12:00	09/29/21 17:19	7439-96-5	
Potassium, Total Recoverable	11.0	mg/L	0.50	1	09/28/21 12:00	09/29/21 17:19	7440-09-7	
Sodium, Total Recoverable	21.1	mg/L	0.50	1	09/28/21 12:00	09/29/21 17:19	7440-23-5	
Total Hardness by 2340B, Total Recoverable	319	mg/L	0.50	1	09/28/21 12:00	09/29/21 17:19		
200.7 Metals, Dissolved								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Arsenic, Dissolved	0.016	mg/L	0.010	1	09/28/21 12:00	09/29/21 18:15	7440-38-2	
Iron, Dissolved	1.4	mg/L	0.050	1	09/28/21 12:00	09/29/21 18:15	7439-89-6	
Lithium, Dissolved	0.019	mg/L	0.010	1	09/28/21 12:00	09/29/21 18:15	7439-93-2	1e
Manganese, Dissolved	0.35	mg/L	0.0050	1	09/28/21 12:00	09/29/21 18:15	7439-96-5	
Molybdenum, Dissolved	0.029	mg/L	0.020	1	09/28/21 12:00	09/29/21 18:15	7439-98-7	
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	09/24/21 16:45	09/30/21 14:20	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	0.0064	mg/L	0.0010	1	09/24/21 16:45	09/30/21 15:46	7440-38-2	
Cobalt, Total Recoverable	<0.0010	mg/L	0.0010	1	09/24/21 16:45	09/30/21 15:46	7440-48-4	
Molybdenum, Total Recoverable	0.031	mg/L	0.0010	1	09/24/21 16:45	09/30/21 15:46	7439-98-7	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Kansas City								
Alkalinity,Bicarbonate (CaCO3)	280	mg/L	20.0	1		09/28/21 14:15		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	20.0	1		09/28/21 14:15		
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Kansas City								
Total Dissolved Solids	462	mg/L	10.0	1		09/24/21 12:44		
Iron, Ferrous								
Analytical Method: SM 3500-Fe B#4								
Pace Analytical Services - Kansas City								
Iron, Ferrous	<0.20	mg/L	0.20	1		09/27/21 15:48		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		09/22/21 11:04		H6

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ANALYTICAL RESULTS

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60380803

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Sample: LEC-CMA-DUP02-091721 Lab ID: 60380803010 Collected: 09/17/21 10:25 Received: 09/20/21 12:30 Matrix: Water								
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0								
Pace Analytical Services - Kansas City								
Chloride	61.6	mg/L	20.0	20		09/24/21 07:31	16887-00-6	
Fluoride	2.1	mg/L	0.20	1		09/24/21 06:36	16984-48-8	
Sulfate	27.7	mg/L	5.0	5		09/27/21 20:08	14808-79-8	
5310C Diss. Organic Carbon LF								
Analytical Method: SM 5310C								
Pace Analytical Services - Kansas City								
Dissolved Organic Carbon	2.3	mg/L	1.0	1		09/29/21 07:03		
Total Organic Carbon								
Analytical Method: EPA 9060								
Pace Analytical Services - Kansas City								
Total Organic Carbon	2.5	mg/L	1.0	1		09/29/21 03:14	7440-44-0	
Total Organic Carbon	2.6	mg/L	1.0	1		09/29/21 03:14	7440-44-0	
Total Organic Carbon	2.6	mg/L	1.0	1		09/29/21 03:14	7440-44-0	
Total Organic Carbon	2.6	mg/L	1.0	1		09/29/21 03:14	7440-44-0	
Mean Total Organic Carbon	2.6	mg/L	1.0	1		09/29/21 03:14	7440-44-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60380803

Sample: EB-091721	Lab ID: 60380803011	Collected: 09/17/21 18:30		Received: 09/20/21 12:30		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	<0.0050	mg/L	0.0050	1	09/28/21 12:00	09/29/21 17:22	7440-39-3	
Boron, Total Recoverable	<0.10	mg/L	0.10	1	09/28/21 12:00	09/29/21 17:22	7440-42-8	
Calcium, Total Recoverable	<0.20	mg/L	0.20	1	09/28/21 12:00	09/29/21 17:22	7440-70-2	
Iron, Total Recoverable	<0.050	mg/L	0.050	1	09/28/21 12:00	09/29/21 17:22	7439-89-6	
Magnesium, Total Recoverable	<0.050	mg/L	0.050	1	09/28/21 12:00	09/29/21 17:22	7439-95-4	
Manganese, Total Recoverable	<0.0050	mg/L	0.0050	1	09/28/21 12:00	09/29/21 17:22	7439-96-5	
Potassium, Total Recoverable	<0.50	mg/L	0.50	1	09/28/21 12:00	09/29/21 17:22	7440-09-7	
Sodium, Total Recoverable	<0.50	mg/L	0.50	1	09/28/21 12:00	09/29/21 17:22	7440-23-5	
Total Hardness by 2340B, Total Recoverable	<0.50	mg/L	0.50	1	09/28/21 12:00	09/29/21 17:22		
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	09/24/21 16:45	09/30/21 14:23	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	09/24/21 16:45	09/30/21 15:51	7440-38-2	
Cobalt, Total Recoverable	<0.0010	mg/L	0.0010	1	09/24/21 16:45	09/30/21 15:51	7440-48-4	
Molybdenum, Total Recoverable	<0.0010	mg/L	0.0010	1	09/24/21 16:45	09/30/21 15:51	7439-98-7	

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELLS C
Pace Project No.: 60380803

QC Batch: 745980 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: 60380803001, 60380803002, 60380803003, 60380803004, 60380803005, 60380803006, 60380803007, 60380803008, 60380803009, 60380803010, 60380803011

METHOD BLANK: 2988108 Matrix: Water
Associated Lab Samples: 60380803001, 60380803002, 60380803003, 60380803004, 60380803005, 60380803006, 60380803007, 60380803008, 60380803009, 60380803010, 60380803011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Barium	mg/L	<0.0050	0.0050	09/29/21 16:15	
Boron	mg/L	<0.10	0.10	09/29/21 16:15	
Calcium	mg/L	<0.20	0.20	09/29/21 16:15	
Iron	mg/L	<0.050	0.050	09/29/21 16:15	
Magnesium	mg/L	<0.050	0.050	09/29/21 16:15	
Manganese	mg/L	<0.0050	0.0050	09/29/21 16:15	
Potassium	mg/L	<0.50	0.50	09/29/21 16:15	
Sodium	mg/L	<0.50	0.50	09/29/21 16:15	

LABORATORY CONTROL SAMPLE: 2988109

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	mg/L	1	0.96	96	85-115	
Boron	mg/L	1	0.91	91	85-115	
Calcium	mg/L	10	9.8	98	85-115	
Iron	mg/L	10	10	100	85-115	
Magnesium	mg/L	10	9.7	97	85-115	
Manganese	mg/L	1	0.95	95	85-115	
Potassium	mg/L	10	9.8	98	85-115	
Sodium	mg/L	10	9.6	96	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2988110 2988111

Parameter	Units	60380634001		2988110		2988111		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Barium	mg/L	0.033	1	1	1	0.98	0.97	95	94	70-130	1	20	
Boron	mg/L	0.35	1	1	1	1.3	1.3	94	93	70-130	1	20	
Calcium	mg/L	181	10	10	10	193	186	124	51	70-130	4	20	M1
Iron	mg/L		10	10	10	9.7	9.6	97	96	70-130	1	20	
Magnesium	mg/L		10	10	10	57.2	55.6	108	92	70-130	3	20	
Manganese	mg/L		1	1	1	1.0	1.0	93	92	70-130	1	20	
Potassium	mg/L		10	10	10	11.3	11.1	98	96	70-130	2	20	
Sodium	mg/L		10	10	10	81.9	79.2	115	88	70-130	3	20	

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60380803

MATRIX SPIKE SAMPLE:		2988112					
Parameter	Units	60380803008 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Barium	mg/L	0.24	1	1.2	92	70-130	
Boron	mg/L	<0.10	1	0.98	90	70-130	
Calcium	mg/L	117	10	122	49	70-130	M1
Iron	mg/L	7.9	10	17.1	92	70-130	
Magnesium	mg/L	15.2	10	24.1	89	70-130	
Manganese	mg/L	1.0	1	1.9	87	70-130	
Potassium	mg/L	5.3	10	14.6	94	70-130	
Sodium	mg/L	12.0	10	20.8	88	70-130	

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60380803

QC Batch:	745981	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: 60380803001, 60380803002, 60380803003, 60380803004, 60380803005, 60380803006, 60380803007, 60380803008, 60380803009, 60380803010

METHOD BLANK: 2988113 Matrix: Water
Associated Lab Samples: 60380803001, 60380803002, 60380803003, 60380803004, 60380803005, 60380803006, 60380803007, 60380803008, 60380803009, 60380803010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic, Dissolved	mg/L	<0.010	0.010	09/29/21 17:35	
Iron, Dissolved	mg/L	<0.050	0.050	09/29/21 17:35	
Lithium, Dissolved	mg/L	<0.010	0.010	09/29/21 17:35	
Manganese, Dissolved	mg/L	<0.0050	0.0050	09/29/21 17:35	
Molybdenum, Dissolved	mg/L	<0.020	0.020	09/29/21 17:35	

LABORATORY CONTROL SAMPLE: 2988114

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic, Dissolved	mg/L	1	0.88	88	85-115	
Iron, Dissolved	mg/L	10	9.6	96	85-115	
Lithium, Dissolved	mg/L	1	0.92	92	85-115	
Manganese, Dissolved	mg/L	1	0.95	95	85-115	
Molybdenum, Dissolved	mg/L	1	0.97	97	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2988115 2988116

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		60380803001 Result	Spike Conc.	Spike Conc.	Result						
Arsenic, Dissolved	mg/L	<0.010	1	1	0.92	0.91	92	91	70-130	1	20
Iron, Dissolved	mg/L	4.7	10	10	14.2	14.1	95	93	70-130	1	20
Lithium, Dissolved	mg/L	0.013	1	1	0.96	0.96	95	94	70-130	0	20
Manganese, Dissolved	mg/L	1.0	1	1	2.0	2.0	91	91	70-130	0	20
Molybdenum, Dissolved	mg/L	0.022	1	1	1.0	1.0	98	98	70-130	0	20

MATRIX SPIKE SAMPLE: 2988117

Parameter	Units	60380803010 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic, Dissolved	mg/L	0.016	1	0.89	88	70-130	
Iron, Dissolved	mg/L	1.4	10	10.9	95	70-130	
Lithium, Dissolved	mg/L	0.019	1	0.95	94	70-130	
Manganese, Dissolved	mg/L	0.35	1	1.3	95	70-130	
Molybdenum, Dissolved	mg/L	0.029	1	1.0	98	70-130	

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60380803

QC Batch:	745509	Analysis Method:	EPA 200.8
QC Batch Method:	EPA 200.8	Analysis Description:	200.8 MET
		Laboratory:	Pace Analytical Services - Kansas City
Associated Lab Samples:	60380803001, 60380803002, 60380803003, 60380803004, 60380803005, 60380803006, 60380803007, 60380803008, 60380803009, 60380803010, 60380803011		

METHOD BLANK:	2986153	Matrix:	Water
Associated Lab Samples:	60380803001, 60380803002, 60380803003, 60380803004, 60380803005, 60380803006, 60380803007, 60380803008, 60380803009, 60380803010, 60380803011		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/L	<0.0010	0.0010	09/30/21 14:00	
Cobalt	mg/L	<0.0010	0.0010	09/30/21 14:00	
Molybdenum	mg/L	<0.0010	0.0010	09/30/21 14:00	

LABORATORY CONTROL SAMPLE: 2986154						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	0.04	0.039	98	85-115	
Cobalt	mg/L	0.04	0.038	95	85-115	
Molybdenum	mg/L	0.04	0.040	100	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2986155												2986156	
Parameter	Units	60380634001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
Arsenic	mg/L	<0.0010	0.04	0.04	0.041	0.040	100	98	70-130	2	20		
Cobalt	mg/L	<0.0010	0.04	0.04	0.037	0.036	91	88	70-130	3	20		
Molybdenum	mg/L	0.0028	0.04	0.04	0.045	0.043	106	102	70-130	4	20		

MATRIX SPIKE SAMPLE: 2986157											
Parameter	Units	60380803005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers				
Arsenic	mg/L	0.0063	0.04	0.042	90	70-130					
Cobalt	mg/L	<0.0010	0.04	0.037	93	70-130					
Molybdenum	mg/L	0.031	0.04	0.070	98	70-130					

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60380803

QC Batch:	745513	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET
		Laboratory:	Pace Analytical Services - Kansas City
Associated Lab Samples:	60380803001, 60380803002, 60380803003, 60380803004, 60380803005, 60380803006, 60380803007, 60380803008, 60380803009, 60380803010, 60380803011		

METHOD BLANK:	2986166	Matrix:	Water
Associated Lab Samples:	60380803001, 60380803002, 60380803003, 60380803004, 60380803005, 60380803006, 60380803007, 60380803008, 60380803009, 60380803010, 60380803011		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lithium	mg/L	<0.010	0.010	09/30/21 15:02	

LABORATORY CONTROL SAMPLE: 2986167						
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: 2986168												2986169	
Parameter	Units	60380634002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
Lithium	mg/L	0.013	1	1	1.2	1.2	115	115	75-125	0	20		

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60380803

QC Batch:	745654	Analysis Method:	SM 2320B
QC Batch Method:	SM 2320B	Analysis Description:	2320B Alkalinity
		Laboratory:	Pace Analytical Services - Kansas City

Associated Lab Samples: 60380803001, 60380803002, 60380803003, 60380803004, 60380803005, 60380803006, 60380803007, 60380803008, 60380803009

METHOD BLANK: 2987013 Matrix: Water

Associated Lab Samples: 60380803001, 60380803002, 60380803003, 60380803004, 60380803005, 60380803006, 60380803007, 60380803008, 60380803009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	20.0	09/27/21 09:42	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	20.0	09/27/21 09:42	

SAMPLE DUPLICATE: 2987016

Parameter	Units	60380803002 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity,Bicarbonate (CaCO3)	mg/L	291	289	1	10	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	ND		10	

SAMPLE DUPLICATE: 2987072

Parameter	Units	60380469002 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity,Bicarbonate (CaCO3)	mg/L	100	99.4	1	10	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	ND		10	

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60380803

QC Batch: 745945

Analysis Method: SM 2320B

QC Batch Method: SM 2320B

Analysis Description: 2320B Alkalinity

Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60380803010

METHOD BLANK: 2988007

Matrix: Water

Associated Lab Samples: 60380803010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	20.0	09/28/21 13:36	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	20.0	09/28/21 13:36	

SAMPLE DUPLICATE: 2988009

Parameter	Units	60380192002 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity,Bicarbonate (CaCO3)	mg/L	665	674	1	10	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	ND		10	

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60380803

QC Batch:	745299	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Kansas City

Associated Lab Samples: 60380803001, 60380803002, 60380803003, 60380803004, 60380803005, 60380803006, 60380803007, 60380803008, 60380803009, 60380803010

METHOD BLANK: 2985399 Matrix: Water

Associated Lab Samples: 60380803001, 60380803002, 60380803003, 60380803004, 60380803005, 60380803006, 60380803007, 60380803008, 60380803009, 60380803010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<5.0	5.0	09/24/21 12:41	

LABORATORY CONTROL SAMPLE: 2985400

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	1000	966	97	80-120	

SAMPLE DUPLICATE: 2985401

Parameter	Units	60380560001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	458	453	1	10	

SAMPLE DUPLICATE: 2985402

Parameter	Units	60380803002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	454	455	0	10	

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60380803

QC Batch:	745803	Analysis Method:	SM 3500-Fe B#4
QC Batch Method:	SM 3500-Fe B#4	Analysis Description:	Iron, Ferrous
		Laboratory:	Pace Analytical Services - Kansas City

Associated Lab Samples: 60380803002, 60380803005, 60380803010

METHOD BLANK: 2987614 Matrix: Water

Associated Lab Samples: 60380803002, 60380803005, 60380803010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron, Ferrous	mg/L	<0.20	0.20	09/27/21 15:40	H6

LABORATORY CONTROL SAMPLE: 2987615

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Ferrous	mg/L	2	2.0	98	90-110	H6

SAMPLE DUPLICATE: 2987616

Parameter	Units	60380676002 Result	Dup Result	RPD	Max RPD	Qualifiers
Iron, Ferrous	mg/L	0.28	0.29	4	20	H6

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60380803

QC Batch:	745805	Analysis Method:	SM 3500-Fe B#4
QC Batch Method:	SM 3500-Fe B#4	Analysis Description:	Iron, Ferrous
		Laboratory:	Pace Analytical Services - Kansas City

Associated Lab Samples: 60380803001, 60380803003, 60380803004, 60380803006, 60380803007, 60380803008, 60380803009

METHOD BLANK: 2987621 Matrix: Water

Associated Lab Samples: 60380803001, 60380803003, 60380803004, 60380803006, 60380803007, 60380803008, 60380803009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron, Ferrous	mg/L	<0.20	0.20	09/27/21 15:48	H6

LABORATORY CONTROL SAMPLE: 2987622

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Ferrous	mg/L	2	1.9	97	90-110	H6

SAMPLE DUPLICATE: 2987623

Parameter	Units	60380560004 Result	Dup Result	RPD	Max RPD	Qualifiers
Iron, Ferrous	mg/L	ND	<0.20		20	H6

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60380803

QC Batch: 744762

Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B

Analysis Description: 4500H+B pH

Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60380803001, 60380803003, 60380803004, 60380803005, 60380803006, 60380803007, 60380803008, 60380803009, 60380803010

SAMPLE DUPLICATE: 2983464

Parameter	Units	60380288004 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	10.7	10.7	0	5	H6

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60380803

QC Batch: 744927

Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B

Analysis Description: 4500H+B pH

Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60380803002

SAMPLE DUPLICATE: 2984103

Parameter	Units	20219839002 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	6.6	6.9	4	5	H6

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60380803

QC Batch: 745152

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: 60380803001, 60380803002, 60380803003, 60380803004, 60380803005, 60380803006, 60380803007, 60380803008, 60380803009, 60380803010

METHOD BLANK: 2984851

Matrix: Water

Associated Lab Samples: 60380803001, 60380803002, 60380803003, 60380803004, 60380803005, 60380803006, 60380803007, 60380803008, 60380803009, 60380803010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<1.0	1.0	09/23/21 18:04	
Fluoride	mg/L	<0.20	0.20	09/23/21 18:04	
Sulfate	mg/L	<1.0	1.0	09/23/21 18:04	

METHOD BLANK: 2988047

Matrix: Water

Associated Lab Samples: 60380803001, 60380803002, 60380803003, 60380803004, 60380803005, 60380803006, 60380803007, 60380803008, 60380803009, 60380803010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<1.0	1.0	09/28/21 10:43	
Fluoride	mg/L	<0.20	0.20	09/28/21 10:43	
Sulfate	mg/L	<1.0	1.0	09/28/21 10:43	

METHOD BLANK: 2988424

Matrix: Water

Associated Lab Samples: 60380803001, 60380803002, 60380803003, 60380803004, 60380803005, 60380803006, 60380803007, 60380803008, 60380803009, 60380803010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<1.0	1.0	09/27/21 09:57	
Fluoride	mg/L	<0.20	0.20	09/27/21 09:57	
Sulfate	mg/L	<1.0	1.0	09/27/21 09:57	

LABORATORY CONTROL SAMPLE: 2984852

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	5.2	104	90-110	
Fluoride	mg/L	2.5	2.6	103	90-110	
Sulfate	mg/L	5	5.3	105	90-110	

LABORATORY CONTROL SAMPLE: 2988048

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.9	98	90-110	

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60380803

LABORATORY CONTROL SAMPLE: 2988048

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

LABORATORY CONTROL SAMPLE: 2988425

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.7	95	90-110	
Fluoride	mg/L	2.5	2.6	103	90-110	
Sulfate	mg/L	5	4.8	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2984853 2984854

Parameter	Units	60380851001		2984853		2984854		% Rec Limits	RPD	Max RPD	Qual
		MS Result	MS Spike Conc.	MS Result	MS Spike Conc.	MS Result	MS Spike Conc.				
Chloride	mg/L	215	100	100	330	349	115	134	6	15	M1
Fluoride	mg/L	4.9	50	50	60.1	66.1	110	122	10	15	M1
Sulfate	mg/L	222	100	100	331	352	109	129	6	15	M1

MATRIX SPIKE SAMPLE: 2984855

Parameter	Units	60380803002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	39.8	25	63.7	96	80-120	
Fluoride	mg/L	1.0	2.5	3.7	107	80-120	
Sulfate	mg/L	30.7	25	56.0	101	80-120	

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60380803

QC Batch: 745411	Analysis Method: SM 5310C
QC Batch Method: SM 5310C	Analysis Description: 5310C Dissolved Organic Carbon
	Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60380803001, 60380803002

METHOD BLANK: 2985770 Matrix: Water

Associated Lab Samples: 60380803001, 60380803002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dissolved Organic Carbon	mg/L	<1.0	1.0	09/24/21 09:51	

LABORATORY CONTROL SAMPLE: 2985771

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	5	5.0	101	80-120	

MATRIX SPIKE SAMPLE: 2985768

Parameter	Units	60380763001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	2.5	5	7.9	107	80-120	

SAMPLE DUPLICATE: 2985769

Parameter	Units	60380763001 Result	Dup Result	RPD	Max RPD	Qualifiers
Dissolved Organic Carbon	mg/L	2.5	2.7	6	25	

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELLS C
Pace Project No.: 60380803

QC Batch:	746061	Analysis Method:	SM 5310C
QC Batch Method:	SM 5310C	Analysis Description:	5310C Dissolved Organic Carbon
		Laboratory:	Pace Analytical Services - Kansas City

Associated Lab Samples: 60380803003, 60380803004, 60380803005, 60380803006, 60380803007, 60380803008, 60380803009, 60380803010

METHOD BLANK: 2988458 Matrix: Water
Associated Lab Samples: 60380803003, 60380803004, 60380803005, 60380803006, 60380803007, 60380803008, 60380803009, 60380803010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dissolved Organic Carbon	mg/L	<1.0	1.0	09/29/21 04:10	

LABORATORY CONTROL SAMPLE: 2988459

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	5	5.3	107	80-120	

MATRIX SPIKE SAMPLE: 2988460

Parameter	Units	60380803003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	<1.0	5	5.9	107	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2988462 2988463

Parameter	Units	10579535005 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	4.6	5	5	10.1	10.5	109	117	80-120	4	25	

SAMPLE DUPLICATE: 2988461

Parameter	Units	60380803005 Result	Dup Result	RPD	Max RPD	Qualifiers
Dissolved Organic Carbon	mg/L	2.4	2.3	2	25	

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60380803

QC Batch:	745968	Analysis Method:	EPA 9060
QC Batch Method:	EPA 9060	Analysis Description:	9060 TOC
		Laboratory:	Pace Analytical Services - Kansas City

Associated Lab Samples: 60380803001, 60380803002, 60380803003, 60380803004, 60380803005, 60380803006, 60380803007, 60380803008, 60380803009, 60380803010

METHOD BLANK: 2988069 Matrix: Water
Associated Lab Samples: 60380803001, 60380803002, 60380803003, 60380803004, 60380803005, 60380803006, 60380803007, 60380803008, 60380803009, 60380803010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mean Total Organic Carbon	mg/L	<1.0	1.0	09/28/21 19:23	
Total Organic Carbon	mg/L	<1.0	1.0	09/28/21 19:23	
Total Organic Carbon	mg/L	<1.0	1.0	09/28/21 19:23	
Total Organic Carbon	mg/L	<1.0	1.0	09/28/21 19:23	
Total Organic Carbon	mg/L	<1.0	1.0	09/28/21 19:23	

LABORATORY CONTROL SAMPLE: 2988070

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mean Total Organic Carbon	mg/L	5	5.1	102	80-120	
Total Organic Carbon	mg/L	5	4.9	98	80-120	
Total Organic Carbon	mg/L	5	5.1	102	80-120	
Total Organic Carbon	mg/L	5	5.2	104	80-120	
Total Organic Carbon	mg/L	5	5.1	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2988071 2988072

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Spike Conc.	Result	Spike Conc.	Result						
Mean Total Organic Carbon	mg/L	1.8	5	5	6.4	6.6	91	96	80-120	4	25
Total Organic Carbon	mg/L	1.6	5	5	6.0	6.2	88	93	80-120	4	25
Total Organic Carbon	mg/L	1.9	5	5	6.5	6.7	92	96	80-120	3	25
Total Organic Carbon	mg/L	1.9	5	5	6.6	6.9	93	99	80-120	4	25
Total Organic Carbon	mg/L	1.9	5	5	6.4	6.7	91	96	80-120	4	25

SAMPLE DUPLICATE: 2988073

Parameter	Units	60380803002 Result	Dup Result	RPD	Max RPD	Qualifiers
Mean Total Organic Carbon	mg/L	2.3	2.2	1	25	
Total Organic Carbon	mg/L	2.2	2.1	2	25	
Total Organic Carbon	mg/L	2.3	2.3	0	25	
Total Organic Carbon	mg/L	2.3	2.3	3	25	
Total Organic Carbon	mg/L	2.3	2.3	0	25	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60380803

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.380 ± 0.415 (0.652) C:NA T:87%	pCi/L	10/13/21 15:47	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	1.91 ± 0.718 (1.13) C:62% T:88%	pCi/L	10/07/21 14:22	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	2.29 ± 1.13 (1.78)	pCi/L	10/14/21 15:25	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60380803

Sample: MW-101-091721 **Lab ID: 60380803002** Collected: 09/17/21 09:00 Received: 09/20/21 12:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.0597 ± 0.273 (0.554) C:NA T:90%	pCi/L	10/13/21 15:47	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	1.14 ± 0.552 (0.969) C:63% T:91%	pCi/L	10/07/21 14:23	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.20 ± 0.825 (1.52)	pCi/L	10/14/21 15:25	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60380803

Sample: MW-106-091721 **Lab ID: 60380803003** Collected: 09/17/21 14:00 Received: 09/20/21 12:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.0615 ± 0.319 (0.662) C:NA T:88%	pCi/L	10/13/21 15:47	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.666 ± 0.495 (0.976) C:61% T:91%	pCi/L	10/07/21 14:23	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.728 ± 0.814 (1.64)	pCi/L	10/14/21 15:25	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60380803

Sample: MW-107-091721 **Lab ID: 60380803004** Collected: 09/17/21 12:40 Received: 09/20/21 12:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.333 ± 0.535 (0.926) C:NA T:84%	pCi/L	10/13/21 15:47	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	1.21 ± 0.649 (1.18) C:57% T:81%	pCi/L	10/07/21 14:23	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.54 ± 1.18 (2.11)	pCi/L	10/14/21 15:25	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60380803

Sample: MW-108-091721 **Lab ID: 60380803005** Collected: 09/17/21 10:25 Received: 09/20/21 12:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.0530 ± 0.345 (0.695) C:NA T:92%	pCi/L	10/13/21 15:47	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	1.21 ± 0.630 (1.13) C:59% T:84%	pCi/L	10/07/21 14:23	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.26 ± 0.975 (1.83)	pCi/L	10/14/21 15:25	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60380803

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: MW-109-091721 Lab ID: 60380803006 Collected: 09/17/21 14:10 Received: 09/20/21 12:30 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.264 ± 0.275 (0.388) C:NA T:89%	pCi/L	10/13/21 15:47	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.800 ± 0.547 (1.06) C:57% T:88%	pCi/L	10/07/21 14:23	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.06 ± 0.822 (1.45)	pCi/L	10/14/21 15:25	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60380803

Sample: MW-110-091721 **Lab ID: 60380803007** Collected: 09/17/21 15:30 Received: 09/20/21 12:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	-0.255 ± 0.468 (1.06) C:NA T:89%	pCi/L	10/13/21 16:00	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	1.14 ± 0.539 (0.923) C:66% T:85%	pCi/L	10/07/21 14:23	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.14 ± 1.01 (1.98)	pCi/L	10/14/21 15:25	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60380803

Sample: MW-112-091721 **Lab ID: 60380803008** Collected: 09/17/21 17:25 Received: 09/20/21 12:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.115 ± 0.529 (1.00) C:NA T:94%	pCi/L	10/13/21 16:00	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	1.47 ± 0.651 (1.10) C:59% T:85%	pCi/L	10/07/21 14:23	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.59 ± 1.18 (2.10)	pCi/L	10/14/21 15:25	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60380803

Sample: MW-113-091721 **Lab ID: 60380803009** Collected: 09/17/21 15:55 Received: 09/20/21 12:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.0493 ± 0.290 (0.592) C:NA T:95%	pCi/L	10/13/21 16:00	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	1.20 ± 0.561 (0.953) C:59% T:91%	pCi/L	10/07/21 14:23	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.25 ± 0.851 (1.55)	pCi/L	10/14/21 15:25	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60380803

Sample: LEC-CMA-DUP02-091721 **Lab ID:** 60380803010 Collected: 09/17/21 10:25 Received: 09/20/21 12:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.255 ± 0.389 (0.669) C:NA T:93%	pCi/L	10/13/21 16:00	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.721 ± 0.514 (1.00) C:58% T:91%	pCi/L	10/07/21 14:23	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.976 ± 0.903 (1.67)	pCi/L	10/14/21 15:25	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60380803

QC Batch:	465835	Analysis Method:	EPA 903.1
QC Batch Method:	EPA 903.1	Analysis Description:	903.1 Radium-226
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 60380803001, 60380803002, 60380803003, 60380803004, 60380803005, 60380803006, 60380803007, 60380803008, 60380803009, 60380803010

METHOD BLANK: 2249339 Matrix: Water

Associated Lab Samples: 60380803001, 60380803002, 60380803003, 60380803004, 60380803005, 60380803006, 60380803007, 60380803008, 60380803009, 60380803010

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.209 ± 0.338 (0.589) C:NA T:90%	pCi/L	10/13/21 15:30	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60380803

QC Batch:	465836	Analysis Method:	EPA 904.0
QC Batch Method:	EPA 904.0	Analysis Description:	904.0 Radium 228
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 60380803001, 60380803002, 60380803003, 60380803004, 60380803005, 60380803006, 60380803007, 60380803008, 60380803009, 60380803010

METHOD BLANK: 2249340 Matrix: Water

Associated Lab Samples: 60380803001, 60380803002, 60380803003, 60380803004, 60380803005, 60380803006, 60380803007, 60380803008, 60380803009, 60380803010

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	-0.231 ± 0.336 (0.835) C:72% T:78%	pCi/L	10/07/21 11:07	

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: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60380803

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

Act - Activity

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

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

1e Dissolved results confirmed higher than totals by bottle check

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

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.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60380803

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60380803001	MW-A-091721	EPA 200.7	745980	EPA 200.7	746085
60380803002	MW-101-091721	EPA 200.7	745980	EPA 200.7	746085
60380803003	MW-106-091721	EPA 200.7	745980	EPA 200.7	746085
60380803004	MW-107-091721	EPA 200.7	745980	EPA 200.7	746085
60380803005	MW-108-091721	EPA 200.7	745980	EPA 200.7	746085
60380803006	MW-109-091721	EPA 200.7	745980	EPA 200.7	746085
60380803007	MW-110-091721	EPA 200.7	745980	EPA 200.7	746085
60380803008	MW-112-091721	EPA 200.7	745980	EPA 200.7	746085
60380803009	MW-113-091721	EPA 200.7	745980	EPA 200.7	746085
60380803010	LEC-CMA-DUP02-091721	EPA 200.7	745980	EPA 200.7	746085
60380803011	EB-091721	EPA 200.7	745980	EPA 200.7	746085
60380803001	MW-A-091721	EPA 200.7	745981	EPA 200.7	746084
60380803002	MW-101-091721	EPA 200.7	745981	EPA 200.7	746084
60380803003	MW-106-091721	EPA 200.7	745981	EPA 200.7	746084
60380803004	MW-107-091721	EPA 200.7	745981	EPA 200.7	746084
60380803005	MW-108-091721	EPA 200.7	745981	EPA 200.7	746084
60380803006	MW-109-091721	EPA 200.7	745981	EPA 200.7	746084
60380803007	MW-110-091721	EPA 200.7	745981	EPA 200.7	746084
60380803008	MW-112-091721	EPA 200.7	745981	EPA 200.7	746084
60380803009	MW-113-091721	EPA 200.7	745981	EPA 200.7	746084
60380803010	LEC-CMA-DUP02-091721	EPA 200.7	745981	EPA 200.7	746084
60380803001	MW-A-091721	EPA 3010	745513	EPA 6010	745591
60380803002	MW-101-091721	EPA 3010	745513	EPA 6010	745591
60380803003	MW-106-091721	EPA 3010	745513	EPA 6010	745591
60380803004	MW-107-091721	EPA 3010	745513	EPA 6010	745591
60380803005	MW-108-091721	EPA 3010	745513	EPA 6010	745591
60380803006	MW-109-091721	EPA 3010	745513	EPA 6010	745591
60380803007	MW-110-091721	EPA 3010	745513	EPA 6010	745591
60380803008	MW-112-091721	EPA 3010	745513	EPA 6010	745591
60380803009	MW-113-091721	EPA 3010	745513	EPA 6010	745591
60380803010	LEC-CMA-DUP02-091721	EPA 3010	745513	EPA 6010	745591
60380803011	EB-091721	EPA 3010	745513	EPA 6010	745591
60380803001	MW-A-091721	EPA 200.8	745509	EPA 200.8	745590
60380803002	MW-101-091721	EPA 200.8	745509	EPA 200.8	745590
60380803003	MW-106-091721	EPA 200.8	745509	EPA 200.8	745590
60380803004	MW-107-091721	EPA 200.8	745509	EPA 200.8	745590
60380803005	MW-108-091721	EPA 200.8	745509	EPA 200.8	745590
60380803006	MW-109-091721	EPA 200.8	745509	EPA 200.8	745590
60380803007	MW-110-091721	EPA 200.8	745509	EPA 200.8	745590
60380803008	MW-112-091721	EPA 200.8	745509	EPA 200.8	745590
60380803009	MW-113-091721	EPA 200.8	745509	EPA 200.8	745590
60380803010	LEC-CMA-DUP02-091721	EPA 200.8	745509	EPA 200.8	745590
60380803011	EB-091721	EPA 200.8	745509	EPA 200.8	745590
60380803001	MW-A-091721	EPA 903.1	465835		
60380803002	MW-101-091721	EPA 903.1	465835		
60380803003	MW-106-091721	EPA 903.1	465835		
60380803004	MW-107-091721	EPA 903.1	465835		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60380803

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60380803005	MW-108-091721	EPA 903.1	465835		
60380803006	MW-109-091721	EPA 903.1	465835		
60380803007	MW-110-091721	EPA 903.1	465835		
60380803008	MW-112-091721	EPA 903.1	465835		
60380803009	MW-113-091721	EPA 903.1	465835		
60380803010	LEC-CMA-DUP02-091721	EPA 903.1	465835		
60380803001	MW-A-091721	EPA 904.0	465836		
60380803002	MW-101-091721	EPA 904.0	465836		
60380803003	MW-106-091721	EPA 904.0	465836		
60380803004	MW-107-091721	EPA 904.0	465836		
60380803005	MW-108-091721	EPA 904.0	465836		
60380803006	MW-109-091721	EPA 904.0	465836		
60380803007	MW-110-091721	EPA 904.0	465836		
60380803008	MW-112-091721	EPA 904.0	465836		
60380803009	MW-113-091721	EPA 904.0	465836		
60380803010	LEC-CMA-DUP02-091721	EPA 904.0	465836		
60380803001	MW-A-091721	Total Radium Calculation	468229		
60380803002	MW-101-091721	Total Radium Calculation	468229		
60380803003	MW-106-091721	Total Radium Calculation	468229		
60380803004	MW-107-091721	Total Radium Calculation	468229		
60380803005	MW-108-091721	Total Radium Calculation	468229		
60380803006	MW-109-091721	Total Radium Calculation	468229		
60380803007	MW-110-091721	Total Radium Calculation	468229		
60380803008	MW-112-091721	Total Radium Calculation	468229		
60380803009	MW-113-091721	Total Radium Calculation	468229		
60380803010	LEC-CMA-DUP02-091721	Total Radium Calculation	468229		
60380803001	MW-A-091721	SM 2320B	745654		
60380803002	MW-101-091721	SM 2320B	745654		
60380803003	MW-106-091721	SM 2320B	745654		
60380803004	MW-107-091721	SM 2320B	745654		
60380803005	MW-108-091721	SM 2320B	745654		
60380803006	MW-109-091721	SM 2320B	745654		
60380803007	MW-110-091721	SM 2320B	745654		
60380803008	MW-112-091721	SM 2320B	745654		
60380803009	MW-113-091721	SM 2320B	745654		
60380803010	LEC-CMA-DUP02-091721	SM 2320B	745945		
60380803001	MW-A-091721	SM 2540C	745299		
60380803002	MW-101-091721	SM 2540C	745299		
60380803003	MW-106-091721	SM 2540C	745299		
60380803004	MW-107-091721	SM 2540C	745299		
60380803005	MW-108-091721	SM 2540C	745299		
60380803006	MW-109-091721	SM 2540C	745299		
60380803007	MW-110-091721	SM 2540C	745299		
60380803008	MW-112-091721	SM 2540C	745299		
60380803009	MW-113-091721	SM 2540C	745299		
60380803010	LEC-CMA-DUP02-091721	SM 2540C	745299		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60380803

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60380803001	MW-A-091721	SM 3500-Fe B#4	745805		
60380803002	MW-101-091721	SM 3500-Fe B#4	745803		
60380803003	MW-106-091721	SM 3500-Fe B#4	745805		
60380803004	MW-107-091721	SM 3500-Fe B#4	745805		
60380803005	MW-108-091721	SM 3500-Fe B#4	745803		
60380803006	MW-109-091721	SM 3500-Fe B#4	745805		
60380803007	MW-110-091721	SM 3500-Fe B#4	745805		
60380803008	MW-112-091721	SM 3500-Fe B#4	745805		
60380803009	MW-113-091721	SM 3500-Fe B#4	745805		
60380803010	LEC-CMA-DUP02-091721	SM 3500-Fe B#4	745803		
60380803001	MW-A-091721	SM 4500-H+B	744762		
60380803002	MW-101-091721	SM 4500-H+B	744927		
60380803003	MW-106-091721	SM 4500-H+B	744762		
60380803004	MW-107-091721	SM 4500-H+B	744762		
60380803005	MW-108-091721	SM 4500-H+B	744762		
60380803006	MW-109-091721	SM 4500-H+B	744762		
60380803007	MW-110-091721	SM 4500-H+B	744762		
60380803008	MW-112-091721	SM 4500-H+B	744762		
60380803009	MW-113-091721	SM 4500-H+B	744762		
60380803010	LEC-CMA-DUP02-091721	SM 4500-H+B	744762		
60380803001	MW-A-091721	EPA 300.0	745152		
60380803002	MW-101-091721	EPA 300.0	745152		
60380803003	MW-106-091721	EPA 300.0	745152		
60380803004	MW-107-091721	EPA 300.0	745152		
60380803005	MW-108-091721	EPA 300.0	745152		
60380803006	MW-109-091721	EPA 300.0	745152		
60380803007	MW-110-091721	EPA 300.0	745152		
60380803008	MW-112-091721	EPA 300.0	745152		
60380803009	MW-113-091721	EPA 300.0	745152		
60380803010	LEC-CMA-DUP02-091721	EPA 300.0	745152		
60380803001	MW-A-091721	SM 5310C	745411		
60380803002	MW-101-091721	SM 5310C	745411		
60380803003	MW-106-091721	SM 5310C	746061		
60380803004	MW-107-091721	SM 5310C	746061		
60380803005	MW-108-091721	SM 5310C	746061		
60380803006	MW-109-091721	SM 5310C	746061		
60380803007	MW-110-091721	SM 5310C	746061		
60380803008	MW-112-091721	SM 5310C	746061		
60380803009	MW-113-091721	SM 5310C	746061		
60380803010	LEC-CMA-DUP02-091721	SM 5310C	746061		
60380803001	MW-A-091721	EPA 9060	745968		
60380803002	MW-101-091721	EPA 9060	745968		
60380803003	MW-106-091721	EPA 9060	745968		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60380803

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60380803004	MW-107-091721	EPA 9060	745968		
60380803005	MW-108-091721	EPA 9060	745968		
60380803006	MW-109-091721	EPA 9060	745968		
60380803007	MW-110-091721	EPA 9060	745968		
60380803008	MW-112-091721	EPA 9060	745968		
60380803009	MW-113-091721	EPA 9060	745968		
60380803010	LEC-CMA-DUP02-091721	EPA 9060	745968		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

WO# : 60380803



Client Name: Energy Kansas Metro 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 2200

Thermometer Used: T296 Type of Ice: Wet Blue None

Cooler Temperature (°C): As-read 2.7, 3.2, 3.9 Corr. Factor 0.3 Corrected 2.4, 2.9, 3.6
 Temperature should be above freezing to 6°C 2.8, 1.9

Date and initials of person examining contents: 9/21/2011 MKK

Chain of Custody present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Chain of Custody relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Samples arrived within holding time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Short Hold Time analyses (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<u>Fe²⁺</u>
Rush Turn Around Time requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	<u>No EPSC rec'd for sulfide on all samples</u>
Correct containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Unpreserved 5035A / TX1005/1006 soils frozen in 48hrs?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Filtered volume received for dissolved tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Sample labels match COC: Date / time / ID / analyses	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Samples contain multiple phases? Matrix: <u>WT</u>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> 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# <u>W03173</u>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> 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)	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Potassium iodide test strip turns blue/purple? (Preserve)	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Trip Blank present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Headspace in VOA vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Samples from USDA Regulated Area: State:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Additional labels attached to 5035A / TX1005 vials in the field?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> 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: _____

Internal Transfer Chain of Custody



Samples Pre-Logged into eCOC.

State of Origin: KS
 Cert. Needed: Yes No

www.pacelabs.com

Workorder: 60380803 Workorder Name: LEC PERIMETER ASH POND WELLS COWNER Received Date: 9/20/2021 Results Requested By: 9/29/2021

Report To: Subcontract To: Requested Analysis

Hank Kapka
 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

WO#: 30442532



Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers		LAB USE ONLY
						HN03		
1	MW-A-091721	PS	9/17/2021 17:10	60380803001	Water	2		001
2	MW-101-091721	PS	9/17/2021 09:00	60380803002	Water	2		002
3	MW-106-091721	PS	9/17/2021 14:00	60380803003	Water	2		003
4	MW-107-091721	PS	9/17/2021 12:40	60380803004	Water	2		004
5	MW-108-091721	PS	9/17/2021 10:25	60380803005	Water	2		005
6	MW-109-091721	PS	9/17/2021 14:10	60380803006	Water	2		006
7	MW-110-091721	PS	9/17/2021 15:30	60380803007	Water	2		007
8	MW-112-091721	PS	9/17/2021 17:25	60380803008	Water	2		008
9	MW-113-091721	PS	9/17/2021 15:55	60380803009	Water	2		009
10	LEC-CMA-DUP02-091721	PS	9/17/2021 10:25	60380803010	Water	2		010

Ra 226 (Inc. QC) Ra 228 - Combined

Comments

Transfers	Released By	Date/Time	Received By	Date/Time
1	Hank Kapka	9/21/2021	Hank Kapka	9/23/21 1000
2				
3				

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.

Pittsburgh Lab Sample Condition Upon Receipt



Client Name: Pace KS

Project # _____

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Tracking #: 50020654 9664/9701

Label	<u>[Signature]</u>
LIMS Login	<u>[Signature]</u>

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	N/A	pH paper Lot#	Date and initials of person examining contents:
				<u>10100411</u>	<u>AE 9/27/21</u>
Chain of Custody Present:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1.	
Chain of Custody Filled Out:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2.	
Chain of Custody Relinquished:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3.	
Sampler Name & Signature on COC:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4.	
Sample Labels match COC:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	5.	
-Includes date/time/ID Matrix: <u>WT</u>					
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6.	
Short Hold Time Analysis (<72hr remaining):	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	7.	
Rush Turn Around Time Requested:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	8.	
Sufficient Volume:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9.	
Correct Containers Used:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10.	
-Pace Containers Used:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Containers Intact:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	11.	
Orthophosphate field filtered	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	12.	
Hex Cr Aqueous sample field filtered	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	13.	
Organic Samples checked for dechlorination:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	14.	
Filtered volume received for Dissolved tests	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	15.	
All containers have been checked for preservation.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	16.	
exceptions: VOA, coliform, TOC, O&G, Phenolics, Radon, Non-aqueous matrix					
All containers meet method preservation requirements.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Initial when completed	Date/time of preservation
				Lot # of added preservative	
Headspace in VOA Vials (>6mm):	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	17.	
Trip Blank Present:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	18.	
Trip Blank Custody Seals Present	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
Rad Samples Screened < 0.5 mrem/hr	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Initial when completed	Date: <u>9/27/21</u> Survey Meter SN: <u>1563</u>

MO# : 30442532
 PM: CAF Due Date: 09/29/21
 CLIENT: PACE_60_LEKS

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____ Contacted By: _____

Comments/ Resolution: _____

A check in this box indicates that additional information has been stored in ereports.

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)
 *PM review is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-228
Analyst: VAL
Date: 10/5/2021
Worklist: 62881
Matrix: WT

Method Blank Assessment	
MB Sample ID	2249340
MB concentration:	-0.231
M/B 2 Sigma CSU:	0.336
MB MDC:	0.835
MB Numerical Performance Indicator:	-1.34
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCS (Y or N)?	
	LCS62881	LCS62881
Count Date:	10/7/2021	10/7/2021
Spike I.D.:	21-029	21-029
Decay Corrected Spike Concentration (pCi/mL):	37.936	37.936
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.814	0.814
Target Conc. (pCi/L, g, F):	4.594	4.594
Uncertainty (Calculated):	0.225	0.228
Result (pCi/L, g, F):	4.739	5.121
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	1.085	1.155
Numerical Performance Indicator:	0.26	0.76
Percent Recovery:	103.16%	109.82%
Status vs Numerical Indicator:	N/A	N/A
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 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:		

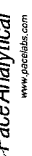
Duplicate Sample Assessment	Matrix Spike/Matrix Spike Duplicate Sample Assessment
Sample I.D.: Duplicate Sample I.D.: Sample Result (pCi/L, g, F): Duplicate Sample Result (pCi/L, g, F): Sample Result 2 Sigma CSU (pCi/L, g, F): Duplicate Sample Result 2 Sigma CSU (pCi/L, g, F): Are sample and/or duplicate results below RL? Duplicate Numerical Performance Indicator: Duplicate Sample Numerical Performance Indicator: Duplicate Status vs Numerical Indicator: Duplicate Status vs RPD: % RPD Limit:	Sample I.D.: Duplicate Sample I.D.: Sample Result (pCi/L, g, F): Duplicate Sample Result (pCi/L, g, F): Matrix Spike Result 2 Sigma CSU (pCi/L, g, F): Duplicate Matrix Spike Result 2 Sigma CSU (pCi/L, g, F): Duplicate Numerical Performance Indicator: Duplicate Matrix 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:

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Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226
Analyst: MK1
Date: 10/4/2021
Batch ID: 62880
Matrix: DW

Method Blank Assessment	
MB Sample ID	2249339
MB concentration:	0.209
MB Counting Uncertainty:	0.337
MB MDC:	0.589
MB Numerical Performance Indicator:	1.21
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	
LCS#	(Y or N)?
LCS62880	10/13/2021
Count Date:	10/13/2021
Spike I.D.:	20-032
Spike Concentration (pCi/mL):	32.169
Volume Used (mL):	0.10
Aliquot Volume (L, g, F):	0.654
Target Conc. (pCi/L, g, F):	4.916
Uncertainty (Calculated):	0.232
Result (pCi/L, g, F):	5.086
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.899
Numerical Performance Indicator:	0.32
Percent Recovery:	103.03%
Status vs Numerical Indicator:	N/A
Status vs Recovery:	Pass
Upper % Recovery Limits:	135%
Lower % Recovery Limits:	73%

Duplicate Sample Assessment	
Sample I.D.:	LCS62880
Duplicate Sample I.D.:	LCS62880
Sample Result (pCi/L, g, F):	5.086
Sample Result Counting Uncertainty (pCi/L, g, F):	0.899
Sample Duplicate Result (pCi/L, g, F):	6.100
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	1.037
Are sample and/or duplicate results below RL?	NO
Duplicate Numerical Performance Indicator:	-1.449
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	18.55%
Duplicate Status vs Numerical Indicator:	N/A
Duplicate Status vs RPD:	Pass
% RPD Limit:	32%

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

Comments:

10/14/21

Sample Matrix	MS/MSD 1	MS/MSD 2
Sample Matrix Spike Control Assessment 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): 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:		

Matrix Spike	Matrix Spike Duplicate	Sample Assessment
		Sample I.D. Sample MS I.D. Sample MSD I.D. Matrix Spike Result Counting Uncertainty (pCi/L, g, F): 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:

November 29, 2021

Melissa Michels
Evergy, Inc.
818 Kansas Avenue
Topeka, KS 66612

RE: Project: LEC PERIMETER ASH POND WELLS C
Pace Project No.: 60382886

Dear Melissa Michels:

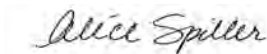
Enclosed are the analytical results for sample(s) received by the laboratory on October 08, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise 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@pacelabs.com
(913)599-5665
PM Lab Management

Enclosures

cc: Andrew Hare, Evergy, Inc.
Laura Hines, Evergy, Inc.
Jake Humphrey, Evergy, Inc.
Tabitha Hylton, Evergy Kansas Central, Inc. Lawrence
Energy Center
Samantha Kaney, Haley & Aldrich
Jared Morrison, Evergy, Inc.
Danielle Oberbroeckling, Haley & Aldrich
Melanie Sataneck, Haley & Aldrich, Inc.



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60382886

Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601

ANAB DOD-ELAP Rad Accreditation #: L2417

Alabama Certification #: 41590

Arizona Certification #: AZ0734

Arkansas Certification

California Certification #: 04222CA

Colorado Certification #: PA01547

Connecticut Certification #: PH-0694

Delaware Certification

EPA Region 4 DW Rad

Florida/TNI Certification #: E87683

Georgia Certification #: C040

Florida: Cert E871149 SEKS WET

Guam Certification

Hawaii Certification

Idaho Certification

Illinois Certification

Indiana Certification

Iowa Certification #: 391

Kansas/TNI Certification #: E-10358

Kentucky Certification #: KY90133

KY WW Permit #: KY0098221

KY WW Permit #: KY0000221

Louisiana DHH/TNI Certification #: LA180012

Louisiana DEQ/TNI Certification #: 4086

Maine Certification #: 2017020

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 #: PA014572018-1

New Hampshire/TNI Certification #: 297617

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 #: PA200002-010

Pennsylvania/TNI Certification #: 65-00282

Puerto Rico Certification #: PA01457

Rhode Island Certification #: 65-00282

South Dakota Certification

Tennessee Certification #: 02867

Texas/TNI Certification #: T104704188-17-3

Utah/TNI Certification #: PA014572017-9

USDA Soil Permit #: P330-17-00091

Vermont Dept. of Health: ID# VT-0282

Virgin Island/PADEP Certification

Virginia/VELAP Certification #: 9526

Washington Certification #: C868

West Virginia DEP Certification #: 143

West Virginia DHHR Certification #: 9964C

Wisconsin Approve List for Rad

Wyoming Certification #: 8TMS-L

Pace Analytical Services Kansas

9608 Loiret Boulevard, Lenexa, KS 66219

Missouri Inorganic Drinking Water Certification #: 10090

Arkansas Drinking Water

Arkansas Certification #: 20-020-0

Arkansas Drinking Water

Illinois Certification #: 2000302021-3

Iowa Certification #: 118

Kansas/NELAP Certification #: E-10116

Louisiana Certification #: 03055

Nevada Certification #: KS000212020-2

Oklahoma Certification #: 9205/9935

Florida: Cert E871149 SEKS WET

Texas Certification #: T104704407-19-12

Utah Certification #: KS000212019-9

Illinois Certification #: 004592

Kansas Field Laboratory Accreditation: # E-92587

Missouri SEKS Micro Certification: 10070

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60382886

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60382886001	MW-B	Water	10/08/21 11:50	10/08/21 15:20
60382886002	MW-102	Water	10/08/21 13:15	10/08/21 15:20

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60382886

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory		
60382886001	MW-B	EPA 200.7	MA1	9	PASI-K		
		EPA 200.7	MA1	5	PASI-K		
		EPA 6010	MA1	1	PASI-K		
		EPA 200.8	JGP	3	PASI-K		
		EPA 903.1	MK1	1	PASI-PA		
		EPA 904.0	VAL	1	PASI-PA		
		Total Radium Calculation	JAL	1	PASI-PA		
		SM 2320B	KB	2	PASI-K		
		SM 2540C	BLA	1	PASI-K		
		SM 4500-H+B	KB	1	PASI-K		
		SM 4500-S-2 D	AG1	1	PASI-K		
		EPA 300.0	ALH	3	PASI-K		
		SM 5310C	HM1	1	PASI-K		
		EPA 9060	HM1	5	PASI-K		
		60382886002	MW-102	EPA 200.7	MA1	9	PASI-K
				EPA 200.7	MA1	5	PASI-K
EPA 6010	MA1			1	PASI-K		
EPA 200.8	JGP			3	PASI-K		
EPA 903.1	MK1			1	PASI-PA		
EPA 904.0	VAL			1	PASI-PA		
Total Radium Calculation	JAL			1	PASI-PA		
SM 2320B	KB			2	PASI-K		
SM 2540C	BLA			1	PASI-K		
SM 4500-H+B	KB			1	PASI-K		
SM 4500-S-2 D	AG1			1	PASI-K		
EPA 300.0	ALH			3	PASI-K		
SM 5310C	HM1			1	PASI-K		
EPA 9060	HM1			5	PASI-K		

PASI-K = Pace Analytical Services - Kansas City

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60382886

Method: EPA 200.7

Description: 200.7 Metals, Total

Client: Evergy Kansas Central, Inc.

Date: November 29, 2021

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: 749805

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60382886001

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

- MS (Lab ID: 3002396)
 - Calcium
- MSD (Lab ID: 3002397)
 - Calcium

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60382886

Method: EPA 200.7

Description: 200.7 Metals, Dissolved

Client: Evergy Kansas Central, Inc.

Date: November 29, 2021

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:

Analyte Comments:

QC Batch: 749808

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

- MW-B (Lab ID: 60382886001)
 - Lithium, Dissolved

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60382886

Method: EPA 6010

Description: 6010 MET ICP

Client: Evergy Kansas Central, Inc.

Date: November 29, 2021

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:

Analyte Comments:

QC Batch: 749807

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

- MW-B (Lab ID: 60382886001)
 - Lithium, Total Recoverable

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60382886

Method: EPA 200.8

Description: 200.8 MET ICPMS

Client: Evergy Kansas Central, Inc.

Date: November 29, 2021

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.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60382886

Method: EPA 903.1

Description: 903.1 Radium 226

Client: Evergy Kansas Central, Inc.

Date: November 29, 2021

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:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60382886

Method: EPA 904.0

Description: 904.0 Radium 228

Client: Evergy Kansas Central, Inc.

Date: November 29, 2021

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:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60382886

Method: Total Radium Calculation

Description: Total Radium 228+226

Client: Evergy Kansas Central, Inc.

Date: November 29, 2021

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:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60382886

Method: SM 2320B

Description: 2320B Alkalinity

Client: Evergy Kansas Central, Inc.

Date: November 29, 2021

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:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60382886

Method: SM 2540C

Description: 2540C Total Dissolved Solids

Client: Evergy Kansas Central, Inc.

Date: November 29, 2021

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:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60382886

Method: SM 4500-H+B

Description: 4500H+ pH, Electrometric

Client: Evergy Kansas Central, Inc.

Date: November 29, 2021

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.

H6: Analysis initiated outside of the 15 minute EPA required holding time.

- MW-102 (Lab ID: 60382886002)
- MW-B (Lab ID: 60382886001)

Method Blank:

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

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits 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:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60382886

Method: SM 4500-S-2 D

Description: 4500S2D Sulfide, Total

Client: Evergy Kansas Central, Inc.

Date: November 29, 2021

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.

QC Batch: 749559

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60383051004

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

- MS (Lab ID: 3001641)
 - Sulfide, Total
- MSD (Lab ID: 3001642)
 - Sulfide, Total

Duplicate Sample:

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

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60382886

Method: EPA 300.0

Description: 300.0 IC Anions 28 Days

Client: Evergy Kansas Central, Inc.

Date: November 29, 2021

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: 749861

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60383241002

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

- MS (Lab ID: 3002673)
 - Chloride
 - Fluoride
 - Sulfate

- MSD (Lab ID: 3002674)
 - Sulfate

R1: RPD value was outside control limits.

- MSD (Lab ID: 3002674)
 - Chloride
 - Fluoride

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60382886

Method: SM 5310C

Description: 5310C Diss. Organic Carbon LF

Client: Evergy Kansas Central, Inc.

Date: November 29, 2021

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:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60382886

Method: EPA 9060

Description: Total Organic Carbon

Client: Evergy Kansas Central, Inc.

Date: November 29, 2021

General Information:

2 samples were analyzed for EPA 9060 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.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60382886

Sample: MW-B	Lab ID: 60382886001	Collected: 10/08/21 11:50	Received: 10/08/21 15:20	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								
Barium, Total Recoverable	0.29	mg/L	0.0050	1	10/15/21 14:02	10/18/21 18:14	7440-39-3	
Boron, Total Recoverable	<0.10	mg/L	0.10	1	10/15/21 14:02	10/18/21 18:14	7440-42-8	
Calcium, Total Recoverable	178	mg/L	0.60	3	10/15/21 14:02	10/19/21 10:44	7440-70-2	M1
Iron, Total Recoverable	0.26	mg/L	0.050	1	10/15/21 14:02	10/18/21 18:14	7439-89-6	
Magnesium, Total Recoverable	21.7	mg/L	0.050	1	10/15/21 14:02	10/18/21 18:14	7439-95-4	
Manganese, Total Recoverable	3.1	mg/L	0.0050	1	10/15/21 14:02	10/18/21 18:14	7439-96-5	
Potassium, Total Recoverable	8.5	mg/L	1.5	3	10/15/21 14:02	10/19/21 10:44	7440-09-7	
Sodium, Total Recoverable	5.1	mg/L	0.50	1	10/15/21 14:02	10/18/21 18:14	7440-23-5	
Total Hardness by 2340B, Total Recoverable	533	mg/L	1.5	3	10/15/21 14:02	10/19/21 10:44		
200.7 Metals, Dissolved								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Arsenic, Dissolved	<0.010	mg/L	0.010	1	10/15/21 15:10	10/18/21 18:44	7440-38-2	
Iron, Dissolved	<0.050	mg/L	0.050	1	10/15/21 15:10	10/18/21 18:44	7439-89-6	
Lithium, Dissolved	<0.030	mg/L	0.030	3	10/15/21 15:10	10/19/21 10:33	7439-93-2	D3
Manganese, Dissolved	0.28	mg/L	0.0050	1	10/15/21 15:10	10/18/21 18:44	7439-96-5	
Molybdenum, Dissolved	<0.020	mg/L	0.020	1	10/15/21 15:10	10/18/21 18:44	7439-98-7	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Total Recoverable	<0.030	mg/L	0.030	3	10/15/21 14:02	10/19/21 11:11	7439-93-2	D3
200.8 MET ICPMS								
Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Pace Analytical Services - Kansas City								
Arsenic, Total Recoverable	0.0068	mg/L	0.0010	1	10/15/21 14:02	10/18/21 18:16	7440-38-2	
Cobalt, Total Recoverable	0.013	mg/L	0.0010	1	10/15/21 14:02	10/19/21 15:37	7440-48-4	
Molybdenum, Total Recoverable	0.021	mg/L	0.0010	1	10/15/21 14:02	10/18/21 18:16	7439-98-7	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Kansas City								
Alkalinity,Bicarbonate (CaCO3)	406	mg/L	20.0	1		10/18/21 13:15		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	20.0	1		10/18/21 13:15		
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Kansas City								
Total Dissolved Solids	589	mg/L	10.0	1		10/15/21 13:31		
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		10/19/21 10:41		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		10/15/21 11:36	18496-25-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60382886

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Sample: MW-B								
Lab ID: 60382886001								
Collected: 10/08/21 11:50								
Received: 10/08/21 15:20								
Matrix: Water								
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0								
Pace Analytical Services - Kansas City								
Chloride	10.8	mg/L	1.0	1		10/18/21 15:05	16887-00-6	
Fluoride	0.57	mg/L	0.20	1		10/18/21 15:05	16984-48-8	
Sulfate	66.7	mg/L	20.0	20		10/18/21 15:17	14808-79-8	
5310C Diss. Organic Carbon LF								
Analytical Method: SM 5310C								
Pace Analytical Services - Kansas City								
Dissolved Organic Carbon	1.4	mg/L	1.0	1		10/18/21 13:16		
Total Organic Carbon								
Analytical Method: EPA 9060								
Pace Analytical Services - Kansas City								
Total Organic Carbon	1.6	mg/L	1.0	1		10/18/21 11:34	7440-44-0	
Total Organic Carbon	1.8	mg/L	1.0	1		10/18/21 11:34	7440-44-0	
Total Organic Carbon	1.8	mg/L	1.0	1		10/18/21 11:34	7440-44-0	
Total Organic Carbon	1.8	mg/L	1.0	1		10/18/21 11:34	7440-44-0	
Mean Total Organic Carbon	1.7	mg/L	1.0	1		10/18/21 11:34	7440-44-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60382886

Sample: MW-102	Lab ID: 60382886002	Collected: 10/08/21 13:15	Received: 10/08/21 15:20	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								
Barium, Total Recoverable	0.13	mg/L	0.0050	1	10/15/21 14:02	10/18/21 18:21	7440-39-3	
Boron, Total Recoverable	0.85	mg/L	0.10	1	10/15/21 14:02	10/18/21 18:21	7440-42-8	
Calcium, Total Recoverable	120	mg/L	0.60	3	10/15/21 14:02	10/19/21 10:50	7440-70-2	
Iron, Total Recoverable	1.5	mg/L	0.050	1	10/15/21 14:02	10/18/21 18:21	7439-89-6	
Magnesium, Total Recoverable	37.1	mg/L	0.050	1	10/15/21 14:02	10/18/21 18:21	7439-95-4	
Manganese, Total Recoverable	0.45	mg/L	0.0050	1	10/15/21 14:02	10/18/21 18:21	7439-96-5	
Potassium, Total Recoverable	8.6	mg/L	1.5	3	10/15/21 14:02	10/19/21 10:50	7440-09-7	
Sodium, Total Recoverable	20.6	mg/L	0.50	1	10/15/21 14:02	10/18/21 18:21	7440-23-5	
Total Hardness by 2340B, Total Recoverable	452	mg/L	1.5	3	10/15/21 14:02	10/19/21 10:50		
200.7 Metals, Dissolved								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Arsenic, Dissolved	<0.010	mg/L	0.010	1	10/15/21 15:10	10/18/21 18:51	7440-38-2	
Iron, Dissolved	1.5	mg/L	0.050	1	10/15/21 15:10	10/18/21 18:51	7439-89-6	
Lithium, Dissolved	0.032	mg/L	0.030	3	10/15/21 15:10	10/19/21 10:39	7439-93-2	D9
Manganese, Dissolved	0.45	mg/L	0.0050	1	10/15/21 15:10	10/18/21 18:51	7439-96-5	
Molybdenum, Dissolved	0.060	mg/L	0.020	1	10/15/21 15:10	10/18/21 18:51	7439-98-7	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Total Recoverable	0.031	mg/L	0.030	3	10/15/21 14:02	10/19/21 11:17	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	0.0088	mg/L	0.0010	1	10/15/21 14:02	10/18/21 18:30	7440-38-2	
Cobalt, Total Recoverable	<0.0010	mg/L	0.0010	1	10/15/21 14:02	10/19/21 15:41	7440-48-4	
Molybdenum, Total Recoverable	0.060	mg/L	0.0010	1	10/15/21 14:02	10/18/21 18:30	7439-98-7	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Kansas City								
Alkalinity,Bicarbonate (CaCO3)	398	mg/L	20.0	1		10/18/21 13:20		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	20.0	1		10/18/21 13:20		
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Kansas City								
Total Dissolved Solids	518	mg/L	10.0	1		10/15/21 13:31		
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		10/19/21 10:43		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		10/15/21 11:36	18496-25-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60382886

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Sample: MW-102								
Lab ID: 60382886002								
Collected: 10/08/21 13:15								
Received: 10/08/21 15:20								
Matrix: Water								
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0								
Pace Analytical Services - Kansas City								
Chloride	3.9	mg/L	1.0	1		10/18/21 13:30	16887-00-6	
Fluoride	0.22	mg/L	0.20	1		10/18/21 13:30	16984-48-8	
Sulfate	3.9	mg/L	1.0	1		10/18/21 13:30	14808-79-8	
5310C Diss. Organic Carbon LF								
Analytical Method: SM 5310C								
Pace Analytical Services - Kansas City								
Dissolved Organic Carbon	1.2	mg/L	1.0	1		10/18/21 13:28		
Total Organic Carbon								
Analytical Method: EPA 9060								
Pace Analytical Services - Kansas City								
Total Organic Carbon	1.5	mg/L	1.0	1		10/18/21 13:30	7440-44-0	
Total Organic Carbon	1.6	mg/L	1.0	1		10/18/21 13:30	7440-44-0	
Total Organic Carbon	1.7	mg/L	1.0	1		10/18/21 13:30	7440-44-0	
Total Organic Carbon	1.6	mg/L	1.0	1		10/18/21 13:30	7440-44-0	
Mean Total Organic Carbon	1.6	mg/L	1.0	1		10/18/21 13:30	7440-44-0	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60382886

QC Batch: 749805	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: 60382886001, 60382886002

METHOD BLANK: 3002394 Matrix: Water

Associated Lab Samples: 60382886001, 60382886002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Barium	mg/L	<0.0050	0.0050	10/19/21 10:42	
Boron	mg/L	<0.10	0.10	10/19/21 10:42	
Calcium	mg/L	<0.20	0.20	10/19/21 10:42	
Hardness, Total(SM 2340B)	mg/L	<0.50	0.50	10/19/21 10:42	
Iron	mg/L	<0.050	0.050	10/19/21 10:42	
Magnesium	mg/L	<0.050	0.050	10/19/21 10:42	
Manganese	mg/L	<0.0050	0.0050	10/19/21 10:42	
Potassium	mg/L	<0.50	0.50	10/19/21 10:42	
Sodium	mg/L	<0.50	0.50	10/19/21 10:42	

LABORATORY CONTROL SAMPLE: 3002395

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	mg/L	1	1.0	104	85-115	
Boron	mg/L	1	1.0	102	85-115	
Calcium	mg/L	10	10.3	103	85-115	
Hardness, Total(SM 2340B)	mg/L	66.2	70.2	106	85-115	
Iron	mg/L	10	10.4	104	85-115	
Magnesium	mg/L	10	10.8	108	85-115	
Manganese	mg/L	1	1.0	103	85-115	
Potassium	mg/L	10	10.6	106	85-115	
Sodium	mg/L	10	10.4	104	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3002396 3002397

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		60382886001	Result	Spike Conc.	Conc.								
Barium	mg/L	0.29	1	1	1.3	1.3	102	104	70-130	1	20		
Boron	mg/L	<0.10	1	1	1.1	1.1	104	105	70-130	1	20		
Calcium	mg/L	178	10	10	175	178	-27	-1	70-130	1	20	M1	
Hardness, Total(SM 2340B)	mg/L	533	66.2	66.2	562	571	45	57	70-130	1	20		
Iron	mg/L	0.26	10	10	10.6	10.7	104	105	70-130	1	20		
Magnesium	mg/L	21.7	10	10	30.6	30.9	88	92	70-130	1	20		
Manganese	mg/L	3.1	1	1	4.1	4.1	98	98	70-130	0	20		
Potassium	mg/L	8.5	10	10	19.4	19.6	109	111	70-130	1	20		
Sodium	mg/L	5.1	10	10	15.6	15.7	105	106	70-130	1	20		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60382886

QC Batch: 749808	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: 60382886001, 60382886002

METHOD BLANK: 3002407 Matrix: Water

Associated Lab Samples: 60382886001, 60382886002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic, Dissolved	mg/L	<0.010	0.010	10/18/21 18:40	
Iron, Dissolved	mg/L	<0.050	0.050	10/18/21 18:40	
Lithium, Dissolved	mg/L	<0.010	0.010	10/18/21 18:40	
Manganese, Dissolved	mg/L	<0.0050	0.0050	10/18/21 18:40	
Molybdenum, Dissolved	mg/L	<0.020	0.020	10/18/21 18:40	

LABORATORY CONTROL SAMPLE: 3002408

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic, Dissolved	mg/L	1	0.94	94	85-115	
Iron, Dissolved	mg/L	10	10.5	105	85-115	
Lithium, Dissolved	mg/L	1	0.98	98	85-115	
Manganese, Dissolved	mg/L	1	1.0	104	85-115	
Molybdenum, Dissolved	mg/L	1	1.1	105	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3002409 3002410

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		60382886001 Result	Spike Conc.	Spike Conc.	Result						
Arsenic, Dissolved	mg/L	<0.010	1	1	0.97	0.98	97	98	70-130	1	20
Iron, Dissolved	mg/L	<0.050	10	10	10.3	10.4	103	104	70-130	0	20
Lithium, Dissolved	mg/L	<0.030	1	1	0.93	0.93	91	92	70-130	1	20
Manganese, Dissolved	mg/L	0.28	1	1	1.3	1.3	103	103	70-130	0	20
Molybdenum, Dissolved	mg/L	<0.020	1	1	1.1	1.1	105	107	70-130	1	20

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELLS C
Pace Project No.: 60382886

QC Batch: 749806	Analysis Method: EPA 200.8
QC Batch Method: EPA 200.8	Analysis Description: 200.8 MET
	Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60382886001, 60382886002

METHOD BLANK: 3002399 Matrix: Water

Associated Lab Samples: 60382886001, 60382886002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/L	<0.0010	0.0010	10/18/21 18:04	
Cobalt	mg/L	<0.0010	0.0010	10/19/21 15:34	
Molybdenum	mg/L	<0.0010	0.0010	10/18/21 18:04	

LABORATORY CONTROL SAMPLE: 3002400

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	0.04	0.040	101	85-115	
Cobalt	mg/L	0.04	0.038	96	85-115	
Molybdenum	mg/L	0.04	0.042	104	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3002401 3002402

Parameter	Units	60382886002		3002401		3002402		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec				
Arsenic	mg/L	0.0088	0.04	0.04	0.051	0.050	106	104	70-130	2	20
Cobalt	mg/L	<0.0010	0.04	0.04	0.038	0.038	96	95	70-130	1	20
Molybdenum	mg/L	0.060	0.04	0.04	0.11	0.10	111	110	70-130	0	20

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60382886

QC Batch: 749807	Analysis Method: EPA 6010
QC Batch Method: EPA 3010	Analysis Description: 6010 MET
	Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60382886001, 60382886002

METHOD BLANK: 3002403 Matrix: Water

Associated Lab Samples: 60382886001, 60382886002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lithium	mg/L	<0.010	0.010	10/18/21 18:23	

LABORATORY CONTROL SAMPLE: 3002404

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lithium	mg/L	1	0.96	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3002405 3002406

Parameter	Units	3002405		3002406		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		60382886001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Lithium	mg/L	<0.030	1	1	0.92	0.94	90	92	75-125	2	20

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60382886

QC Batch:	750018	Analysis Method:	SM 2320B
QC Batch Method:	SM 2320B	Analysis Description:	2320B Alkalinity
		Laboratory:	Pace Analytical Services - Kansas City

Associated Lab Samples: 60382886001, 60382886002

METHOD BLANK: 3003494 Matrix: Water

Associated Lab Samples: 60382886001, 60382886002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	20.0	10/18/21 12:19	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	20.0	10/18/21 12:19	

SAMPLE DUPLICATE: 3003496

Parameter	Units	60382042012 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity,Bicarbonate (CaCO3)	mg/L	1500	1550	3	10	H1
Alkalinity,Carbonate (CaCO3)	mg/L	<14.9	ND		10	H1

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELLS C
Pace Project No.: 60382886

QC Batch: 749839	Analysis Method: SM 2540C
QC Batch Method: SM 2540C	Analysis Description: 2540C Total Dissolved Solids
	Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60382886001, 60382886002

METHOD BLANK: 3002572 Matrix: Water

Associated Lab Samples: 60382886001, 60382886002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<5.0	5.0	10/15/21 13:31	

LABORATORY CONTROL SAMPLE: 3002573

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	1000	978	98	80-120	

SAMPLE DUPLICATE: 3002574

Parameter	Units	60383280001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	856	853	0	10	

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60382886

QC Batch:	750150	Analysis Method:	SM 4500-H+B
QC Batch Method:	SM 4500-H+B	Analysis Description:	4500H+B pH
		Laboratory:	Pace Analytical Services - Kansas City

Associated Lab Samples: 60382886001, 60382886002

SAMPLE DUPLICATE: 3003941

Parameter	Units	60382604001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.3	7.3	0	5	H6

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELLS C
Pace Project No.: 60382886

QC Batch: 749559	Analysis Method: SM 4500-S-2 D
QC Batch Method: SM 4500-S-2 D	Analysis Description: 4500S2D Sulfide, Total
	Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60382886001, 60382886002

METHOD BLANK: 3001639 Matrix: Water

Associated Lab Samples: 60382886001, 60382886002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide, Total	mg/L	<0.050	0.050	10/15/21 10:26	

LABORATORY CONTROL SAMPLE: 3001640

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: 3001641 3001642

Parameter	Units	60383051004		3001642		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Sulfide, Total	mg/L	0.055	0.5	0.5	0.31	0.26	52	42	75-125	17	20 M1

SAMPLE DUPLICATE: 3001643

Parameter	Units	60383051004 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	0.055	0.059	7	20	

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELLS C
Pace Project No.: 60382886

QC Batch: 749861 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: 60382886001, 60382886002

METHOD BLANK: 3002671 Matrix: Water

Associated Lab Samples: 60382886001, 60382886002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<1.0	1.0	10/18/21 10:33	
Fluoride	mg/L	<0.20	0.20	10/18/21 10:33	
Sulfate	mg/L	<1.0	1.0	10/18/21 10:33	

METHOD BLANK: 3005806 Matrix: Water

Associated Lab Samples: 60382886001, 60382886002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<1.0	1.0	10/19/21 08:19	
Fluoride	mg/L	<0.20	0.20	10/19/21 08:19	
Sulfate	mg/L	<1.0	1.0	10/19/21 08:19	

LABORATORY CONTROL SAMPLE: 3002672

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	5.0	99	90-110	

LABORATORY CONTROL SAMPLE: 3005807

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	2.4	96	90-110	
Sulfate	mg/L	5	4.9	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3002673 3002674

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		60383241002 Result	Spike Conc.	Spike Conc.	MS Result						
Chloride	mg/L	29.1	25	25	61.7	52.1	130	92	80-120	17	15 M1,R1
Fluoride	mg/L	<0.43	12.5	12.5	16.3	12.2	130	98	80-120	29	15 M1,R1
Sulfate	mg/L	476	250	250	890	865	166	155	80-120	3	15 M1

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELLS C
Pace Project No.: 60382886

QC Batch: 750048	Analysis Method: SM 5310C
QC Batch Method: SM 5310C	Analysis Description: 5310C Dissolved Organic Carbon
	Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60382886001, 60382886002

METHOD BLANK: 3003565 Matrix: Water

Associated Lab Samples: 60382886001, 60382886002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dissolved Organic Carbon	mg/L	<1.0	1.0	10/18/21 09:28	

LABORATORY CONTROL SAMPLE: 3003566

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	5	4.9	99	80-120	

MATRIX SPIKE SAMPLE: 3003567

Parameter	Units	60383051010 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	ND	5	5.2	91	80-120	

SAMPLE DUPLICATE: 3003568

Parameter	Units	60383218002 Result	Dup Result	RPD	Max RPD	Qualifiers
Dissolved Organic Carbon	mg/L	7.5	7.7	2	25	

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60382886

QC Batch:	750043	Analysis Method:	EPA 9060
QC Batch Method:	EPA 9060	Analysis Description:	9060 TOC
		Laboratory:	Pace Analytical Services - Kansas City

Associated Lab Samples: 60382886001, 60382886002

METHOD BLANK: 3003547 Matrix: Water

Associated Lab Samples: 60382886001, 60382886002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mean Total Organic Carbon	mg/L	<1.0	1.0	10/18/21 09:35	
Total Organic Carbon	mg/L	<1.0	1.0	10/18/21 09:35	
Total Organic Carbon	mg/L	<1.0	1.0	10/18/21 09:35	
Total Organic Carbon	mg/L	<1.0	1.0	10/18/21 09:35	
Total Organic Carbon	mg/L	<1.0	1.0	10/18/21 09:35	

LABORATORY CONTROL SAMPLE: 3003548

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mean Total Organic Carbon	mg/L	5	4.7	94	80-120	
Total Organic Carbon	mg/L	5	4.5	91	80-120	
Total Organic Carbon	mg/L	5	4.8	95	80-120	
Total Organic Carbon	mg/L	5	4.7	95	80-120	
Total Organic Carbon	mg/L	5	4.7	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3003549 3003550

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		60382886001 Result	Spike Conc.	Spike Conc.	Result						
Mean Total Organic Carbon	mg/L	1.7	5	5	7.0	6.8	105	101	80-120	3	25
Total Organic Carbon	mg/L	1.6	5	5	6.7	6.6	104	100	80-120	3	25
Total Organic Carbon	mg/L	1.8	5	5	7.1	6.9	106	101	80-120	3	25
Total Organic Carbon	mg/L	1.8	5	5	7.0	6.8	105	101	80-120	3	25
Total Organic Carbon	mg/L	1.8	5	5	7.1	6.8	106	101	80-120	3	25

SAMPLE DUPLICATE: 3003551

Parameter	Units	60382886002 Result	Dup Result	RPD	Max RPD	Qualifiers
Mean Total Organic Carbon	mg/L	1.6	1.6	3	25	
Total Organic Carbon	mg/L	1.5	1.4	6	25	
Total Organic Carbon	mg/L	1.6	1.6	2	25	
Total Organic Carbon	mg/L	1.7	1.6	3	25	
Total Organic Carbon	mg/L	1.6	1.6	4	25	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60382886

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: MW-B Lab ID: 60382886001 Collected: 10/08/21 11:50 Received: 10/08/21 15:20 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	3.06 ± 1.25 (0.331) C:NA T:98%	pCi/L	11/09/21 12:55	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	7.96 ± 1.64 (0.752) C:82% T:87%	pCi/L	11/04/21 14:41	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	11.0 ± 2.06 (0.752)	pCi/L	11/09/21 13:55	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60382886

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: MW-102 Lab ID: 60382886002 Collected: 10/08/21 13:15 Received: 10/08/21 15:20 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.752 ± 0.608 (0.340) C:NA T:96%	pCi/L	11/09/21 12:55	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.719 ± 0.427 (0.788) C:82% T:90%	pCi/L	11/04/21 14:41	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.47 ± 0.743 (0.788)	pCi/L	11/09/21 13:55	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60382886

QC Batch:	469281	Analysis Method:	EPA 903.1
QC Batch Method:	EPA 903.1	Analysis Description:	903.1 Radium-226
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 60382886001, 60382886002

METHOD BLANK:	2266078	Matrix:	Water
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Associated Lab Samples: 60382886001, 60382886002

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0884 ± 0.300 (0.579) C:NA T:95%	pCi/L	11/09/21 12:18	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60382886

QC Batch: 469282	Analysis Method: EPA 904.0
QC Batch Method: EPA 904.0	Analysis Description: 904.0 Radium 228
	Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 60382886001, 60382886002

METHOD BLANK: 2266079 Matrix: Water

Associated Lab Samples: 60382886001, 60382886002

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.170 ± 0.331 (0.728) C:72% T:88%	pCi/L	11/04/21 11:38	

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QUALIFIERS

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60382886

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

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.

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.

R1 RPD value was outside control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60382886

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60382886001	MW-B	EPA 200.7	749805	EPA 200.7	749936
60382886002	MW-102	EPA 200.7	749805	EPA 200.7	749936
60382886001	MW-B	EPA 200.7	749808	EPA 200.7	750032
60382886002	MW-102	EPA 200.7	749808	EPA 200.7	750032
60382886001	MW-B	EPA 3010	749807	EPA 6010	749937
60382886002	MW-102	EPA 3010	749807	EPA 6010	749937
60382886001	MW-B	EPA 200.8	749806	EPA 200.8	749935
60382886002	MW-102	EPA 200.8	749806	EPA 200.8	749935
60382886001	MW-B	EPA 903.1	469281		
60382886002	MW-102	EPA 903.1	469281		
60382886001	MW-B	EPA 904.0	469282		
60382886002	MW-102	EPA 904.0	469282		
60382886001	MW-B	Total Radium Calculation	471815		
60382886002	MW-102	Total Radium Calculation	471815		
60382886001	MW-B	SM 2320B	750018		
60382886002	MW-102	SM 2320B	750018		
60382886001	MW-B	SM 2540C	749839		
60382886002	MW-102	SM 2540C	749839		
60382886001	MW-B	SM 4500-H+B	750150		
60382886002	MW-102	SM 4500-H+B	750150		
60382886001	MW-B	SM 4500-S-2 D	749559		
60382886002	MW-102	SM 4500-S-2 D	749559		
60382886001	MW-B	EPA 300.0	749861		
60382886002	MW-102	EPA 300.0	749861		
60382886001	MW-B	SM 5310C	750048		
60382886002	MW-102	SM 5310C	750048		
60382886001	MW-B	EPA 9060	750043		
60382886002	MW-102	EPA 9060	750043		

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Sample Condition Upon Receipt

WO#: 60382886



Client Name: ENERGY KANSAS CENTRAL INC

Courier: FedEx [] UPS [] VIA [] Clay [] PEX [] ECI [] Pace [] Xroads [] Client [x] Other []

Tracking #: _____ Pace Shipping Label Used? Yes [] No [x]

Custody Seal on Cooler/Box Present: Yes [x] No [] Seals intact: Yes [x] No []

Packing Material: Bubble Wrap [] Bubble Bags [] Foam [] None [] Other [x] SPLC

Thermometer Used: 4296 Type of Ice: (Wet) Blue None

Cooler Temperature (°C): As-read 5.5 Corr. Factor 0.3 Corrected 5.2

Date and initials of person examining contents: 5/21/12

Temperature should be above freezing to 6°C

Chain of Custody present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Chain of Custody relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Samples arrived within holding time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Short Hold Time analyses (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Rush Turn Around Time requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Correct containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Unpreserved 5035A / TX1005/1006 soils frozen in 48hrs?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Filtered volume received for dissolved tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Sample labels match COC: Date / time / ID / analyses	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Samples contain multiple phases? Matrix: WT	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> 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# 603173	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> 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)	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Potassium iodide test strip turns blue/purple? (Preserve)	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Trip Blank present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Headspace in VOA vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Samples from USDA Regulated Area: State:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Additional labels attached to 5035A / TX1005 vials in the field?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> 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: _____



CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information:

Company: **EVERGY KANSAS CENTRAL, INC.**
 Address: **Lawrence Energy Center (LEC)**
 818 Kansas Ave, Topeka, KS 66612
 Email To: **melissa.michels@evergy.com**
 Phone: **785-575-8113** Fax:
 Requested Due Date/TAT: **Std**

Section B Required Project Information:

Report To: **Melissa Michels, Samantha Kaney, Danielle Ober**
 Copy To: **Jared Morrison, Jake Humphrey, Laura Hines**
 Andrew Hare, Tabitha Hylton
 Purchase Order No.:
 Project Name: **LEC Perimeter Ash Pond Wells CCR**
 Project Number:

Section C Invoice Information:

Attention: **Accounts Payable**
 Company Name: **EVERGY KANSAS CENTRAL, INC**
 Address: **SAME AS A**
 Pace Quote Reference:
 Pace Project Manager: **Hank Kapka, 913-563-1404**
 Pace Profile #: **9655, 1**

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
 UST RCRA OTHER

Site Location
 STATE: **KS**

Requested Analysis Filtered (Y/N)	Y	N	Analysis Test
Preservatives			
Other			
Methanol			
Na ₂ O ₃			
NaOH			
HCl			
HNO ₃			
H ₂ SO ₄			
Unpreserved			
# OF CONTAINERS			
Ra 226/ 228			
Sulfide			
Alkalinity, Bicarbonate (Ca)			
Alkalinity, Carbonate (Ca)			
300: Cl, F, SO ₄			
2540 TDS, Hardness			
4500H+ pH, Ferrus Iron			
200.7 Total Metals*			
200.7 Diss. Metals (FF)**			
200.8 Total Metals***			
6010 Total Metals****			
TOC, DOC, Hardness			
Residual Chlorine (Y/N)			

ITEM #	MATRIX CODE	(see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	Temp In °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples In tact (Y/N)
1	MW-B		WT G	DATE: 10/8/14 TIME: 1150 COMPOSITE START: COMPOSITE END/GRAB	Andrew Hare	10/8/14	1520	Andrew Hare	10/8/14	1530	5.7	Y	Y	Y
2	MW-102		WT G	DATE: 10/8/14 TIME: 1315	Andrew Hare	10/8/14	1520	Andrew Hare	10/8/14	1530	5.7	Y	Y	Y
3														
4														
5														
6														
7														
8														
9														
10														
11														
12														

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

ADDITIONAL COMMENTS
 200.7 Total Metals*: Ba, B, Ca, Fe, Mg, Mn, K, Na (8 metals)
 200.7 Dissolved Metals*: Fe, As, Li, Mo, Mn (5 metals, FILTERED)
 200.8 Total Metals*: As, Co, Mo (3 metals)
 6010 Total Metals****: Li (1 metal)

Requested Analysis Filtered (Y/N)	Y	N	Analysis Test
Preservatives			
Other			
Methanol			
Na ₂ O ₃			
NaOH			
HCl			
HNO ₃			
H ₂ SO ₄			
Unpreserved			
# OF CONTAINERS			
Ra 226/ 228			
Sulfide			
Alkalinity, Bicarbonate (Ca)			
Alkalinity, Carbonate (Ca)			
300: Cl, F, SO ₄			
2540 TDS, Hardness			
4500H+ pH, Ferrus Iron			
200.7 Total Metals*			
200.7 Diss. Metals (FF)**			
200.8 Total Metals***			
6010 Total Metals****			
TOC, DOC, Hardness			
Residual Chlorine (Y/N)			

Sample Container Count

COC PAGE ___ of ___
 Client: 9655 LNE1
 Profile #
 SBS
 DI
 MeOH (only)
 BK
 Kit

Site: ΔPAN-51-38 Rad + Rad 02 AGSS-DOC, 700
 Notes

COC Line Item	Matrix	AG1U	AG2U	AG3U	AG4U	AG5U	BP1U	BP2U	BP3U	BP1N	BP3N	BP3F	BP3S	BP3C	BP3Z	JGFU	WGKU	ZPLC	DG9M	DG9B	
1																					
2									4												5
3									4												4
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

Container Codes

	Glass	Plastic	Misc.
DG9B	40mL bisulfate clear vial	1L NaOH plastic	Wipe/Swab
DG9H	40mL HCl amber vial	1L HNO3 plastic	120mL Coliform Na Thiosulfate
DG9M	40mL MeOH clear vial	1L H2SO4 plastic	ZPLC
DG9Q	40mL TSP amber vial	1L unpreserved plastic	AF
DG9S	40mL H2SO4 amber vial	1L NaOH, Zn Acetate	C
DG9T	40mL Na Thio amber vial	500mL NaOH plastic	R
DG9U	40mL amber unpreserved	500mL HNO3 plastic	U
VG9H	40mL HCl clear vial	500mL H2SO4 plastic	
VG9T	40mL Na Thio. clear vial	500mL unpreserved plastic	
VG9U	40mL unpreserved clear vial	500mL NaOH, Zn Acetate	
BG1S	1liter H2SO4 clear glass	250mL NaOH plastic	
BG1U	1liter unpres glass	250mL HNO3 plastic - field filtered	
BG3H	250mL HCL Clear glass	250mL HNO3 plastic	
BG3U	250mL Unpres Clear glass	250mL unpreserved plastic	
		250mL H2SO4 plastic	
		250mL H2SO4 plastic	
		250mL NaOH, Zn Acetate	
		125mL unpreserved plastic	
		100mL unpres amber glass	
		8oz clear soil jar	
		4oz clear soil jar	
		2oz clear soil jar	
		4oz unpreserved amber wide	
		100mL unores amber glass	
		1L HCl amber glass	
		1L H2SO4 amber glass	
		1L Na Thiosulfate clear/amber glass	
		1liter unpres amber glass	
		500mL HNO3 amber glass	
		500mL H2SO4 amber glass	
		250mL H2SO4 amber glass	
		500mL unpres amber glass	
		125mL unpres amber glass	
		100mL unpres amber glass	
		125mL unpreserved plastic	
		125mL HNO3 plastic	
		125mL H2SO4 plastic	
		Water	
		Solid	
		Non-aqueous Liquid	
		OIL	
		Wipe	
		Drinking Water	

Internal Transfer Chain of Custody



Samples Pre-Logged into eCOC.

State Of Origin: KS

Cert. Needed: Yes No

Results Requested By: 10/19/2021



Workorder: 60382886

Workorder Name: LEC PERIMETER ASH POND WELLS

Report To

Hank Kapka
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

Requested Analysis

WO#: 30446283



Ra 226, Combined (Inc. QC)
Ra 228

Preserved Containers

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	HNO3	LAB USE ONLY
1	MW-B	PS	10/8/2021 11:50	60382886001	Water	2	X 001
2	MW-102	PS	10/8/2021 13:15	60382886002	Water	2	X 002
3							
4							
5							

Comments

Transfers	Released By	Date/Time	Received By	Date/Time
1	[Signature]	10/19/2021 09:30	[Signature]	10/19/2021 09:30
2				
3				

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.

Pittsburgh Lab Sample Condition Upon Receipt



Client Name: pace KS Project # _____

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Tracking #: 5333 8754 4844

Label <u>de</u>
LIMS Login <u>de</u>

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	N/A	pH paper Lot#	Date and Initials of person examining contents
				<u>1000411</u>	<u>de 10/19/21</u>
Chain of Custody Present:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Chain of Custody Filled Out:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Chain of Custody Relinquished:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Sampler Name & Signature on COC:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
Sample Labels match COC: -Includes date/time/ID Matrix: <u>WT</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
Short Hold Time Analysis (<72hr remaining):	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Rush Turn Around Time Requested:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Sufficient Volume:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Correct Containers Used: -Pace Containers Used:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Containers Intact:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Orthophosphate field filtered	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
Hex Cr Aqueous sample field filtered	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
Organic Samples checked for dechlorination:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
Filtered volume received for Dissolved tests All containers have been checked for preservation.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
exceptions: VOA, coliform, TOC, O&G, Phenolics, Radon, Non-aqueous matrix					
All containers meet method preservation requirements.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Initial when completed: <u>de</u>	Date/time of preservation
				Lot # of added preservative	
Headspace in VOA Vials (>6mm):	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
Trip Blank Present:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
Trip Blank Custody Seals Present	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
Rad Samples Screened < 0.5 mrem/hr	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Initial when completed: <u>de</u>	Date: <u>10/19/21</u> Survey Meter SN: <u>1503</u>

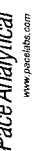
Client Notification/ Resolution:
 Person Contacted: _____ Date/Time: _____ Contacted By: _____
 Comments/ Resolution: _____

A check in this box indicates that additional information has been stored in ereports.

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)
 *PM review is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.

IO#: 30446283
 PM: MS1
 Due Date: 11/09/21
 CLIENT: PACE_60_LEKS

Quality Control Sample Performance Assessment



Test: Ra-226
Analyst: MK1
Date: 10/29/2021
Batch ID: 63302
Matrix: DW

Method Blank Assessment	
MB Sample ID	2266078
MB concentration:	0.088
MB Counting Uncertainty:	0.300
MB MDC:	0.579
MB Numerical Performance Indicator:	0.58
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	
LCS/D (Y or N)?	N
LCS63302	LCS063302
Count Date:	11/9/2021
Spike I.D.:	20-032
Spike Concentration (pCi/mL):	32.168
Volume Used (mL):	0.10
Aliquot Volume (L, g, F):	0.659
Target Conc. (pCi/L, g, F):	4.880
Uncertainty (Calculated):	0.229
Result (pCi/L, g, F):	4.823
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.889
Numerical Performance Indicator:	-0.12
Percent Recovery:	98.85%
Status vs Numerical Indicator:	N/A
Status vs Recovery:	Pass
Upper % Recovery Limits:	135%
Lower % Recovery Limits:	73%

Duplicate Sample Assessment	
Sample I.D.:	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.:	
Sample Result Counting Uncertainty (pCi/L, g, F):	
Sample Duplicate Result (pCi/L, g, F):	
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	
Are sample and/or duplicate results below RL?	See Below ##
Duplicate Numerical Performance Indicator:	
Duplicate RPD:	
Duplicate Status vs Numerical Indicator:	
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:

11-9-21

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Sample Matrix Spike Control Assessment		MS/MSD 1	MS/MSD 2
Sample Collection Date:		10/14/2021	
Sample I.D.:		50300251001	
Sample MS I.D.:		50300251002	
Sample MSD I.D.:		50300251003	
Spike I.D.:		20-032	
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		32.169	
Spike Volume Used in MS (mL):		0.20	
Spike Volume Used in MSD (mL):		0.20	
MS Aliquot (L, g, F):		0.645	
MS Target Conc.(pCi/L, g, F):		9.978	
MSD Aliquot (L, g, F):		0.665	
MSD Target Conc. (pCi/L, g, F):		9.677	
MS Spike Uncertainty (calculated):		0.469	
MSD Spike Uncertainty (calculated):		0.455	
Sample Result Counting Uncertainty (pCi/L, g, F):		0.208	
Sample Matrix Spike Result:		0.216	
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):		7.997	
Matrix Spike Duplicate Result:		1.124	
Sample Matrix Spike Duplicate Result:		9.107	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):		1.182	
MS Numerical Performance Indicator:		-3.467	
MSD Numerical Performance Indicator:		-1.188	
MS Percent Recovery:		78.06%	
MSD Percent Recovery:		91.96%	
MS Status vs Numerical Indicator:		N/A	
MSD Status vs Numerical Indicator:		N/A	
MS Status vs Recovery:		Pass	
MSD Status vs Recovery:		Pass	
MS/MSD Upper % Recovery Limits:		136%	
MS/MSD Lower % Recovery Limits:		71%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.:	50300251001
Sample MS I.D.:	50300251002
Sample MSD I.D.:	50300251003
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	7.997
Sample Matrix Spike Duplicate Result:	1.124
Sample Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	9.107
Duplicate Numerical Performance Indicator:	1.182
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:	-1.334
MS/MSD Duplicate Status vs Numerical Indicator:	16.34%
MS/MSD Duplicate Status vs RPD:	N/A
% RPD Limit:	Pass
	32%

06/19/21

Quality Control Sample Performance Assessment

Analyst Must Manually Enter All Fields Highlighted in Yellow.



Test: Ra-228
Analyst: VAL
Date: 11/1/2021
Worklist: 63303
Matrix: WT

Method Blank Assessment	
MB Sample ID	2266079
MB concentration:	0.170
M/B 2 Sigma CSU:	0.331
MB MDC:	0.728
MB Numerical Performance Indicator:	1.00
MB Status vs. Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment		LCS (Y or N)?	N
Count Date:		LCS63303	LCS63303
Spike I.D.:	21-029		
Decay Corrected Spike Concentration (pCi/mL):	37.585		
Volume Used (mL):	0.10		
Aliquot Volume (L, g, F):	0.825		
Target Conc. (pCi/L, g, F):	4.558		
Uncertainty (Calculated):	0.223		
Result (pCi/L, g, F):	4.112		
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.988		
Numerical Performance Indicator:	-0.86		
Percent Recovery:	90.22%		
Status vs Numerical Indicator:	N/A		
Status vs Recovery:	Pass		
Upper % Recovery Limits:	135%		
Lower % Recovery Limits:	60%		

Duplicate Sample Assessment	
Sample I.D.:	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.:	
Sample Result (pCi/L, g, F):	
Sample Result 2 Sigma CSU (pCi/L, g, F):	
Sample Duplicate Result (pCi/L, g, F):	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	
Are sample and/or duplicate results below RL?	See Below #
Duplicate Numerical Performance Indicator:	
Duplicate RPD:	
Duplicate Status vs Numerical Indicator:	
Duplicate Status vs RPD:	
% RPD Limit:	

Sample Matrix Spike Control Assessment		MS/MSD 1	MS/MSD 2
Sample Collection Date:		10/14/2021	
Sample I.D.:		50300251001	
Sample MS I.D.:		50300251002	
Sample MSD I.D.:		50300251003	
Spike I.D.:		21-029	
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		37.848	
Spike Volume Used in MS (mL):		0.20	
Spike Volume Used in MSD (mL):		0.20	
MS Aliquot (L, g, F):		0.816	
MSD Aliquot (L, g, F):		9.281	
MS Target Conc. (pCi/L, g, F):		0.820	
MSD Target Conc. (pCi/L, g, F):		9.234	
MSD Target Conc. (pCi/L, g, F):		0.455	
MS Spike Uncertainty (calculated):		0.452	
MSD Spike Uncertainty (calculated):		0.059	
Sample Result 2 Sigma CSU (pCi/L, g, F):		0.437	
Sample Matrix Spike Result:		8.940	
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		1.889	
Sample Matrix Spike Duplicate Result:		8.640	
Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		1.831	
MS Numerical Performance Indicator:		-0.393	
MSD Numerical Performance Indicator:		-0.860	
MS Percent Recovery:		95.69%	
MSD Percent Recovery:		92.94%	
MS Status vs Numerical Indicator:		Pass	
MSD Status vs Numerical Indicator:		Pass	
MS Status vs Recovery:		Pass	
MSD Status vs Recovery:		Pass	
MS/MSD Upper % Recovery Limits:		135%	
MS/MSD Lower % Recovery Limits:		60%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.:	50300251001
Sample MS I.D.:	50300251002
Sample MSD I.D.:	50300251003
Sample Matrix Spike Result:	8.940
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	1.889
Sample Matrix Spike Duplicate Result:	8.640
Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.831
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.223
Duplicate Numerical Performance Indicator:	2.92%
Duplicate Numerical Performance Indicator (Based on the Percent Recoveries) MS/MSD Duplicate RPD:	Pass
MS/MSD Duplicate Status vs Numerical Indicator:	Pass
MS/MSD Duplicate Status vs RPD:	36%
% RPD Limit:	

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

Comments:

M 11/7/21

09/11/2021

November 30, 2021

Melissa Michels
Evergy, Inc.
818 Kansas Avenue
Topeka, KS 66612

RE: Project: LEC INACTIVE ASH PONDS CCR
Pace Project No.: 60380682

Dear Melissa Michels:

Enclosed are the analytical results for sample(s) received by the laboratory on September 17, 2021. 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

REV-1, 11/30/21: Total Radium reported.

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

Sincerely,



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

Enclosures

cc: Andrew Hare, Evergy, Inc.
Laura Hines, Evergy, Inc.
Jake Humphrey, Evergy, Inc.
Tabitha Hylton, Evergy Kansas Central, Inc. Lawrence
Energy Center
Samantha Kaney, Haley & Aldrich
Jared Morrison, Evergy, Inc.
Danielle Oberbroeckling, Haley & Aldrich
Melanie Sataneck, Haley & Aldrich, Inc.



REPORT OF LABORATORY ANALYSIS

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

CERTIFICATIONS

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60380682

Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601

ANAB DOD-ELAP Rad Accreditation #: L2417

Alabama Certification #: 41590

Arizona Certification #: AZ0734

Arkansas Certification

California Certification #: 04222CA

Colorado Certification #: PA01547

Connecticut Certification #: PH-0694

Delaware Certification

EPA Region 4 DW Rad

Florida/TNI Certification #: E87683

Georgia Certification #: C040

Florida: Cert E871149 SEKS WET

Guam Certification

Hawaii Certification

Idaho Certification

Illinois Certification

Indiana Certification

Iowa Certification #: 391

Kansas/TNI Certification #: E-10358

Kentucky Certification #: KY90133

KY WW Permit #: KY0098221

KY WW Permit #: KY0000221

Louisiana DHH/TNI Certification #: LA180012

Louisiana DEQ/TNI Certification #: 4086

Maine Certification #: 2017020

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 #: PA014572018-1

New Hampshire/TNI Certification #: 297617

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 #: PA200002-010

Pennsylvania/TNI Certification #: 65-00282

Puerto Rico Certification #: PA01457

Rhode Island Certification #: 65-00282

South Dakota Certification

Tennessee Certification #: 02867

Texas/TNI Certification #: T104704188-17-3

Utah/TNI Certification #: PA014572017-9

USDA Soil Permit #: P330-17-00091

Vermont Dept. of Health: ID# VT-0282

Virgin Island/PADEP Certification

Virginia/VELAP Certification #: 9526

Washington Certification #: C868

West Virginia DEP Certification #: 143

West Virginia DHHR Certification #: 9964C

Wisconsin Approve List for Rad

Wyoming Certification #: 8TMS-L

Pace Analytical Services Kansas

9608 Loiret Boulevard, Lenexa, KS 66219

Missouri Inorganic Drinking Water Certification #: 10090

Arkansas Drinking Water

Arkansas Certification #: 20-020-0

Arkansas Drinking Water

Illinois Certification #: 2000302021-3

Iowa Certification #: 118

Kansas/NELAP Certification #: E-10116

Louisiana Certification #: 03055

Nevada Certification #: KS000212020-2

Oklahoma Certification #: 9205/9935

Florida: Cert E871149 SEKS WET

Texas Certification #: T104704407-19-12

Utah Certification #: KS000212019-9

Illinois Certification #: 004592

Kansas Field Laboratory Accreditation: # E-92587

Missouri SEKS Micro Certification: 10070

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60380682

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60380682001	MW-37-091621	Water	09/16/21 09:50	09/17/21 12:50
60380682002	MW-38-091621	Water	09/16/21 10:10	09/17/21 12:50
60380682003	MW-39-091621	Water	09/16/21 09:45	09/17/21 12:50
60380682004	MW-40-091621	Water	09/16/21 10:10	09/17/21 12:50
60380682005	MW-K-091621	Water	09/16/21 12:30	09/17/21 12:50
60380682006	MW-L-091621	Water	09/16/21 13:20	09/17/21 12:50
60380682007	LEC-AP-DUP-091621	Water	09/16/21 09:45	09/17/21 12:50

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60380682

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60380682001	MW-37-091621	EPA 200.7	JLH	3	PASI-K
		EPA 6010	JLH	1	PASI-K
		EPA 200.8	JGP	3	PASI-K
		EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
		SM 2540C	BLA	1	PASI-K
		SM 4500-H+B	KB	1	PASI-K
60380682002	MW-38-091621	EPA 300.0	ALH, JDS	3	PASI-K
		EPA 200.7	JLH	3	PASI-K
		EPA 6010	JLH	1	PASI-K
		EPA 200.8	JGP	3	PASI-K
		EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
		SM 2540C	BLA	1	PASI-K
60380682003	MW-39-091621	SM 4500-H+B	KB	1	PASI-K
		EPA 300.0	ALH, JDS	3	PASI-K
		EPA 200.7	JLH	3	PASI-K
		EPA 6010	JLH	1	PASI-K
		EPA 200.8	JGP	3	PASI-K
		EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
60380682004	MW-40-091621	SM 2540C	BLA	1	PASI-K
		SM 4500-H+B	KB	1	PASI-K
		EPA 300.0	ALH, JDS	3	PASI-K
		EPA 200.7	JLH	3	PASI-K
		EPA 6010	JLH	1	PASI-K
		EPA 200.8	JGP	3	PASI-K
		EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
60380682005	MW-K-091621	Total Radium Calculation	RMK	1	PASI-PA
		SM 2540C	BLA	1	PASI-K
		SM 4500-H+B	KB	1	PASI-K
		EPA 300.0	ALH, JDS	3	PASI-K
		EPA 200.7	JLH	3	PASI-K

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60380682

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60380682006	MW-L-091621	EPA 6010	JLH	1	PASI-K
		EPA 200.8	JGP	3	PASI-K
		EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
		SM 2540C	BLA	1	PASI-K
		SM 4500-H+B	KB	1	PASI-K
		EPA 300.0	ALH, JDS	3	PASI-K
		EPA 200.7	JLH	3	PASI-K
		EPA 6010	JLH	1	PASI-K
		EPA 200.8	JGP	3	PASI-K
		EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
		SM 2540C	BLA	1	PASI-K
SM 4500-H+B	KB	1	PASI-K		
60380682007	LEC-AP-DUP-091621	EPA 300.0	ALH, JDS	3	PASI-K
		EPA 200.7	JLH	3	PASI-K
		EPA 6010	JLH	1	PASI-K
		EPA 200.8	JGP	3	PASI-K
		EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
		SM 2540C	BLA	1	PASI-K
		SM 4500-H+B	KB	1	PASI-K
		EPA 300.0	ALH, JDS	3	PASI-K

PASI-K = Pace Analytical Services - Kansas City

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60380682

Method: EPA 200.7

Description: 200.7 Metals, Total

Client: Evergy Kansas Central, Inc.

Date: November 30, 2021

General Information:

7 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: 745494

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60380676002,60380682006

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

- MS (Lab ID: 2986121)
 - Calcium
- MSD (Lab ID: 2986120)
 - Boron
 - Calcium

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60380682

Method: EPA 6010

Description: 6010 MET ICP

Client: Evergy Kansas Central, Inc.

Date: November 30, 2021

General Information:

7 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:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60380682

Method: EPA 200.8

Description: 200.8 MET ICPMS

Client: Evergy Kansas Central, Inc.

Date: November 30, 2021

General Information:

7 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: 745484

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

- LEC-AP-DUP-091621 (Lab ID: 60380682007)
 - Cobalt, Total Recoverable
- MW-39-091621 (Lab ID: 60380682003)
 - Cobalt, Total Recoverable
- MW-40-091621 (Lab ID: 60380682004)
 - Cobalt, Total Recoverable
- MW-K-091621 (Lab ID: 60380682005)
 - Cobalt, Total Recoverable
- MW-L-091621 (Lab ID: 60380682006)
 - Cobalt, Total Recoverable

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60380682

Method: EPA 903.1

Description: 903.1 Radium 226

Client: Evergy Kansas Central, Inc.

Date: November 30, 2021

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:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60380682

Method: EPA 904.0

Description: 904.0 Radium 228

Client: Evergy Kansas Central, Inc.

Date: November 30, 2021

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:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60380682

Method: Total Radium Calculation

Description: Total Radium 228+226

Client: Evergy Kansas Central, Inc.

Date: November 30, 2021

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:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60380682

Method: SM 2540C

Description: 2540C Total Dissolved Solids

Client: Evergy Kansas Central, Inc.

Date: November 30, 2021

General Information:

7 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:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60380682

Method: SM 4500-H+B

Description: 4500H+ pH, Electrometric

Client: Evergy Kansas Central, Inc.

Date: November 30, 2021

General Information:

7 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.

- LEC-AP-DUP-091621 (Lab ID: 60380682007)
- MW-37-091621 (Lab ID: 60380682001)
- MW-38-091621 (Lab ID: 60380682002)
- MW-39-091621 (Lab ID: 60380682003)
- MW-40-091621 (Lab ID: 60380682004)
- MW-K-091621 (Lab ID: 60380682005)
- MW-L-091621 (Lab ID: 60380682006)

Method Blank:

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

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits 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:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60380682

Method: EPA 300.0

Description: 300.0 IC Anions 28 Days

Client: Evergy Kansas Central, Inc.

Date: November 30, 2021

General Information:

7 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: 745151

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60380635004,60380682005

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

- MS (Lab ID: 2984847)
 - Fluoride
 - Sulfate

R1: RPD value was outside control limits.

- MSD (Lab ID: 2984848)
 - Fluoride

Additional Comments:

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: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60380682

Sample: MW-37-091621	Lab ID: 60380682001	Collected: 09/16/21 09:50	Received: 09/17/21 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	0.066	mg/L	0.0050	1	09/24/21 16:00	09/27/21 23:13	7440-39-3	
Boron, Total Recoverable	1.8	mg/L	0.10	1	09/24/21 16:00	09/27/21 23:13	7440-42-8	
Calcium, Total Recoverable	197	mg/L	0.20	1	09/24/21 16:00	09/27/21 23:13	7440-70-2	
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Kansas City						
Lithium, Total Recoverable	0.016	mg/L	0.010	1	09/24/21 16:00	09/27/21 23:13	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	0.0054	mg/L	0.0010	1	09/24/21 16:00	09/28/21 18:00	7440-38-2	
Cobalt, Total Recoverable	<0.0010	mg/L	0.0010	1	09/24/21 16:00	09/28/21 18:00	7440-48-4	
Molybdenum, Total Recoverable	0.10	mg/L	0.0010	1	09/24/21 16:00	09/28/21 18:00	7439-98-7	
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Kansas City						
Total Dissolved Solids	995	mg/L	13.3	1		09/23/21 13:04		
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		09/21/21 12:36		H6
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City						
Chloride	38.5	mg/L	5.0	5		09/24/21 16:05	16887-00-6	
Fluoride	0.30	mg/L	0.20	1		09/23/21 20:15	16984-48-8	
Sulfate	345	mg/L	50.0	50		09/24/21 16:17	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60380682

Sample: MW-38-091621	Lab ID: 60380682002	Collected: 09/16/21 10:10		Received: 09/17/21 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	0.046	mg/L	0.0050	1	09/24/21 16:00	09/27/21 23:15	7440-39-3	
Boron, Total Recoverable	3.6	mg/L	0.10	1	09/24/21 16:00	09/27/21 23:15	7440-42-8	
Calcium, Total Recoverable	203	mg/L	0.20	1	09/24/21 16:00	09/27/21 23:15	7440-70-2	
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	1	09/24/21 16:00	09/27/21 23:15	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	0.037	mg/L	0.0010	1	09/24/21 16:00	09/28/21 18:03	7440-38-2	
Cobalt, Total Recoverable	<0.0010	mg/L	0.0010	1	09/24/21 16:00	09/28/21 18:03	7440-48-4	
Molybdenum, Total Recoverable	0.057	mg/L	0.0010	1	09/24/21 16:00	09/28/21 18:03	7439-98-7	
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Kansas City						
Total Dissolved Solids	1700	mg/L	20.0	1		09/23/21 13:04		
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		09/21/21 12:38		H6
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City						
Chloride	108	mg/L	20.0	20		09/23/21 21:11	16887-00-6	
Fluoride	3.5	mg/L	0.20	1		09/23/21 20:52	16984-48-8	
Sulfate	533	mg/L	50.0	50		09/24/21 16:29	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60380682

Sample: MW-39-091621	Lab ID: 60380682003	Collected: 09/16/21 09:45	Received: 09/17/21 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	0.031	mg/L	0.0050	1	09/24/21 16:00	09/27/21 23:18	7440-39-3	
Boron, Total Recoverable	4.6	mg/L	0.10	1	09/24/21 16:00	09/27/21 23:18	7440-42-8	
Calcium, Total Recoverable	551	mg/L	0.20	1	09/24/21 16:00	09/27/21 23:18	7440-70-2	
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	09/24/21 16:00	09/27/21 23:18	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	0.011	mg/L	0.0030	3	09/24/21 16:00	09/28/21 18:07	7440-38-2	
Cobalt, Total Recoverable	<0.0030	mg/L	0.0030	3	09/24/21 16:00	09/28/21 18:07	7440-48-4	D3
Molybdenum, Total Recoverable	0.20	mg/L	0.0030	3	09/24/21 16:00	09/28/21 18:07	7439-98-7	
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Kansas City						
Total Dissolved Solids	3470	mg/L	66.7	1		09/23/21 13:04		
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		09/21/21 12:32		H6
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City						
Chloride	319	mg/L	20.0	20		09/23/21 22:24	16887-00-6	
Fluoride	1.6	mg/L	0.20	1		09/23/21 22:06	16984-48-8	
Sulfate	1550	mg/L	200	200		09/24/21 16:41	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60380682

Sample: MW-40-091621	Lab ID: 60380682004	Collected: 09/16/21 10:10	Received: 09/17/21 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	0.032	mg/L	0.0050	1	09/24/21 16:00	09/27/21 23:21	7440-39-3	
Boron, Total Recoverable	4.0	mg/L	0.10	1	09/24/21 16:00	09/27/21 23:21	7440-42-8	
Calcium, Total Recoverable	429	mg/L	0.20	1	09/24/21 16:00	09/27/21 23:21	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	09/24/21 16:00	09/27/21 23:21	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	0.015	mg/L	0.0020	2	09/24/21 16:00	09/28/21 18:10	7440-38-2	
Cobalt, Total Recoverable	<0.0020	mg/L	0.0020	2	09/24/21 16:00	09/28/21 18:10	7440-48-4	D3
Molybdenum, Total Recoverable	0.069	mg/L	0.0020	2	09/24/21 16:00	09/28/21 18:10	7439-98-7	
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Kansas City						
Total Dissolved Solids	2660	mg/L	40.0	1		09/23/21 13:04		
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		09/21/21 12:40		H6
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City						
Chloride	267	mg/L	20.0	20		09/23/21 23:01	16887-00-6	
Fluoride	1.2	mg/L	0.20	1		09/23/21 22:42	16984-48-8	
Sulfate	1300	mg/L	200	200		09/24/21 16:53	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60380682

Sample: MW-K-091621	Lab ID: 60380682005	Collected: 09/16/21 12:30	Received: 09/17/21 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	0.038	mg/L	0.0050	1	09/24/21 16:00	09/27/21 23:23	7440-39-3	
Boron, Total Recoverable	3.1	mg/L	0.10	1	09/24/21 16:00	09/27/21 23:23	7440-42-8	
Calcium, Total Recoverable	358	mg/L	0.20	1	09/24/21 16:00	09/27/21 23:23	7440-70-2	
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	1	09/24/21 16:00	09/27/21 23:23	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	0.065	mg/L	0.0020	2	09/24/21 16:00	09/28/21 18:17	7440-38-2	
Cobalt, Total Recoverable	<0.0020	mg/L	0.0020	2	09/24/21 16:00	09/28/21 18:17	7440-48-4	D3
Molybdenum, Total Recoverable	0.032	mg/L	0.0020	2	09/24/21 16:00	09/28/21 18:17	7439-98-7	
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Kansas City						
Total Dissolved Solids	3460	mg/L	66.7	1		09/23/21 13:04		
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		09/21/21 12:44		H6
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City						
Chloride	369	mg/L	50.0	50		09/24/21 17:04	16887-00-6	
Fluoride	3.6	mg/L	0.20	1		09/23/21 23:19	16984-48-8	
Sulfate	1330	mg/L	200	200		09/24/21 17:52	14808-79-8	

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ANALYTICAL RESULTS

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60380682

Sample: MW-L-091621	Lab ID: 60380682006	Collected: 09/16/21 13:20		Received: 09/17/21 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	0.081	mg/L	0.0050	1	09/24/21 16:00	09/27/21 23:26	7440-39-3	
Boron, Total Recoverable	2.5	mg/L	0.10	1	09/24/21 16:00	09/27/21 23:26	7440-42-8	
Calcium, Total Recoverable	552	mg/L	0.20	1	09/24/21 16:00	09/27/21 23:26	7440-70-2	M1
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Kansas City						
Lithium, Total Recoverable	0.080	mg/L	0.010	1	09/24/21 16:00	09/27/21 23:26	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	0.026	mg/L	0.0030	3	09/24/21 16:00	09/28/21 18:20	7440-38-2	
Cobalt, Total Recoverable	<0.0030	mg/L	0.0030	3	09/24/21 16:00	09/28/21 18:20	7440-48-4	D3
Molybdenum, Total Recoverable	0.040	mg/L	0.0030	3	09/24/21 16:00	09/28/21 18:20	7439-98-7	
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Kansas City						
Total Dissolved Solids	4160	mg/L	100	1		09/23/21 13:05		
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		09/21/21 12:45		H6
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City						
Chloride	560	mg/L	100	100		09/24/21 18:15	16887-00-6	
Fluoride	3.0	mg/L	0.20	1		09/24/21 00:33	16984-48-8	
Sulfate	1870	mg/L	100	100		09/24/21 18:15	14808-79-8	

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ANALYTICAL RESULTS

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60380682

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Sample: LEC-AP-DUP-091621 Lab ID: 60380682007 Collected: 09/16/21 09:45 Received: 09/17/21 12:50 Matrix: Water								
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	09/24/21 16:00	09/27/21 23:39	7440-39-3	
Boron, Total Recoverable	4.6	mg/L	0.10	1	09/24/21 16:00	09/27/21 23:39	7440-42-8	
Calcium, Total Recoverable	536	mg/L	0.20	1	09/24/21 16:00	09/27/21 23:39	7440-70-2	
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	09/24/21 16:00	09/27/21 23:39	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	0.012	mg/L	0.0030	3	09/24/21 16:00	09/28/21 18:23	7440-38-2	
Cobalt, Total Recoverable	<0.0030	mg/L	0.0030	3	09/24/21 16:00	09/28/21 18:23	7440-48-4	D3
Molybdenum, Total Recoverable	0.20	mg/L	0.0030	3	09/24/21 16:00	09/28/21 18:23	7439-98-7	M1
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Kansas City								
Total Dissolved Solids	4270	mg/L	66.7	1		09/23/21 13:05		
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		09/21/21 12:35		H6
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0								
Pace Analytical Services - Kansas City								
Chloride	301	mg/L	20.0	20		09/24/21 02:05	16887-00-6	
Fluoride	1.5	mg/L	0.20	1		09/24/21 01:46	16984-48-8	
Sulfate	1530	mg/L	200	200		09/24/21 18:39	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60380682

QC Batch:	745494	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: 60380682001, 60380682002, 60380682003, 60380682004, 60380682005, 60380682006, 60380682007

METHOD BLANK: 2986117 Matrix: Water
Associated Lab Samples: 60380682001, 60380682002, 60380682003, 60380682004, 60380682005, 60380682006, 60380682007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Barium	mg/L	<0.0050	0.0050	09/27/21 22:44	
Boron	mg/L	<0.10	0.10	09/27/21 22:44	
Calcium	mg/L	<0.20	0.20	09/27/21 22:44	

LABORATORY CONTROL SAMPLE: 2986118

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	mg/L	1	0.96	96	85-115	
Boron	mg/L	1	0.92	92	85-115	
Calcium	mg/L	10	9.7	97	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2986119 2986120

Parameter	Units	60380676002		MS		MSD		% Rec	% Rec	% Rec Limits	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result					
Barium	mg/L	0.048	1	1	1.0	0.95	98	90	70-130	7	20	
Boron	mg/L	5.5	1	1	6.4	5.8	89	30	70-130	10	20	M1
Calcium	mg/L	468	10	10	477	440	90	-279	70-130	8	20	M1

MATRIX SPIKE SAMPLE: 2986121

Parameter	Units	60380682006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Barium	mg/L	0.081	1	1.0	96	70-130	
Boron	mg/L	2.5	1	3.3	84	70-130	
Calcium	mg/L	552	10	551	-16	70-130	M1

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QUALITY CONTROL DATA

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60380682

QC Batch:	745484	Analysis Method:	EPA 200.8
QC Batch Method:	EPA 200.8	Analysis Description:	200.8 MET
		Laboratory:	Pace Analytical Services - Kansas City

Associated Lab Samples: 60380682001, 60380682002, 60380682003, 60380682004, 60380682005, 60380682006, 60380682007

METHOD BLANK: 2986078 Matrix: Water
Associated Lab Samples: 60380682001, 60380682002, 60380682003, 60380682004, 60380682005, 60380682006, 60380682007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/L	<0.0010	0.0010	09/28/21 17:40	
Cobalt	mg/L	<0.0010	0.0010	09/28/21 17:40	
Molybdenum	mg/L	<0.0010	0.0010	09/28/21 17:40	

LABORATORY CONTROL SAMPLE: 2986079

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	0.04	0.041	104	85-115	
Cobalt	mg/L	0.04	0.041	101	85-115	
Molybdenum	mg/L	0.04	0.042	105	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2986080 2986081

Parameter	Units	60380633001		MS		MSD		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result						
Arsenic	mg/L	<0.0050	0.04	0.04	0.04	0.042	0.042	102	103	70-130	1	20	
Cobalt	mg/L	<0.0050	0.04	0.04	0.04	0.040	0.041	94	95	70-130	1	20	
Molybdenum	mg/L	0.023	0.04	0.04	0.04	0.065	0.066	105	106	70-130	1	20	

MATRIX SPIKE SAMPLE: 2986082

Parameter	Units	60380682007 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	0.012	0.04	0.053	103	70-130	
Cobalt	mg/L	<0.0030	0.04	0.039	95	70-130	
Molybdenum	mg/L	0.20	0.04	0.25	115	70-130	

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QUALITY CONTROL DATA

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60380682

QC Batch: 745481

Analysis Method: EPA 6010

QC Batch Method: EPA 3010

Analysis Description: 6010 MET

Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60380682001, 60380682002, 60380682003, 60380682004, 60380682005, 60380682006, 60380682007

METHOD BLANK: 2986059

Matrix: Water

Associated Lab Samples: 60380682001, 60380682002, 60380682003, 60380682004, 60380682005, 60380682006, 60380682007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lithium	mg/L	<0.010	0.010	09/27/21 22:44	

LABORATORY CONTROL SAMPLE: 2986060

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lithium	mg/L	1	0.95	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2986061 2986062

Parameter	Units	60380676002		MS		MSD		% Rec		Limits		Max	
		Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	RPD	RPD	Qual		
Lithium	mg/L	0.050	1	1	1.1	0.98	100	93	75-125	7	20		

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QUALITY CONTROL DATA

Project: LEC INACTIVE ASH PONDS CCR
Pace Project No.: 60380682

QC Batch: 745029	Analysis Method: SM 2540C
QC Batch Method: SM 2540C	Analysis Description: 2540C Total Dissolved Solids
	Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60380682001

METHOD BLANK: 2984437 Matrix: Water

Associated Lab Samples: 60380682001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<5.0	5.0	09/23/21 12:58	

LABORATORY CONTROL SAMPLE: 2984438

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	1000	963	96	80-120	

SAMPLE DUPLICATE: 2984439

Parameter	Units	60380494019 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	329	327	1	10	

SAMPLE DUPLICATE: 2984440

Parameter	Units	60380502004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1140	1110	2	10	

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QUALITY CONTROL DATA

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60380682

QC Batch:	745030	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Kansas City

Associated Lab Samples: 60380682002, 60380682003, 60380682004, 60380682005, 60380682006, 60380682007

METHOD BLANK: 2984441 Matrix: Water
Associated Lab Samples: 60380682002, 60380682003, 60380682004, 60380682005, 60380682006, 60380682007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<5.0	5.0	09/23/21 13:04	

LABORATORY CONTROL SAMPLE: 2984442

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	1000	993	99	80-120	

SAMPLE DUPLICATE: 2984443

Parameter	Units	60380245015 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	756	771	2	10	

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QUALITY CONTROL DATA

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60380682

QC Batch: 744595 Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B Analysis Description: 4500H+B pH

Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60380682001, 60380682002, 60380682003, 60380682004, 60380682005, 60380682006, 60380682007

SAMPLE DUPLICATE: 2982938

Parameter	Units	60380515001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.6	7.8	3	5	H6

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QUALITY CONTROL DATA

Project: LEC INACTIVE ASH PONDS CCR
Pace Project No.: 60380682

QC Batch: 745151 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: 60380682001, 60380682002, 60380682003, 60380682004, 60380682005, 60380682006, 60380682007

METHOD BLANK: 2984845 Matrix: Water
Associated Lab Samples: 60380682001, 60380682002, 60380682003, 60380682004, 60380682005, 60380682006, 60380682007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<1.0	1.0	09/23/21 08:20	
Fluoride	mg/L	<0.20	0.20	09/23/21 08:20	
Sulfate	mg/L	<1.0	1.0	09/23/21 08:20	

METHOD BLANK: 2987551 Matrix: Water
Associated Lab Samples: 60380682001, 60380682002, 60380682003, 60380682004, 60380682005, 60380682006, 60380682007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<1.0	1.0	09/24/21 08:25	
Fluoride	mg/L	<0.20	0.20	09/24/21 08:25	
Sulfate	mg/L	<1.0	1.0	09/24/21 08:25	

LABORATORY CONTROL SAMPLE: 2984846

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	5.4	107	90-110	
Fluoride	mg/L	2.5	2.7	107	90-110	
Sulfate	mg/L	5	5.5	109	90-110	

LABORATORY CONTROL SAMPLE: 2987552

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.7	94	90-110	
Sulfate	mg/L	5	4.9	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2984847 2984848

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		60380635004 Result	Spike Conc.	Spike Conc.	Result						
Chloride	mg/L	5380	5000	5000	10300	10400	98	99	80-120	1	15
Fluoride	mg/L	1.1	2.5	2.5	2.8	3.5	67	93	80-120	21	15 M1,R1
Sulfate	mg/L	561	250	250	900	859	136	119	80-120	5	15 M1

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60380682

MATRIX SPIKE SAMPLE:		2984849					
Parameter	Units	60380682005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	369	250	613	98	80-120	
Fluoride	mg/L	3.6	2.5	6.5	116	80-120	
Sulfate	mg/L	1330	1000	2270	94	80-120	

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REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60380682

Sample: MW-37-091621 **Lab ID: 60380682001** Collected: 09/16/21 09:50 Received: 09/17/21 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	-0.105 ± 0.292 (0.691) C:NA T:104%	pCi/L	11/04/21 16:56	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.0836 ± 0.344 (0.780) C:80% T:79%	pCi/L	11/02/21 10:54	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.0836 ± 0.636 (1.47)	pCi/L	11/18/21 14:31	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60380682

Sample: MW-38-091621 **Lab ID: 60380682002** Collected: 09/16/21 10:10 Received: 09/17/21 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 ± 0.456 (0.913) C:NA T:102%	pCi/L	11/04/21 16:38	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.703 ± 0.408 (0.762) C:80% T:90%	pCi/L	11/02/21 10:55	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.703 ± 0.864 (1.68)	pCi/L	11/18/21 14:31	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60380682

Sample: MW-39-091621 **Lab ID: 60380682003** Collected: 09/16/21 09:45 Received: 09/17/21 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	0.364 ± 0.447 (0.729) C:NA T:91%	pCi/L	11/04/21 17:06	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.562 ± 0.400 (0.780) C:78% T:84%	pCi/L	11/02/21 10:55	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.926 ± 0.847 (1.51)	pCi/L	11/18/21 14:31	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60380682

Sample: MW-40-091621 **Lab ID: 60380682004** Collected: 09/16/21 10:10 Received: 09/17/21 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	-0.323 ± 0.337 (0.912) C:NA T:94%	pCi/L	11/04/21 17:06	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	1.37 ± 0.536 (0.851) C:80% T:79%	pCi/L	11/02/21 10:55	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.37 ± 0.873 (1.76)	pCi/L	11/18/21 14:31	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60380682

Sample: MW-K-091621 **Lab ID: 60380682005** Collected: 09/16/21 12:30 Received: 09/17/21 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	0.0660 ± 0.301 (0.485) C:NA T:102%	pCi/L	11/04/21 17:06	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.844 ± 0.516 (0.971) C:72% T:79%	pCi/L	11/02/21 14:08	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.910 ± 0.817 (1.46)	pCi/L	11/18/21 14:31	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60380682

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: MW-L-091621 Lab ID: 60380682006 Collected: 09/16/21 13:20 Received: 09/17/21 12:50 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.508 ± 0.403 (0.524) C:NA T:101%	pCi/L	11/04/21 17:06	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.326 ± 0.418 (0.889) C:73% T:87%	pCi/L	11/02/21 14:08	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.834 ± 0.821 (1.41)	pCi/L	11/18/21 14:31	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60380682

Sample: LEC-AP-DUP-091621 **Lab ID: 60380682007** Collected: 09/16/21 09:45 Received: 09/17/21 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	0.184 ± 0.523 (0.971) C:NA T:92%	pCi/L	11/04/21 17:06	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.149 ± 0.381 (0.850) C:71% T:87%	pCi/L	11/02/21 14:08	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.333 ± 0.904 (1.82)	pCi/L	11/18/21 14:31	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60380682

QC Batch: 469202

Analysis Method: EPA 903.1

QC Batch Method: EPA 903.1

Analysis Description: 903.1 Radium-226

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 60380682001, 60380682002, 60380682003, 60380682004, 60380682005, 60380682006, 60380682007

METHOD BLANK: 2265803

Matrix: Water

Associated Lab Samples: 60380682001, 60380682002, 60380682003, 60380682004, 60380682005, 60380682006, 60380682007

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	-0.151 ± 0.261 (0.659) C:NA T:90%	pCi/L	11/04/21 16:38	

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: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60380682

QC Batch: 469203

Analysis Method: EPA 904.0

QC Batch Method: EPA 904.0

Analysis Description: 904.0 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 60380682001, 60380682002, 60380682003, 60380682004, 60380682005, 60380682006, 60380682007

METHOD BLANK: 2265804

Matrix: Water

Associated Lab Samples: 60380682001, 60380682002, 60380682003, 60380682004, 60380682005, 60380682006, 60380682007

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.514 ± 0.349 (0.664) C:78% T:89%	pCi/L	11/02/21 10:54	

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QUALIFIERS

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60380682

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

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

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.

R1 RPD value was outside control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60380682

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60380682001	MW-37-091621	EPA 200.7	745494	EPA 200.7	745593
60380682002	MW-38-091621	EPA 200.7	745494	EPA 200.7	745593
60380682003	MW-39-091621	EPA 200.7	745494	EPA 200.7	745593
60380682004	MW-40-091621	EPA 200.7	745494	EPA 200.7	745593
60380682005	MW-K-091621	EPA 200.7	745494	EPA 200.7	745593
60380682006	MW-L-091621	EPA 200.7	745494	EPA 200.7	745593
60380682007	LEC-AP-DUP-091621	EPA 200.7	745494	EPA 200.7	745593
60380682001	MW-37-091621	EPA 3010	745481	EPA 6010	745594
60380682002	MW-38-091621	EPA 3010	745481	EPA 6010	745594
60380682003	MW-39-091621	EPA 3010	745481	EPA 6010	745594
60380682004	MW-40-091621	EPA 3010	745481	EPA 6010	745594
60380682005	MW-K-091621	EPA 3010	745481	EPA 6010	745594
60380682006	MW-L-091621	EPA 3010	745481	EPA 6010	745594
60380682007	LEC-AP-DUP-091621	EPA 3010	745481	EPA 6010	745594
60380682001	MW-37-091621	EPA 200.8	745484	EPA 200.8	745598
60380682002	MW-38-091621	EPA 200.8	745484	EPA 200.8	745598
60380682003	MW-39-091621	EPA 200.8	745484	EPA 200.8	745598
60380682004	MW-40-091621	EPA 200.8	745484	EPA 200.8	745598
60380682005	MW-K-091621	EPA 200.8	745484	EPA 200.8	745598
60380682006	MW-L-091621	EPA 200.8	745484	EPA 200.8	745598
60380682007	LEC-AP-DUP-091621	EPA 200.8	745484	EPA 200.8	745598
60380682001	MW-37-091621	EPA 903.1	469202		
60380682002	MW-38-091621	EPA 903.1	469202		
60380682003	MW-39-091621	EPA 903.1	469202		
60380682004	MW-40-091621	EPA 903.1	469202		
60380682005	MW-K-091621	EPA 903.1	469202		
60380682006	MW-L-091621	EPA 903.1	469202		
60380682007	LEC-AP-DUP-091621	EPA 903.1	469202		
60380682001	MW-37-091621	EPA 904.0	469203		
60380682002	MW-38-091621	EPA 904.0	469203		
60380682003	MW-39-091621	EPA 904.0	469203		
60380682004	MW-40-091621	EPA 904.0	469203		
60380682005	MW-K-091621	EPA 904.0	469203		
60380682006	MW-L-091621	EPA 904.0	469203		
60380682007	LEC-AP-DUP-091621	EPA 904.0	469203		
60380682001	MW-37-091621	Total Radium Calculation	473179		
60380682002	MW-38-091621	Total Radium Calculation	473179		
60380682003	MW-39-091621	Total Radium Calculation	473179		
60380682004	MW-40-091621	Total Radium Calculation	473179		
60380682005	MW-K-091621	Total Radium Calculation	473179		
60380682006	MW-L-091621	Total Radium Calculation	473179		
60380682007	LEC-AP-DUP-091621	Total Radium Calculation	473179		
60380682001	MW-37-091621	SM 2540C	745029		
60380682002	MW-38-091621	SM 2540C	745030		
60380682003	MW-39-091621	SM 2540C	745030		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60380682

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60380682004	MW-40-091621	SM 2540C	745030		
60380682005	MW-K-091621	SM 2540C	745030		
60380682006	MW-L-091621	SM 2540C	745030		
60380682007	LEC-AP-DUP-091621	SM 2540C	745030		
60380682001	MW-37-091621	SM 4500-H+B	744595		
60380682002	MW-38-091621	SM 4500-H+B	744595		
60380682003	MW-39-091621	SM 4500-H+B	744595		
60380682004	MW-40-091621	SM 4500-H+B	744595		
60380682005	MW-K-091621	SM 4500-H+B	744595		
60380682006	MW-L-091621	SM 4500-H+B	744595		
60380682007	LEC-AP-DUP-091621	SM 4500-H+B	744595		
60380682001	MW-37-091621	EPA 300.0	745151		
60380682002	MW-38-091621	EPA 300.0	745151		
60380682003	MW-39-091621	EPA 300.0	745151		
60380682004	MW-40-091621	EPA 300.0	745151		
60380682005	MW-K-091621	EPA 300.0	745151		
60380682006	MW-L-091621	EPA 300.0	745151		
60380682007	LEC-AP-DUP-091621	EPA 300.0	745151		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

WO#: 60380682



Client Name: Energy

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: T300 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: 9/20
juw 1205

Temperature should be above freezing to 6°C

Chain of Custody present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Chain of Custody relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Samples arrived within holding time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Short Hold Time analyses (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<u>pH</u>
Rush Turn Around Time requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	<u>? day</u>
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Correct containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Unpreserved 5035A / TX1005/1006 soils frozen in 48hrs?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Filtered volume received for dissolved tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Sample labels match COC: Date / time / ID / analyses	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Samples contain multiple phases? Matrix: <u>WT</u>	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> 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# <u>600700 4</u>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> 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)	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Potassium iodide test strip turns blue/purple? (Preserve)	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Trip Blank present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Headspace in VOA vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Samples from USDA Regulated Area: State: _____	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Additional labels attached to 5035A / TX1005 vials in the field?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> 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: _____



CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information:	Section B Required Project Information:
Company: EVERGY KANSAS CENTRAL, INC.	Report To: Melissa Michels, Samantha Kaney, Danielle Ober
Address: Lawrence Energy Center (LEC)	Copy To: Jared Morrison, Jake Humphrey, Laura Hines
818 Kansas Ave, Topeka, KS 66612	Andrew Hare, Tabitha Hylton
Email To: melissa.michels@evergy.com	Purchase Order No.:
Phone: 785-575-8113 Fax:	Project Name: LEC Inactive Ash Ponds CCR
Requested Due Date/TAT: 7 day	Project Number:

Section C Invoice Information:	REGULATORY AGENCY
Company Name: EVERGY KANSAS CENTRAL, INC.	<input type="checkbox"/> NPDES <input checked="checked" type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER
Attention: Accounts Payable	<input type="checkbox"/> UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER
Address: SAME AS A	Site Location KS
Pace Quote Reference:	STATE: KS
Pace Project Manager: Hank Kapka, 913-563-1404	
Pace Profile #: 9655, 2	

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE DRINKING WATER DW WASTE WATER WT WASTE WATER PRODUCT WW SOIL/SOLID SL OIL OL WIPE WIPE AIR AIR OTHER OT TISSUE TS	COLLECTED		SAMPLE TYPE (G=GRAB C=COMP)	MATRIX CODE (see valid codes to left)	# OF CONTAINERS	Preservatives	Analysis Test ↑	Requested Analysis Filtered (Y/N)												Residual Chlorine (Y/N)	Pace Project No./Lab I.D.		
			COMPOSITE START	COMPOSITE END/GRAB						DATE	TIME	Y	N	Y	N	Y	N	Y	N	Y	N			Y	N
1	MW-37- 091621	WT	G	-	09/16/21	9:50	7	Unpreserved	200.7 Total Metals *	N	X	X	X	X	X	X	X	X	X	X	X	X	X	X	2-PRN 09/12-09/21-09/30-2-09/30
2	MW-38- 091621	WT	G	-	09/16/21	10:10	7		200.8 Total Metals *	N	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
3	MW-39- 091621	WT	G	-	09/16/21	9:45	7		300. Cl, F, SO4	N	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
4	MW-40- 091621	WT	G	-	09/16/21	10:10	7		2540C TDS	N	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
5	MW-K- 091621	WT	G	-	09/16/21	12:30	7		4500 H+B pH	N	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
6	MW-L- 091621	WT	G	-	09/16/21	13:20	7		6010 Total Metals**	N	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
7	LEC-AP-DUP- 091621	WT	G	-	09/16/21	9:45	7		200.7 Total Metals *	N	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
8									Other																
9									Methanol																
10									Na2S2O3																
11									HCl																
12									HNO3																
									H2SO4																
									Unpreserved																

ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
200.7 Total Metals*: B, Ca, Ba		Britta Coleman/SCS Engineers	9/17/21		Britta Coleman/SCS Engineers	9/17/21		
200.8 Total Metals*: As, Co, Mo								
6010 Total Metals*: Li								
SAMPLER NAME AND SIGNATURE								
PRINT Name of SAMPLER: Britta Coleman								
SIGNATURE OF SAMPLER:								
DATE Signed (MM/DD/YY): 9/17/21								
Temp in °C: 21.44								
Received on Ice (Y/N): Received on Ice								
Sealed Cooler (Y/N): Sealed Cooler								
Custody (Y/N): Custody								
Samples Intact (Y/N): Samples Intact								

*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



Samples Pre-Logged into eCOC.

State Of Origin: KS

Cert. Needed: Yes No

Workorder: 60380682 Workorder Name: LEC INACTIVE ASH PONDS CCR Owner Received Date: 9/17/2021 Results Requested By: 9/28/2021

Report To: Subcontract To

Hank Kapka
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

Requested/Analysis

NO#: 30445947

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers		LAB USE ONLY
						HN03		
1	MW-37-091621	PS	9/16/2021 09:50	60380682001	Water	2		001
2	MW-38-091621	PS	9/16/2021 10:10	60380682002	Water	2		002
3	MW-39-091621	PS	9/16/2021 09:45	60380682003	Water	2		003
4	MW-40-091621	PS	9/16/2021 10:10	60380682004	Water	2		004
5	MW-K-091621	PS	9/16/2021 12:30	60380682005	Water	2		005
6	MW-L-091621	PS	9/16/2021 13:20	60380682006	Water	2		006
7	LEC-AP-DUP-091621	PS	9/16/2021 09:45	60380682007	Water	2		007

Comments

Transfers	Released By	Date/Time	Received By	Date/Time
1	MW-p-f or	9/17/2021 18:00	J. Mock	10/14/2021 09:40
2				
3				

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.

Pittsburgh Lab Sample Condition Upon Receipt



Client Name: Pace KS Project # _____

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Tracking #: 5333 8754 1606

Label	<u>Qm</u>
LIMS Login	<u>Qm</u>

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Thermometer Used N/A 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:	pH paper Lot#			Date and Initials of person examining contents:
	Yes	No	N/A	
Chain of Custody Present:	/			1000411
Chain of Custody Filled Out:	/			AF 10/18/21
Chain of Custody Relinquished:	/			
Sampler Name & Signature on COC:		/		
Sample Labels match COC:	/			
-Includes date/time/ID Matrix: <u>VVT</u>				
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 sample field filtered			/	
Organic Samples checked for dechlorination:			/	
Filtered volume received for Dissolved tests			/	
All containers have been checked for preservation.	/			
exceptions: VOA, coliform, TOC, O&G, Phenolics, Radon, Non-aqueous matrix				Ans 2
All containers meet method preservation requirements.	/			Initial when completed
				Date/time of preservation
				Lot # of added preservative
Headspace in VOA Vials (>6mm):			/	
Trip Blank Present:		/		
Trip Blank Custody Seals Present			/	
Rad Samples Screened < 0.5 mrem/hr	/			Initial when completed: AF
				Date: 10/18/21
				Survey Meter SN: 063

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____ Contacted By: _____

Comments/ Resolution: _____

A check in this box indicates that additional information has been stored in ereports.

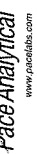
Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

*PM review is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.

PM: MSI Due Date: 10/21/21
 CLIENT: PACE_60_LEKS

WO#: 30445947

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226
Analyst: MK1
Date: 10/27/2021
Batch ID: 63271
Matrix: DW

Method Blank Assessment	
MB Sample ID	2265803
MB concentration:	-0.151
M/B Counting Uncertainty:	0.261
IMB MDC:	0.659
MB Numerical Performance Indicator:	-1.13
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment		LCSD (Y or N)?	Y
Count Date:	11/9/2021	LCS63271	LCS63271
Spike I.D.:	20-032		11/9/2021
Spike Concentration (pCi/mL):	32.168		20-032
Volume Used (mL):	0.10		32.168
Aliquot Volume (L, g, F):	0.655		0.10
Target Conc. (pCi/L, g, F):	4.911		0.652
Uncertainty (Calculated):	0.231		4.932
Result (pCi/L, g, F):	4.531		0.232
LCSD/LCSD Counting Uncertainty (pCi/L, g, F):	1.144		1.096
Numerical Performance Indicator:	-0.64		-1.21
Percent Recovery:	92.26%		85.99%
Status vs Numerical Indicator:	N/A		N/A
Upper % Recovery Limits:	135%		Pass
Lower % Recovery Limits:	73%		135%
			73%

Duplicate Sample Assessment	
Sample I.D.:	LCS63271
Duplicate Sample I.D.:	LCS63271
Sample Result (pCi/L, g, F):	4.531
Sample Duplicate Result (pCi/L, g, F):	1.144
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	4.241
Are sample and/or duplicate results below RL?	NO
Duplicate Numerical Performance Indicator:	1.096
(Based on the LCSD/LCSD Percent Recoveries) Duplicate RPD:	0.358
Duplicate Status vs Numerical Indicator:	7.03%
Duplicate Status vs RPD:	N/A
% RPD Limit:	32%

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: Sample Matrix Spike Duplicate 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/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: Sample Matrix Spike Result Counting Uncertainty (pCi/L, g, F): Sample Matrix Spike Duplicate Result: Sample Matrix Spike Duplicate 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:

MK
11-9-21

Quality Control Sample Performance Assessment



Test: Ra-228
Analyst: VAL
Date: 10/31/2021
Worklist: 63272
Matrix: WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2269804
MB concentration:	0.514
M/B 2 Sigma CSU:	0.349
MB MDC:	0.664
MB Numerical Performance Indicator:	2.88
MB Status vs Numerical Indicator:	Warning
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment		LCS/D (Y or N)?	Y
Count Date:		LCS63272	
Spike I.D.:		LCS63272	
Decay Corrected Spike Concentration (pCi/mL):		11/2/2021	11/2/2021
Volume Used (mL):		21-029	21-029
Aliquot Volume (L, g, F):		37.612	37.612
Target Conc. (pCi/L, g, F):		0.10	0.10
Uncertainty (Calculated):		0.809	0.809
Result (pCi/L, g, F):		4.640	4.651
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):		0.227	0.228
Numerical Performance Indicator:		0.934	1.020
Percent Recovery:		-1.28	-0.29
Status vs Numerical Indicator:		86.42%	96.68%
Upper % Recovery Limits:		N/A	N/A
Lower % Recovery Limits:		Pass	Pass
		135%	135%
		60%	60%

Duplicate Sample Assessment		Enter Duplicate sample IDs if other than LCS/LCSD in the space below.	
Sample I.D.:	LCS63272		
Duplicate Sample I.D.:	LCS63272		
Sample Result (pCi/L, g, F):	4.009		
Sample Duplicate Result (pCi/L, g, F):	0.934		
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	4.497		
Are sample and/or duplicate results below RL?	1.020		
Duplicate Numerical Performance Indicator:	NO		
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	-0.691		
Duplicate Status vs Numerical Indicator:	11.22%		
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): 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. 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:

Mull/3/21

Attachment 2-2

December 2021 Annual Assessment Sampling Event
Laboratory Analytical Report

February 02, 2022

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

RE: Project: LEC INACTIVE ASH PONDS CCR
Pace Project No.: 60387769

Dear Jake Humphrey:

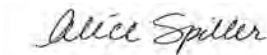
Enclosed are the analytical results for sample(s) received by the laboratory on December 06, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise 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
- Pace Analytical Services - Greensburg

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

Sincerely,



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

Enclosures

cc: Laura Hines, Evergy, Inc.
Tabitha Hylton, Evergy Kansas Central, Inc. Lawrence
Energy Center
Samantha Kaney, Haley & Aldrich
Melissa Michels, Evergy, Inc.
Jared Morrison, Evergy, Inc.
Danielle Oberbroeckling, Haley & Aldrich
Danielle Oberbroeckling, Haley Aldrich
Zach Phillips, Evergy, Inc.
Melanie Sataneck, Haley & Aldrich, Inc.



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
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CERTIFICATIONS

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60387769

Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601

ANAB DOD-ELAP Rad Accreditation #: L2417

Alabama Certification #: 41590

Arizona Certification #: AZ0734

Arkansas Certification

California Certification #: 04222CA

Colorado Certification #: PA01547

Connecticut Certification #: PH-0694

Delaware Certification

EPA Region 4 DW Rad

Florida/TNI Certification #: E87683

Georgia Certification #: C040

Florida: Cert E871149 SEKS WET

Guam Certification

Hawaii Certification

Idaho Certification

Illinois Certification

Indiana Certification

Iowa Certification #: 391

Kansas/TNI Certification #: E-10358

Kentucky Certification #: KY90133

KY WW Permit #: KY0098221

KY WW Permit #: KY0000221

Louisiana DHH/TNI Certification #: LA180012

Louisiana DEQ/TNI Certification #: 4086

Maine Certification #: 2017020

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 #: PA014572018-1

New Hampshire/TNI Certification #: 297617

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 #: PA200002-010

Pennsylvania/TNI Certification #: 65-00282

Puerto Rico Certification #: PA01457

Rhode Island Certification #: 65-00282

South Dakota Certification

Tennessee Certification #: 02867

Texas/TNI Certification #: T104704188-17-3

Utah/TNI Certification #: PA014572017-9

USDA Soil Permit #: P330-17-00091

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

Wyoming Certification #: 8TMS-L

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

Michigan Drinking Water Laboratory #9050

Ohio VAP Certified Laboratory #: CL0065

Oklahoma Laboratory #: 9204

Texas Certification #: T104704355

Wisconsin Laboratory #: 999788130

USDA Soil Permit #: P330-19-00257

Pace Analytical Services Kansas

9608 Loiret Boulevard, Lenexa, KS 66219

Missouri Inorganic Drinking Water Certification #: 10090

Arkansas Drinking Water

Arkansas Certification #: 20-020-0

Arkansas Drinking Water

Illinois Certification #: 2000302021-3

Iowa Certification #: 118

Kansas/NELAP Certification #: E-10116

Louisiana Certification #: 03055

Nevada Certification #: KS000212020-2

Oklahoma Certification #: 9205/9935

Florida: Cert E871149 SEKS WET

Texas Certification #: T104704407-19-12

Utah Certification #: KS000212019-9

Illinois Certification #: 004592

Kansas Field Laboratory Accreditation: # E-92587

Missouri SEKS Micro Certification: 10070

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60387769

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60387769001	MW-37-120621	Water	12/06/21 09:35	12/06/21 15:30
60387769002	MW-38-120621	Water	12/06/21 10:50	12/06/21 15:30
60387769003	MW-39-120621	Water	12/06/21 11:40	12/06/21 15:30
60387769004	MW-40-120621	Water	12/06/21 14:10	12/06/21 15:30
60387769005	MW-K-120621	Water	12/06/21 13:30	12/06/21 15:30
60387769006	MW-L-120621	Water	12/06/21 12:45	12/06/21 15:30
60387769007	LEC AP-DUP-120621	Water	12/06/21 00:00	12/06/21 15:30

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60387769

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60387769001	MW-37-120621	EPA 200.7	JLH	4	PASI-K
		EPA 6010	JPK	1	PASI-I
		EPA 200.8	MRV	7	PASI-K
		EPA 245.1	CJH1	1	PASI-K
		EPA 903.1	SLC	1	PASI-PA
		EPA 904.0	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
60387769002	MW-38-120621	EPA 300.0	MAW	1	PASI-K
		EPA 200.7	JLH	4	PASI-K
		EPA 6010	JPK	1	PASI-I
		EPA 200.8	MRV	7	PASI-K
		EPA 245.1	CJH1	1	PASI-K
		EPA 903.1	SLC	1	PASI-PA
		EPA 904.0	JC2	1	PASI-PA
Total Radium Calculation	JAL	1	PASI-PA		
60387769003	MW-39-120621	EPA 300.0	MAW	1	PASI-K
		EPA 200.7	JLH	4	PASI-K
		EPA 6010	JPK	1	PASI-I
		EPA 200.8	MRV	7	PASI-K
		EPA 245.1	CJH1	1	PASI-K
		EPA 903.1	SLC	1	PASI-PA
		EPA 904.0	JC2	1	PASI-PA
Total Radium Calculation	JAL	1	PASI-PA		
60387769004	MW-40-120621	EPA 300.0	MAW	1	PASI-K
		EPA 200.7	JLH	4	PASI-K
		EPA 6010	JPK	1	PASI-I
		EPA 200.8	MRV	7	PASI-K
		EPA 245.1	CJH1	1	PASI-K
		EPA 903.1	SLC	1	PASI-PA
		EPA 904.0	JC2	1	PASI-PA
Total Radium Calculation	JAL	1	PASI-PA		
60387769005	MW-K-120621	EPA 300.0	MAW	1	PASI-K
		EPA 200.7	JLH	4	PASI-K
		EPA 6010	JPK	1	PASI-I
		EPA 200.8	MRV	7	PASI-K
		EPA 245.1	CJH1	1	PASI-K
		EPA 903.1	SLC	1	PASI-PA

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60387769

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60387769006	MW-L-120621	EPA 904.0	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 300.0	MAW	1	PASI-K
		EPA 200.7	JLH	4	PASI-K
		EPA 6010	JPK	1	PASI-I
		EPA 200.8	MRV	7	PASI-K
		EPA 245.1	CJH1	1	PASI-K
		EPA 903.1	SLC	1	PASI-PA
		EPA 904.0	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
60387769007	LEC AP-DUP-120621	EPA 300.0	MAW	1	PASI-K
		EPA 200.7	JLH	4	PASI-K
		EPA 6010	JPK	1	PASI-I
		EPA 200.8	MRV	7	PASI-K
		EPA 245.1	CJH1	1	PASI-K
		EPA 903.1	SLC	1	PASI-PA
		EPA 904.0	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 300.0	MAW	1	PASI-K

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

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60387769

Method: EPA 200.7

Description: 200.7 Metals, Total

Client: Evergy Kansas Central, Inc.

Date: February 02, 2022

General Information:

7 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:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60387769

Method: EPA 6010

Description: 6010 MET ICP

Client: Evergy Kansas Central, Inc.

Date: February 02, 2022

General Information:

7 samples were analyzed for EPA 6010 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 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:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60387769

Method: EPA 200.8

Description: 200.8 MET ICPMS

Client: Evergy Kansas Central, Inc.

Date: February 02, 2022

General Information:

7 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:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60387769

Method: EPA 245.1

Description: 245.1 Mercury

Client: Evergy Kansas Central, Inc.

Date: February 02, 2022

General Information:

7 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: 760697

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60387519001,60387769001

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

- MS (Lab ID: 3043651)
 - Mercury
- MSD (Lab ID: 3043652)
 - Mercury

Additional Comments:

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PROJECT NARRATIVE

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60387769

Method: EPA 903.1

Description: 903.1 Radium 226

Client: Evergy Kansas Central, Inc.

Date: February 02, 2022

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: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60387769

Method: EPA 904.0

Description: 904.0 Radium 228

Client: Evergy Kansas Central, Inc.

Date: February 02, 2022

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: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60387769

Method: Total Radium Calculation

Description: Total Radium 228+226

Client: Evergy Kansas Central, Inc.

Date: February 02, 2022

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:

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PROJECT NARRATIVE

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60387769

Method: EPA 300.0

Description: 300.0 IC Anions 28 Days

Client: Evergy Kansas Central, Inc.

Date: February 02, 2022

General Information:

7 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: 761425

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60387769003,60388098001

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

- MS (Lab ID: 3046742)
- Fluoride

Additional Comments:

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: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60387769

Sample: MW-37-120621	Lab ID: 60387769001	Collected: 12/06/21 09:35		Received: 12/06/21 15:30		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	0.074	mg/L	0.0050	1	12/13/21 08:35	12/13/21 16:16	7440-39-3	
Beryllium, Total Recoverable	<0.0010	mg/L	0.0010	1	12/13/21 08:35	12/13/21 16:16	7440-41-7	
Chromium, Total Recoverable	<0.0050	mg/L	0.0050	1	12/13/21 08:35	12/13/21 16:16	7440-47-3	
Lead, Total Recoverable	<0.010	mg/L	0.010	1	12/13/21 08:35	12/13/21 16:16	7439-92-1	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Lithium, Total Recoverable	0.026	mg/L	0.010	1	01/17/22 08:15	01/17/22 21:57	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	12/13/21 08:35	12/20/21 11:37	7440-36-0	
Arsenic, Total Recoverable	0.0047	mg/L	0.0010	1	12/13/21 08:35	12/20/21 11:37	7440-38-2	
Cadmium, Total Recoverable	<0.00050	mg/L	0.00050	1	12/13/21 08:35	12/20/21 11:37	7440-43-9	
Cobalt, Total Recoverable	<0.0010	mg/L	0.0010	1	12/13/21 08:35	12/20/21 11:37	7440-48-4	
Molybdenum, Total Recoverable	0.095	mg/L	0.0010	1	12/13/21 08:35	12/20/21 11:37	7439-98-7	
Selenium, Total Recoverable	<0.0010	mg/L	0.0010	1	12/13/21 08:35	12/20/21 11:37	7782-49-2	
Thallium, Total Recoverable	<0.0010	mg/L	0.0010	1	12/13/21 08:35	12/20/21 11:37	7440-28-0	
245.1 Mercury								
Analytical Method: EPA 245.1 Preparation Method: EPA 245.1								
Pace Analytical Services - Kansas City								
Mercury	<0.00020	mg/L	0.00020	1	12/09/21 16:08	12/14/21 11:10	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		12/08/21 11:52	16984-48-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60387769

Sample: MW-38-120621	Lab ID: 60387769002	Collected: 12/06/21 10:50		Received: 12/06/21 15:30		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	0.043	mg/L	0.0050	1	12/13/21 08:35	12/13/21 16:26	7440-39-3	
Beryllium, Total Recoverable	<0.0010	mg/L	0.0010	1	12/13/21 08:35	12/13/21 16:26	7440-41-7	
Chromium, Total Recoverable	<0.0050	mg/L	0.0050	1	12/13/21 08:35	12/13/21 16:26	7440-47-3	
Lead, Total Recoverable	<0.010	mg/L	0.010	1	12/13/21 08:35	12/13/21 16:26	7439-92-1	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Lithium, Total Recoverable	0.057	mg/L	0.010	1	01/17/22 08:15	01/17/22 22:00	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	12/13/21 08:35	12/20/21 11:52	7440-36-0	
Arsenic, Total Recoverable	0.019	mg/L	0.0010	1	12/13/21 08:35	12/20/21 11:52	7440-38-2	
Cadmium, Total Recoverable	<0.00050	mg/L	0.00050	1	12/13/21 08:35	12/20/21 11:52	7440-43-9	
Cobalt, Total Recoverable	<0.0010	mg/L	0.0010	1	12/13/21 08:35	12/20/21 11:52	7440-48-4	
Molybdenum, Total Recoverable	0.061	mg/L	0.0010	1	12/13/21 08:35	12/20/21 11:52	7439-98-7	
Selenium, Total Recoverable	<0.0010	mg/L	0.0010	1	12/13/21 08:35	12/20/21 11:52	7782-49-2	
Thallium, Total Recoverable	<0.0010	mg/L	0.0010	1	12/13/21 08:35	12/20/21 11:52	7440-28-0	
245.1 Mercury								
Analytical Method: EPA 245.1 Preparation Method: EPA 245.1								
Pace Analytical Services - Kansas City								
Mercury	<0.00020	mg/L	0.00020	1	12/09/21 16:08	12/14/21 11:19	7439-97-6	
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0								
Pace Analytical Services - Kansas City								
Fluoride	3.8	mg/L	0.20	1		12/08/21 12:06	16984-48-8	

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ANALYTICAL RESULTS

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60387769

Sample: MW-39-120621	Lab ID: 60387769003	Collected: 12/06/21 11:40	Received: 12/06/21 15:30	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	12/13/21 08:35	12/13/21 16:28	7440-39-3	
Beryllium, Total Recoverable	<0.0010	mg/L	0.0010	1	12/13/21 08:35	12/13/21 16:28	7440-41-7	
Chromium, Total Recoverable	<0.0050	mg/L	0.0050	1	12/13/21 08:35	12/13/21 16:28	7440-47-3	
Lead, Total Recoverable	<0.010	mg/L	0.010	1	12/13/21 08:35	12/13/21 16:28	7439-92-1	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Lithium, Total Recoverable	0.046	mg/L	0.010	1	01/17/22 08:15	01/17/22 22:02	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	12/13/21 08:35	12/20/21 11:56	7440-36-0	
Arsenic, Total Recoverable	0.012	mg/L	0.0010	1	12/13/21 08:35	12/20/21 11:56	7440-38-2	
Cadmium, Total Recoverable	<0.00050	mg/L	0.00050	1	12/13/21 08:35	12/20/21 11:56	7440-43-9	
Cobalt, Total Recoverable	0.0010	mg/L	0.0010	1	12/13/21 08:35	12/20/21 11:56	7440-48-4	
Molybdenum, Total Recoverable	0.21	mg/L	0.0010	1	12/13/21 08:35	12/20/21 11:56	7439-98-7	
Selenium, Total Recoverable	<0.0010	mg/L	0.0010	1	12/13/21 08:35	12/20/21 11:56	7782-49-2	
Thallium, Total Recoverable	<0.0010	mg/L	0.0010	1	12/13/21 08:35	12/20/21 11:56	7440-28-0	
245.1 Mercury								
Analytical Method: EPA 245.1 Preparation Method: EPA 245.1								
Pace Analytical Services - Kansas City								
Mercury	<0.00020	mg/L	0.00020	1	12/09/21 16:08	12/14/21 11:22	7439-97-6	
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0								
Pace Analytical Services - Kansas City								
Fluoride	1.3	mg/L	0.20	1		12/16/21 19:08	16984-48-8	

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ANALYTICAL RESULTS

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60387769

Sample: MW-40-120621	Lab ID: 60387769004	Collected: 12/06/21 14:10	Received: 12/06/21 15:30	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	0.035	mg/L	0.0050	1	12/13/21 08:35	12/13/21 16:30	7440-39-3	
Beryllium, Total Recoverable	<0.0010	mg/L	0.0010	1	12/13/21 08:35	12/13/21 16:30	7440-41-7	
Chromium, Total Recoverable	<0.0050	mg/L	0.0050	1	12/13/21 08:35	12/13/21 16:30	7440-47-3	
Lead, Total Recoverable	<0.010	mg/L	0.010	1	12/13/21 08:35	12/13/21 16:30	7439-92-1	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Lithium, Total Recoverable	0.042	mg/L	0.010	1	01/17/22 08:15	01/17/22 22:13	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	12/13/21 08:35	12/20/21 12:00	7440-36-0	
Arsenic, Total Recoverable	0.014	mg/L	0.0010	1	12/13/21 08:35	12/20/21 12:00	7440-38-2	
Cadmium, Total Recoverable	<0.00050	mg/L	0.00050	1	12/13/21 08:35	12/20/21 12:00	7440-43-9	
Cobalt, Total Recoverable	<0.0010	mg/L	0.0010	1	12/13/21 08:35	12/20/21 12:00	7440-48-4	
Molybdenum, Total Recoverable	0.068	mg/L	0.0010	1	12/13/21 08:35	12/20/21 12:00	7439-98-7	
Selenium, Total Recoverable	<0.0010	mg/L	0.0010	1	12/13/21 08:35	12/20/21 12:00	7782-49-2	
Thallium, Total Recoverable	<0.0010	mg/L	0.0010	1	12/13/21 08:35	12/20/21 12:00	7440-28-0	
245.1 Mercury								
Analytical Method: EPA 245.1 Preparation Method: EPA 245.1								
Pace Analytical Services - Kansas City								
Mercury	<0.00020	mg/L	0.00020	1	12/09/21 16:08	12/14/21 11:24	7439-97-6	
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0								
Pace Analytical Services - Kansas City								
Fluoride	0.93	mg/L	0.20	1		12/08/21 12:46	16984-48-8	

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ANALYTICAL RESULTS

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60387769

Sample: MW-K-120621	Lab ID: 60387769005	Collected: 12/06/21 13:30		Received: 12/06/21 15:30		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	0.034	mg/L	0.0050	1	12/13/21 08:35	12/13/21 16:33	7440-39-3	
Beryllium, Total Recoverable	<0.0010	mg/L	0.0010	1	12/13/21 08:35	12/13/21 16:33	7440-41-7	
Chromium, Total Recoverable	<0.0050	mg/L	0.0050	1	12/13/21 08:35	12/13/21 16:33	7440-47-3	
Lead, Total Recoverable	<0.010	mg/L	0.010	1	12/13/21 08:35	12/13/21 16:33	7439-92-1	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Lithium, Total Recoverable	0.054	mg/L	0.010	1	01/17/22 08:15	01/17/22 22:20	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	12/13/21 08:35	12/20/21 12:04	7440-36-0	
Arsenic, Total Recoverable	0.061	mg/L	0.0010	1	12/13/21 08:35	12/20/21 12:04	7440-38-2	
Cadmium, Total Recoverable	<0.00050	mg/L	0.00050	1	12/13/21 08:35	12/20/21 12:04	7440-43-9	
Cobalt, Total Recoverable	<0.0010	mg/L	0.0010	1	12/13/21 08:35	12/20/21 12:04	7440-48-4	
Molybdenum, Total Recoverable	0.035	mg/L	0.0010	1	12/13/21 08:35	12/20/21 12:04	7439-98-7	
Selenium, Total Recoverable	<0.0010	mg/L	0.0010	1	12/13/21 08:35	12/20/21 12:04	7782-49-2	
Thallium, Total Recoverable	<0.0010	mg/L	0.0010	1	12/13/21 08:35	12/20/21 12:04	7440-28-0	
245.1 Mercury								
Analytical Method: EPA 245.1 Preparation Method: EPA 245.1								
Pace Analytical Services - Kansas City								
Mercury	<0.00020	mg/L	0.00020	1	12/09/21 16:08	12/14/21 11:26	7439-97-6	
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0								
Pace Analytical Services - Kansas City								
Fluoride	3.6	mg/L	0.20	1		12/08/21 12:59	16984-48-8	

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ANALYTICAL RESULTS

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60387769

Sample: MW-L-120621	Lab ID: 60387769006	Collected: 12/06/21 12:45	Received: 12/06/21 15:30	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	12/13/21 08:35	12/13/21 16:35	7440-39-3	
Beryllium, Total Recoverable	<0.0010	mg/L	0.0010	1	12/13/21 08:35	12/13/21 16:35	7440-41-7	
Chromium, Total Recoverable	<0.0050	mg/L	0.0050	1	12/13/21 08:35	12/13/21 16:35	7440-47-3	
Lead, Total Recoverable	0.011	mg/L	0.010	1	12/13/21 08:35	12/13/21 16:35	7439-92-1	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Indianapolis								
Lithium, Total Recoverable	0.092	mg/L	0.010	1	01/17/22 08:15	01/17/22 22:22	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	12/13/21 08:35	12/20/21 12:08	7440-36-0	
Arsenic, Total Recoverable	0.026	mg/L	0.0010	1	12/13/21 08:35	12/20/21 12:08	7440-38-2	
Cadmium, Total Recoverable	<0.00050	mg/L	0.00050	1	12/13/21 08:35	12/20/21 12:08	7440-43-9	
Cobalt, Total Recoverable	<0.0010	mg/L	0.0010	1	12/13/21 08:35	12/20/21 12:08	7440-48-4	
Molybdenum, Total Recoverable	0.042	mg/L	0.0010	1	12/13/21 08:35	12/20/21 12:08	7439-98-7	
Selenium, Total Recoverable	<0.0010	mg/L	0.0010	1	12/13/21 08:35	12/20/21 12:08	7782-49-2	
Thallium, Total Recoverable	<0.0010	mg/L	0.0010	1	12/13/21 08:35	12/20/21 12:08	7440-28-0	
245.1 Mercury								
Analytical Method: EPA 245.1 Preparation Method: EPA 245.1								
Pace Analytical Services - Kansas City								
Mercury	<0.00020	mg/L	0.00020	1	12/09/21 16:08	12/14/21 11:29	7439-97-6	
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0								
Pace Analytical Services - Kansas City								
Fluoride	2.2	mg/L	0.20	1		12/08/21 13:12	16984-48-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60387769

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Sample: LEC AP-DUP-120621 Lab ID: 60387769007 Collected: 12/06/21 00:00 Received: 12/06/21 15:30 Matrix: Water								
200.7 Metals, Total Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City								
Barium, Total Recoverable	0.032	mg/L	0.0050	1	12/13/21 08:35	12/13/21 16:37	7440-39-3	
Beryllium, Total Recoverable	<0.0010	mg/L	0.0010	1	12/13/21 08:35	12/13/21 16:37	7440-41-7	
Chromium, Total Recoverable	<0.0050	mg/L	0.0050	1	12/13/21 08:35	12/13/21 16:37	7440-47-3	
Lead, Total Recoverable	<0.010	mg/L	0.010	1	12/13/21 08:35	12/13/21 16:37	7439-92-1	
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis								
Lithium, Total Recoverable	0.043	mg/L	0.010	1	01/17/22 08:15	01/17/22 22:24	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	12/13/21 08:35	12/20/21 12:16	7440-36-0	
Arsenic, Total Recoverable	0.011	mg/L	0.0010	1	12/13/21 08:35	12/20/21 12:16	7440-38-2	
Cadmium, Total Recoverable	<0.00050	mg/L	0.00050	1	12/13/21 08:35	12/20/21 12:16	7440-43-9	
Cobalt, Total Recoverable	<0.0010	mg/L	0.0010	1	12/13/21 08:35	12/20/21 12:16	7440-48-4	
Molybdenum, Total Recoverable	0.21	mg/L	0.0010	1	12/13/21 08:35	12/20/21 12:16	7439-98-7	
Selenium, Total Recoverable	<0.0010	mg/L	0.0010	1	12/13/21 08:35	12/20/21 12:16	7782-49-2	
Thallium, Total Recoverable	<0.0010	mg/L	0.0010	1	12/13/21 08:35	12/20/21 12:16	7440-28-0	
245.1 Mercury Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Kansas City								
Mercury	<0.00020	mg/L	0.00020	1	12/09/21 16:08	12/14/21 11:31	7439-97-6	
300.0 IC Anions 28 Days Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City								
Fluoride	1.2	mg/L	0.20	1		12/08/21 13:26	16984-48-8	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60387769

QC Batch:	760697	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: 60387769001, 60387769002, 60387769003, 60387769004, 60387769005, 60387769006, 60387769007

METHOD BLANK: 3043649 Matrix: Water
Associated Lab Samples: 60387769001, 60387769002, 60387769003, 60387769004, 60387769005, 60387769006, 60387769007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/L	<0.00020	0.00020	12/14/21 10:43	

LABORATORY CONTROL SAMPLE: 3043650

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.005	0.0048	97	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3043651 3043652

Parameter	Units	60387519001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.005	0.005	0.0018	0.0017	37	33	70-130	10	20	M1

MATRIX SPIKE SAMPLE: 3043653

Parameter	Units	60387769001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	<0.00020	0.005	0.0044	88	70-130	

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QUALITY CONTROL DATA

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60387769

QC Batch:	761240	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: 60387769001, 60387769002, 60387769003, 60387769004, 60387769005, 60387769006, 60387769007

METHOD BLANK: 3046186 Matrix: Water
Associated Lab Samples: 60387769001, 60387769002, 60387769003, 60387769004, 60387769005, 60387769006, 60387769007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Barium	mg/L	<0.0050	0.0050	12/13/21 16:12	
Beryllium	mg/L	<0.0010	0.0010	12/13/21 16:12	
Chromium	mg/L	<0.0050	0.0050	12/13/21 16:12	
Lead	mg/L	<0.010	0.010	12/13/21 16:12	

LABORATORY CONTROL SAMPLE: 3046187

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	mg/L	1	0.99	99	85-115	
Beryllium	mg/L	1	1.0	102	85-115	
Chromium	mg/L	1	1.0	100	85-115	
Lead	mg/L	1	0.99	99	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3046188 3046189

Parameter	Units	60387769001		3046189		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Barium	mg/L	0.074	1	1	1.1	1.1	99	98	70-130	0	20
Beryllium	mg/L	<0.0010	1	1	1.0	1.0	103	102	70-130	1	20
Chromium	mg/L	<0.0050	1	1	1.0	0.99	100	99	70-130	1	20
Lead	mg/L	<0.010	1	1	0.98	0.97	98	97	70-130	1	20

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QUALITY CONTROL DATA

Project: LEC INACTIVE ASH PONDS CCR
Pace Project No.: 60387769

QC Batch: 761237 Analysis Method: EPA 200.8
QC Batch Method: EPA 200.8 Analysis Description: 200.8 MET
Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60387769001, 60387769002, 60387769003, 60387769004, 60387769005, 60387769006, 60387769007

METHOD BLANK: 3046182 Matrix: Water
Associated Lab Samples: 60387769001, 60387769002, 60387769003, 60387769004, 60387769005, 60387769006, 60387769007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	mg/L	<0.0010	0.0010	12/20/21 11:31	
Arsenic	mg/L	<0.0010	0.0010	12/20/21 11:31	
Cadmium	mg/L	<0.00050	0.00050	12/20/21 11:31	
Cobalt	mg/L	<0.0010	0.0010	12/20/21 11:31	
Molybdenum	mg/L	<0.0010	0.0010	12/20/21 11:31	
Selenium	mg/L	<0.0010	0.0010	12/20/21 11:31	
Thallium	mg/L	<0.0010	0.0010	12/20/21 11:31	

LABORATORY CONTROL SAMPLE: 3046183

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	0.040	99	85-115	
Cadmium	mg/L	0.04	0.039	98	85-115	
Cobalt	mg/L	0.04	0.037	93	85-115	
Molybdenum	mg/L	0.04	0.039	98	85-115	
Selenium	mg/L	0.04	0.040	100	85-115	
Thallium	mg/L	0.04	0.038	94	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3046184 3046185

Parameter	Units	3046184		3046185		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Antimony	mg/L	<0.0010	0.04	0.04	0.038	0.039	94	96	70-130	2	20
Arsenic	mg/L	0.0047	0.04	0.04	0.044	0.045	98	100	70-130	2	20
Cadmium	mg/L	<0.00050	0.04	0.04	0.036	0.037	91	93	70-130	2	20
Cobalt	mg/L	<0.0010	0.04	0.04	0.035	0.036	87	88	70-130	2	20
Molybdenum	mg/L	0.095	0.04	0.04	0.13	0.14	91	101	70-130	3	20
Selenium	mg/L	<0.0010	0.04	0.04	0.037	0.038	92	95	70-130	3	20
Thallium	mg/L	<0.0010	0.04	0.04	0.036	0.037	91	92	70-130	1	20

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QUALITY CONTROL DATA

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60387769

QC Batch:	658744	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 60387769001, 60387769002, 60387769003, 60387769004, 60387769005, 60387769006, 60387769007

METHOD BLANK: 3035292 Matrix: Water

Associated Lab Samples: 60387769001, 60387769002, 60387769003, 60387769004, 60387769005, 60387769006, 60387769007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lithium	mg/L	ND	0.010	01/17/22 21:55	

LABORATORY CONTROL SAMPLE: 3035293

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: 3035294 3035295

Parameter	Units	3035294		3035295		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		60387769003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
Lithium	mg/L	0.046	1	1	1.0	1.1	98	108	75-125	9	20	

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QUALITY CONTROL DATA

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60387769

QC Batch: 760323

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: 60387769001, 60387769002, 60387769004, 60387769005, 60387769006, 60387769007

METHOD BLANK: 3042101

Matrix: Water

Associated Lab Samples: 60387769001, 60387769002, 60387769004, 60387769005, 60387769006, 60387769007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Fluoride	mg/L	<0.20	0.20	12/08/21 08:37	

METHOD BLANK: 3044602

Matrix: Water

Associated Lab Samples: 60387769001, 60387769002, 60387769004, 60387769005, 60387769006, 60387769007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Fluoride	mg/L	<0.20	0.20	12/09/21 19:49	

LABORATORY CONTROL SAMPLE: 3042102

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Fluoride	mg/L	2.5	2.5	101	90-110	

LABORATORY CONTROL SAMPLE: 3044603

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Fluoride	mg/L	2.5	2.5	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3042103 3042104

Parameter	Units	3042103		3042104		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		60387774001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
Fluoride	mg/L	ND	12.5	12.5	12.9	12.9	103	104	80-120	0	15	

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QUALITY CONTROL DATA

Project: LEC INACTIVE ASH PONDS CCR
Pace Project No.: 60387769

QC Batch: 761425	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: 60387769003

METHOD BLANK: 3046738 Matrix: Water
Associated Lab Samples: 60387769003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Fluoride	mg/L	<0.20	0.20	12/14/21 16:38	

METHOD BLANK: 3050616 Matrix: Water
Associated Lab Samples: 60387769003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Fluoride	mg/L	<0.20	0.20	12/16/21 09:11	

METHOD BLANK: 3051969 Matrix: Water
Associated Lab Samples: 60387769003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Fluoride	mg/L	<0.20	0.20	12/17/21 14:10	

LABORATORY CONTROL SAMPLE: 3050617

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Fluoride	mg/L	2.5	2.5	100	90-110	

LABORATORY CONTROL SAMPLE: 3051970

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Fluoride	mg/L	2.5	2.6	104	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3046740 3046741

Parameter	Units	3046740		3046741		MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		MS Result	MSD Result	MS Result	MSD Result					
Fluoride	mg/L	1.3	2.5	2.5	4.0	107	108	80-120	0	15

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QUALITY CONTROL DATA

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60387769

MATRIX SPIKE SAMPLE:		3046742					
Parameter	Units	60388098001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Fluoride	mg/L	ND	250	335	134	80-120	M1

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REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60387769

Sample: MW-37-120621 **Lab ID: 60387769001** Collected: 12/06/21 09:35 Received: 12/06/21 15:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.0127 ± 0.408 (0.819) C:NA T:98%	pCi/L	01/22/22 12:52	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.394 ± 0.437 (0.908) C:68% T:91%	pCi/L	01/19/22 17:06	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.407 ± 0.845 (1.73)	pCi/L	01/24/22 11:12	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60387769

Sample: MW-38-120621 **Lab ID: 60387769002** Collected: 12/06/21 10:50 Received: 12/06/21 15:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	-0.218 ± 0.456 (1.03) C:NA T:97%	pCi/L	01/22/22 13:11	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.167 ± 0.453 (1.02) C:68% T:89%	pCi/L	01/19/22 17:06	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.167 ± 0.909 (2.05)	pCi/L	01/24/22 11:12	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60387769

Sample: MW-39-120621 **Lab ID: 60387769003** Collected: 12/06/21 11:40 Received: 12/06/21 15:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.0771 ± 0.432 (0.828) C:NA T:97%	pCi/L	01/22/22 13:11	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	1.04 ± 0.558 (0.997) C:71% T:92%	pCi/L	01/19/22 17:32	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.12 ± 0.990 (1.83)	pCi/L	01/24/22 11:12	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60387769

Sample: MW-40-120621 **Lab ID: 60387769004** Collected: 12/06/21 14:10 Received: 12/06/21 15:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	-0.0553 ± 0.423 (0.891) C:NA T:98%	pCi/L	01/22/22 13:11	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	1.49 ± 0.661 (1.11) C:69% T:94%	pCi/L	01/19/22 17:32	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.49 ± 1.08 (2.00)	pCi/L	01/24/22 11:12	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60387769

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: MW-K-120621 Lab ID: 60387769005 Collected: 12/06/21 13:30 Received: 12/06/21 15:30 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.366 ± 0.549 (0.908) C:NA T:99%	pCi/L	01/22/22 13:11	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.958 ± 0.601 (1.13) C:71% T:87%	pCi/L	01/19/22 17:33	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.32 ± 1.15 (2.04)	pCi/L	01/24/22 11:12	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60387769

Sample: MW-L-120621 **Lab ID: 60387769006** Collected: 12/06/21 12:45 Received: 12/06/21 15:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.497 ± 0.518 (0.782) C:NA T:99%	pCi/L	01/22/22 13:11	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.770 ± 0.549 (1.07) C:70% T:86%	pCi/L	01/19/22 17:33	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.27 ± 1.07 (1.85)	pCi/L	01/24/22 11:12	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60387769

Sample: LEC AP-DUP-120621 **Lab ID: 60387769007** Collected: 12/06/21 00:00 Received: 12/06/21 15:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.274 ± 0.628 (1.10) C:NA T:94%	pCi/L	01/22/22 13:11	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.590 ± 0.599 (1.24) C:65% T:87%	pCi/L	01/19/22 17:33	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.864 ± 1.23 (2.34)	pCi/L	01/24/22 11:12	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60387769

QC Batch: 478385

Analysis Method: EPA 904.0

QC Batch Method: EPA 904.0

Analysis Description: 904.0 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 60387769001, 60387769002, 60387769003, 60387769004, 60387769005, 60387769006, 60387769007

METHOD BLANK: 2312053

Matrix: Water

Associated Lab Samples: 60387769001, 60387769002, 60387769003, 60387769004, 60387769005, 60387769006, 60387769007

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.240 ± 0.282 (0.587) C:65% T:87%	pCi/L	01/19/22 11:27	

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60387769

QC Batch: 478384

Analysis Method: EPA 903.1

QC Batch Method: EPA 903.1

Analysis Description: 903.1 Radium-226

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 60387769001, 60387769002, 60387769003, 60387769004, 60387769005, 60387769006, 60387769007

METHOD BLANK: 2312052

Matrix: Water

Associated Lab Samples: 60387769001, 60387769002, 60387769003, 60387769004, 60387769005, 60387769006, 60387769007

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.221 ± 0.347 (0.581) C:NA T:98%	pCi/L	01/22/22 12:52	

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: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60387769

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

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60387769

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60387769001	MW-37-120621	EPA 200.7	761240	EPA 200.7	761376
60387769002	MW-38-120621	EPA 200.7	761240	EPA 200.7	761376
60387769003	MW-39-120621	EPA 200.7	761240	EPA 200.7	761376
60387769004	MW-40-120621	EPA 200.7	761240	EPA 200.7	761376
60387769005	MW-K-120621	EPA 200.7	761240	EPA 200.7	761376
60387769006	MW-L-120621	EPA 200.7	761240	EPA 200.7	761376
60387769007	LEC AP-DUP-120621	EPA 200.7	761240	EPA 200.7	761376
60387769001	MW-37-120621	EPA 3010	658744	EPA 6010	658883
60387769002	MW-38-120621	EPA 3010	658744	EPA 6010	658883
60387769003	MW-39-120621	EPA 3010	658744	EPA 6010	658883
60387769004	MW-40-120621	EPA 3010	658744	EPA 6010	658883
60387769005	MW-K-120621	EPA 3010	658744	EPA 6010	658883
60387769006	MW-L-120621	EPA 3010	658744	EPA 6010	658883
60387769007	LEC AP-DUP-120621	EPA 3010	658744	EPA 6010	658883
60387769001	MW-37-120621	EPA 200.8	761237	EPA 200.8	761375
60387769002	MW-38-120621	EPA 200.8	761237	EPA 200.8	761375
60387769003	MW-39-120621	EPA 200.8	761237	EPA 200.8	761375
60387769004	MW-40-120621	EPA 200.8	761237	EPA 200.8	761375
60387769005	MW-K-120621	EPA 200.8	761237	EPA 200.8	761375
60387769006	MW-L-120621	EPA 200.8	761237	EPA 200.8	761375
60387769007	LEC AP-DUP-120621	EPA 200.8	761237	EPA 200.8	761375
60387769001	MW-37-120621	EPA 245.1	760697	EPA 245.1	760895
60387769002	MW-38-120621	EPA 245.1	760697	EPA 245.1	760895
60387769003	MW-39-120621	EPA 245.1	760697	EPA 245.1	760895
60387769004	MW-40-120621	EPA 245.1	760697	EPA 245.1	760895
60387769005	MW-K-120621	EPA 245.1	760697	EPA 245.1	760895
60387769006	MW-L-120621	EPA 245.1	760697	EPA 245.1	760895
60387769007	LEC AP-DUP-120621	EPA 245.1	760697	EPA 245.1	760895
60387769001	MW-37-120621	EPA 903.1	478384		
60387769002	MW-38-120621	EPA 903.1	478384		
60387769003	MW-39-120621	EPA 903.1	478384		
60387769004	MW-40-120621	EPA 903.1	478384		
60387769005	MW-K-120621	EPA 903.1	478384		
60387769006	MW-L-120621	EPA 903.1	478384		
60387769007	LEC AP-DUP-120621	EPA 903.1	478384		
60387769001	MW-37-120621	EPA 904.0	478385		
60387769002	MW-38-120621	EPA 904.0	478385		
60387769003	MW-39-120621	EPA 904.0	478385		
60387769004	MW-40-120621	EPA 904.0	478385		
60387769005	MW-K-120621	EPA 904.0	478385		
60387769006	MW-L-120621	EPA 904.0	478385		
60387769007	LEC AP-DUP-120621	EPA 904.0	478385		
60387769001	MW-37-120621	Total Radium Calculation	480450		
60387769002	MW-38-120621	Total Radium Calculation	480450		
60387769003	MW-39-120621	Total Radium Calculation	480450		
60387769004	MW-40-120621	Total Radium Calculation	480450		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60387769

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60387769005	MW-K-120621	Total Radium Calculation	480450		
60387769006	MW-L-120621	Total Radium Calculation	480450		
60387769007	LEC AP-DUP-120621	Total Radium Calculation	480450		
60387769001	MW-37-120621	EPA 300.0	760323		
60387769002	MW-38-120621	EPA 300.0	760323		
60387769003	MW-39-120621	EPA 300.0	761425		
60387769004	MW-40-120621	EPA 300.0	760323		
60387769005	MW-K-120621	EPA 300.0	760323		
60387769006	MW-L-120621	EPA 300.0	760323		
60387769007	LEC AP-DUP-120621	EPA 300.0	760323		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

WO#: 60387769



Client Name: Energy

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: T99 Type of Ice: Water Blue None

Cooler Temperature (°C): As-read 9.3 Corr. Factor -0.2 Corrected 9.1

Date and initials of person examining contents: SM 12/7/21

Temperature should be above freezing to 6°C 1.8 -0.2 1.6

Chain of Custody present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Chain of Custody relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Samples arrived within holding time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Short Hold Time analyses (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Rush Turn Around Time requested:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<u>7045</u>
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Correct containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Unpreserved 5035A / TX1005/1006 soils frozen in 48hrs?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Filtered volume received for dissolved tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Sample labels match COC: Date / time / ID / analyses	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Samples contain multiple phases? Matrix: <u>WI</u>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> 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# <u>603173</u>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> 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)	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Potassium iodide test strip turns blue/purple? (Preserve)	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Trip Blank present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Headspace in VOA vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Samples from USDA Regulated Area: State:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Additional labels attached to 5035A / TX1005 vials in the field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> 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: _____



CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information: Company: EVERGY KANSAS CENTRAL, INC. Address: Lawrence Energy Center (LEC) 818 Kansas Ave, Topeka, KS 66612 Email To: melissa.michels@evergy.com Phone: 785-575-8113 Fax: Requested Due Date/TAT: 7 day		Section B Required Project Information: Report To: Melissa Michels Copy To: Jared Morrison, Jake Humphrey, Laura Hines Andrew Hare, Tabitha Hylton, Samantha Kaney Purchase Order No.: 10LEC-0000018165 Project Name: LEC Inactive Ash Ponds CCR Project Number:		Section C Invoice Information: Attention: Accounts Payable Company Name: EVERGY KANSAS CENTRAL, INC Address: SAME AS A Pace Quote Reference: Pace Project Manager: Alice Spiller, 913-563-1403 Pace Profile #: 9655, 3	
REGULATORY AGENCY <input type="checkbox"/> NPDES <input checked="" type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input type="checkbox"/> UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER		Site Location STATE: KS			

ITEM #	Valid Matrix Codes MATRIX CODE DRINKING WATER DW WATER WT WASTE WATER WW PRODUCT P SOILSOLID SL OIL OL WIPE WP AIR AR OTHER OT TISSUE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		# OF CONTAINERS	UNPRESERVED H ₂ SO ₄ HNO ₃ HCl NaOH Na ₂ S ₂ O ₃ Methanol Other	Y/N	Requested Analysis Filtered (Y/N)												Pace Project No./ Lab I.D.			
				DATE	TIME				DATE	TIME	200.7 Total Metals*	200.8 Total Metals**	300.F	245.1 Hg	6010 Total Metals***	Radium 226	Radium 228	Total Radium	Residual Chlorine (Y/N)					
1	MW-37-120621	WT G	-	12/06/21	0935	4	1	3	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
2	MW-38-120621	WT G	-	12/06/21	1050	4	1	3	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
3	MW-39-120621	WT G	-	12/06/21	1140	4	1	3	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
4	MW-40-120621	WT G	-	12/06/21	1410	4	1	3	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
5	MW-K-120621	WT G	-	12/06/21	1330	4	1	3	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
6	MW-L-120621	WT G	-	12/06/21	1245	4	1	3	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
7	LEC AP-DUP-120621	WT G	-	12/06/21	-	4	1	3	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
8																								
9																								
10																								
11																								
12																								

ADDITIONAL COMMENTS 200.7 Total Metals*: Ba, Be, Cr, Pb (4 metals) 200.8 Total Metals**: Sb, As, Cd, Co, Mo, Se, Tl (7 metals) 6010 Total Metals***: Li (1 metal) (2) 1L nitric preserved for all Radium analysis (Pace PM-see profile notes)		RELINQUISHED BY / AFFILIATION Britta Coleman / SCS	DATE 12/07/21 1530	TIME 1530	ACCEPTED BY / AFFILIATION Britta Coleman / Pace	DATE 12/6/21	TIME 0850	SAMPLE CONDITIONS Received on Ice (Y/N) <input checked="" type="checkbox"/> Y Cooled (Y/N) <input checked="" type="checkbox"/> Y Custody Sealed (Y/N) <input checked="" type="checkbox"/> Y Samples Intact (Y/N) <input checked="" type="checkbox"/> Y	
SAMPLER NAME AND SIGNATURE PRINT Name of SAMPLER: Britta Coleman SIGNATURE of SAMPLER: <i>[Signature]</i>		DATE Signed (MM/DD/YY): 12/11/21 12/6/21		Temp in °C		Residual Chlorine (Y/N)		Pace Project No./ Lab I.D.	

*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.

Sample Container Count

COC PAGE 1 of 1
 Client: EVERGY
 Site: LEC Inactive Ash Ponds C&E
 SBS
 DI
 MeOH (only)
 BK
 Kit

Profile # 9655, 3
 Notes

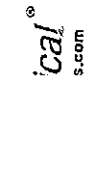
COC Line Item	Matrix	AG1U	AG1H	BG1U	DG9U	VG9U	DG9Q	DG9H	VG9H	AG5U	BP1U	BP2U	BP3U	BP1N	BP3N	BP3F	BP3S	BP3C	BP3Z	JGFU	WGKU	ZPLC	DG9M	DG9B	
1																									
2																									
3																									
4																									
5																									
6																									
7																									
8																									
9																									
10																									
11																									
12																									

Container Codes

Glass			Plastic			Misc.		
Code	Description	Material	Code	Description	Material	Code	Description	Material
DG9B	40mL bisulfate clear vial	WGKU	BP1C	1L NaOH plastic	Plastic	I	Wipe/Swab	Misc.
DG9H	40mL HCl amber vial	WGFU	BP1N	1L HNO3 plastic	Plastic	SP5T	120mL Coliform Na Thiosulfate	
DG9M	40mL MeOH clear vial	WG2U	BP1S	1L H2SO4 plastic	Plastic	ZPLC	Ziploc Bag	
DG9Q	40mL TSP amber vial	JGFU	BP1U	1L unpreserved plastic	Plastic	AF	Air Filter	
DG9S	40mL H2SO4 amber vial	AG0U	BP1Z	1L NaOH, Zn Acetate	Plastic	C	Air Cassettes	
DG9T	40mL Na Thio amber vial	AG1H	BP2C	500mL NaOH plastic	Plastic	R	Terracore Kit	
DG9U	40mL amber unpreserved	AG1S	BP2N	500mL HNO3 plastic	Plastic	U	Summa Can	
VG9H	40mL HCl clear vial	AG1T	BP2S	500mL H2SO4 plastic	Plastic			
VG9T	40mL Na Thio. clear vial	AG1U	BP2U	500mL unpreserved plastic	Plastic			
VG9U	40mL unpreserved clear vial	AG2N	BP2Z	500mL NaOH, Zn Acetate	Plastic			
BG1S	1liter unpreserved clear glass	AG2S	BP3C	250mL NaOH plastic	Plastic			
BG1U	1liter unpres glass	AG3S	BP3F	250mL HNO3 plastic - field filtered	Plastic			
BG3H	250mL HCl Clear glass	AG2U	BP3N	250mL HNO3 plastic	Plastic			
BG3U	250mL Unpres Clear glass	AG3U	BP3U	250mL unpreserved plastic	Plastic			
		AG4U	BP3S	250mL H2SO4 plastic	Plastic			
		AG5U	BP3Z	250mL NaOH, Zn Acetate	Plastic			
			BP4U	125mL unpreserved plastic	Plastic			
			BP4N	125mL HNO3 plastic	Plastic			
			BP4S	125mL H2SO4 plastic	Plastic			
						WT	Water	Matrix
						SL	Solid	
						NAL	Non-aqueous Liquid	
						OL	OIL	
						WP	Wipe	
						DW	Drinking Water	

Internal Transfer Chain of Custody

WO#: 30456500



30456500

State Of Origin: KS
 Cert. Needed: Yes No
 Owner Received Date: 12/6/2021

Samples Pre-Logged into eCOC.

Workorder: 60387769 Workorder Name: LEC INACTIVE ASH PONDS CCR Results Requested By: 12/20/2021
 Report To: Subcontract To: Requested Analysis

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		Radium 226	Radium 228	Total Radium	LAB USE ONLY
						HNO3	Other				
1	MW-37-120621	PS	12/6/2021 09:35	60387769001	Water	2		X	X	X	CE1
2	MW-38-120621	PS	12/6/2021 10:50	60387769002	Water	2		X	X	X	CE2
3	MW-39-120621	PS	12/6/2021 11:40	60387769003	Water	2		X	X	X	CE3
4	MW-40-120621	PS	12/6/2021 14:10	60387769004	Water	2		X	X	X	CE4
5	MW-K-120621	PS	12/6/2021 13:30	60387769005	Water	2		X	X	X	CE5
6	MW-L-120621	PS	12/6/2021 12:45	60387769006	Water	2		X	X	X	CE6
7	LEC AP-DUP-20621	PS	12/6/2021 00:00	60387769007	Water	2		X	X	X	CE7

Transfers	Released By	Date/Time	Received By	Date/Time	Comments
1	Alyssa Pace	12/16/2021 18:00	[Signature]	12/20/2021	*****PLEASE, PROVIDE QC SHEETS*****
2					
3					

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.

Profile 11795

Pittsburgh Lab Sample Condition Upon Receipt



Client Name: Pace KS

Project # #30456500

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Tracking #: 5333 8757 1138

Label <u>JM</u>
LIMS Login <u>JM</u>

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Thermometer Used N/A 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:	pH paper Lot#			Date and Initials of person examining contents: <u>ET 12-27-21</u>
	Yes	No	N/A	
Chain of Custody Present:	/			1. 10D2811
Chain of Custody Filled Out:	/			2.
Chain of Custody Relinquished:	/			3.
Sampler Name & Signature on COC:	/			4.
Sample Labels match COC:	/			5.
-Includes date/time/ID Matrix: <u>WT</u>				
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 sample field filtered			/	13.
Organic Samples checked for dechlorination:			/	14.
Filtered volume received for Dissolved tests			/	15.
All containers have been checked for preservation.	/			16.
exceptions: VOA, coliform, TOC, O&G, Phenolics, Radon, Non-aqueous matrix				
All containers meet method preservation requirements.	/			Initial when completed <u>ET</u> Date/time of preservation
				Lot # of added preservative
Headspace in VOA Vials (>6mm):			/	17. <u>PH22</u>
Trip Blank Present:	/			18.
Trip Blank Custody Seals Present	/			
Rad Samples Screened < 0.5 mrem/hr	/			Initial when completed: <u>ET</u> Date: <u>12-27-21</u> Survey Meter SN: <u>1563</u>

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____ Contacted By: _____

Comments/ Resolution: _____

A check in this box indicates that additional information has been stored in ereports.

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

*PM review is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.



SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: BC 1020 1/4/22

- 1. Courier: FED EX UPS CLIENT PACE USPS OTHER _____
- 2. Custody Seal on Cooler/Box Present: Yes No
(If yes) Seals Intact: Yes No (leave blank if no seals were present)
- 3. Thermometer: 1 2 3 4 5 6 A B C D E F
- 4. Cooler Temperature: 0.3/0.6
Temp should be above freezing to 6°C (Initial/Corrected)

- 5. Packing Material: Bubble Wrap Bubble Bags
 None Other _____
- 6. Ice Type: Wet Blue None
- 7. If temp. is over 6°C or under 0°C, was the PM notified?: Yes No

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR, CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		✓	All containers needing acid/base pres. Have been CHECKED?: exceptions: VOA, coliform, LLHg, O&G, and any container with a septum cap or preserved with HCl.	✓		
Short Hold Time Analysis (48 hours or less)? Analysis:		✓	Circle: <u>HNO3 (<2)</u> H2SO4 (<2) NaOH (>10) NaOH/ZnAc (>9) Any non-conformance to pH recommendations will be noted on the container count form			
Time 5035A TC placed in Freezer or Short Holds To Lab	Time:		Residual Chlorine Check (SVOC 625 Pest/PCB 608)	Present	Absent	N/A
Rush TAT Requested (4 days or less):		✓	Residual Chlorine Check (Total/Amenable/Free Cyanide)			✓
Custody Signatures Present?	✓		Headspace Wisconsin Sulfide?			✓
Containers Intact?:	✓		Headspace in VOA Vials (>6mm): See Containter Count form for details	Present	Absent	No VOA Vials Sent
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	✓		Trip Blank Present?		✓	
Extra labels on Terracore Vials? (soils only)		✓	Trip Blank Custody Seals?:			✓

COMMENTS:

Sample Container Count

SBS
DI
MeOH
(only)
BK
Kit

** Place a RED dot on containers that are out of conformance **

COC Line Item	WGUFU	R	DG9H	VG9H	VOA VIAL HS (>6mm)	VG9U	DG9U	VG9T	AG0U	AG1H	AG1U	AG2U	AG3S	AG3SF	AG3C	BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	CG3H	Syringe Kit	Matrix	HNO3/H2SO4 pH <2	NaOH/ZNAc pH >9	NaOH pH >10
1																											Σ	✓		
2																														
3																														
4																														
5																														
6																														
7																														
8																														
9																														
10																														
11																														
12																														

Container Codes

Glass				Plastic / Misc.			
DG9H	40mL HCl amber voa vial	BG1T	1L Na Thiosulfate clear glass	BP1B	1L NaOH plastic	BP4U	125mL unpreserved plastic
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass	BP1N	1L HNO3 plastic	BP4N	125mL HNO3 plastic
DG9S	40mL H2SO4 amber vial	BG3H	250mL HCl Clear Glass	BP1S	1L H2SO4 plastic	BP4S	125mL H2SO4 plastic
DG9T	40mL Na Thio amber vial	BG3U	250mL Unpres Clear Glass	BP1U	1L unpreserved plastic		
DG9U	40mL unpreserved amber vial	AG0U	100mL unpres amber glass	BP1Z	1L NaOH, Zn, Ac	Syringe Kit	LL Cr+6 sampling kit
VG9H	40mL HCl clear vial	AG1H	1L HCl amber glass	BP2N	500mL HNO3 plastic		
VG9T	40mL Na Thio. clear vial	AG1S	1L H2SO4 amber glass	BP2C	500mL NaOH plastic	AF	Air Filter
VG9U	40mL unpreserved clear vial	AG1T	1L Na Thiosulfate amber glass	BP2S	500mL H2SO4 plastic	C	Air Cassettes
I	40mL w/hexane wipe vial	AG1U	1liter unpres amber glass	BP2U	500mL unpreserved plastic	R	Terracore kit
WGKU	8oz unpreserved clear jar	AG2N	500mL HNO3 amber glass	BP2Z	500mL NaOH, Zn Ac	SP5T	120mL Coliform Na Thiosulfate
WGFU	4oz clear soil jar	AG2S	500mL H2SO4 amber glass	BP3B	250mL NaOH plastic	U	Summa Can
JGFU	4oz unpreserved amber wide	AG2U	500mL unpres amber glass	BP3N	250mL HNO3 plastic	ZPLC	Ziploc Bag
CG3H	250mL clear glass HCl	AG3S	250mL H2SO4 amber glass	BP3F	250mL HNO3 plastic-field filtered		
BG1H	1L HCl clear glass	AG3SF	250mL H2SO4 amb glass -field filtered	BP3U	250mL unpreserved plastic	WT	Water
BG1S	1L H2SO4 clear glass	AG3U	250mL unpres amber glass	BP3S	250mL H2SO4 plastic	SL	Solid
GN	General	AG3C	250mL NaOH amber glass	BP3Z	250mL NaOH, ZnAc plastic	NAL	OL Non-aqueous liquid Oil
						WP	Wipe

Quality Control Sample Performance Assessment



Test: Ra-228
Analyst: JC2
Date: 1/16/2022
Worklist: 64425
Matrix: WI

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2312053
MB concentration:	0.240
MB 2 Sigma CSU:	0.282
MB MDC:	0.587
MB Numerical Performance Indicator:	1.67
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCS/D (Y or N)?	
	LCS64425	Y
Count Date:	1/19/2022	LCS64425
Spike I.D.:	21-029	1/19/2022
Decay Corrected Spike Concentration (pCi/mL):	36.656	21-029
Volume Used (mL):	0.10	36.656
Aliquot Volume (L, g, F):	0.815	0.10
Target Conc. (pCi/L, g, F):	4.499	0.810
Uncertainty (Calculated):	0.220	4.523
Result (pCi/L, g, F):	3.999	4.503
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.935	1.014
Numerical Performance Indicator:	-1.02	-0.04
Percent Recovery:	88.87%	99.56%
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	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Sample I.D.:	LCS64425
Duplicate Sample I.D.:	LCS64425
Sample Result (pCi/L, g, F):	3.999
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.935
Sample Duplicate Result (pCi/L, g, F):	4.503
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.014
Are sample and/or duplicate results below RL?	NO
Duplicate Numerical Performance Indicator:	-0.717
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	11.35%
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: 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: 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:		

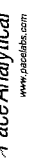
Matrix Spike/Matrix Spike Duplicate Sample Assessment
Sample I.D. Sample MS I.D. Sample MSD I.D. Matrix Spike Result 2 Sigma CSU (pCi/L, g, F): Sample Matrix Spike Duplicate Result: Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F): Duplicate Numerical Performance Indicator: (Based on the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

Handwritten signature and date: 1/20/2022

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226
Analyst: SLC
Date: 1/14/2022
Batch ID: 64424
Matrix: DW

Method Blank Assessment	
MB Sample ID	2312052
MB Concentration:	0.221
MB Counting Uncertainty:	0.346
MB MDC:	0.581
MB Numerical Performance Indicator:	1.25
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment		LCS/D (Y or N)?	Y
Count Date:		LCS64424	
Spike I.D.:		1/22/2022	
Spike Concentration (pCi/mL):		21-040	
Volume Used (mL):		32.435	
Aliquot Volume (L, g, F):		0.10	
Target Conc. (pCi/L, g, F):		0.665	
Uncertainty (Calculated):		4.880	
Result (pCi/L, g, F):		0.230	
LCS/LCSD Counting Uncertainty (pCi/L, g, F):		5.047	
Numerical Performance Indicator:		0.993	
Percent Recovery:		0.29	
Status vs Numerical Indicator:		103.07%	
Upper % Recovery Limits:		N/A	
Lower % Recovery Limits:		Pass	
		135%	
		73%	

Duplicate Sample Assessment	
Sample I.D.:	LCS64424
Duplicate Sample I.D.:	LCSDB64424
Sample Result Counting Uncertainty (pCi/L, g, F):	5.047
Sample Duplicate Result (pCi/L, g, F):	0.993
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	5.167
Are sample and/or duplicate results below RL?	1.117
Duplicate Numerical Performance Indicator:	NO
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	-0.158
Duplicate Status vs Numerical Indicator:	2.70%
Duplicate Status vs RPD:	N/A
% RPD Limit:	32%

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

Comments:

OK 1/14/22

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:		

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:

SLC 1/22/22

Attachment 2-3

March 2022 Semi-Annual Sampling Event
Laboratory Analytical Reports

May 04, 2022

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

RE: Project: LEC PERIMTER ASH POND WELLS CC
Pace Project No.: 60395394

Dear Jake Humphrey:

Enclosed are the analytical results for sample(s) received by the laboratory on March 17, 2022. 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 5/4/22 to include 6010 Li at lower dilutions.

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

Sincerely,



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

Enclosures

cc: Laura Hines, Evergy, Inc.
Tabitha Hylton, Evergy Kansas Central, Inc. Lawrence
Energy Center
Samantha Kaney, Haley & Aldrich
Melissa Michels, Evergy, Inc.
Jared Morrison, Evergy, Inc.
Danielle Oberbroeckling, Haley & Aldrich
Danielle Oberbroeckling, Haley Aldrich
Zach Phillips, Evergy, Inc.
Melanie Sataneck, Haley & Aldrich, Inc.



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
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CERTIFICATIONS

Project: LEC PERIMTER ASH POND WELLS CC

Pace Project No.: 60395394

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

Michigan Drinking Water Laboratory #9050

Ohio VAP Certified Laboratory #: CL0065

Oklahoma Laboratory #: 9204

Texas Certification #: T104704355

Wisconsin Laboratory #: 999788130

USDA Soil Permit #: P330-19-00257

Pace Analytical Services Kansas

9608 Loiret Boulevard, Lenexa, KS 66219

Missouri Inorganic Drinking Water Certification #: 10090

Arkansas Drinking Water

Arkansas Certification #: 20-020-0

Arkansas Drinking Water

Illinois Certification #: 2000302021-3

Iowa Certification #: 118

Kansas/NELAP Certification #: E-10116

Louisiana Certification #: 03055

Nevada Certification #: KS000212020-2

Oklahoma Certification #: 9205/9935

Florida: Cert E871149 SEKS WET

Texas Certification #: T104704407-21-15

Utah Certification #: KS000212019-9

Illinois Certification #: 004592

Kansas Field Laboratory Accreditation: # E-92587

Missouri SEKS Micro Certification: 10070

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: LEC PERIMTER ASH POND WELLS CC

Pace Project No.: 60395394

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60395394001	MW-A-032622	Water	03/16/22 10:45	03/17/22 16:00
60395394002	MW-B-031622	Water	03/16/22 12:30	03/17/22 16:00
60395394003	MW-C-031722	Water	03/17/22 12:15	03/17/22 16:00
60395394004	MW-D-031722	Water	03/17/22 09:10	03/17/22 16:00
60395394005	MW-G-031622	Water	03/16/22 09:10	03/17/22 16:00
60395394006	MW-M-031722	Water	03/17/22 10:35	03/17/22 16:00
60395394007	MW-N-031622	Water	03/16/22 14:50	03/17/22 16:00
60395394008	MW-O-031622	Water	03/16/22 15:00	03/17/22 16:00
60395394009	MW-P-031722	Water	03/17/22 11:40	03/17/22 16:00
60395394010	MW-101-031622	Water	03/16/22 12:00	03/17/22 16:00
60395394011	MW-102-031622	Water	03/16/22 13:25	03/17/22 16:00
60395394012	MW-103-031522	Water	03/15/22 13:10	03/17/22 16:00
60395394013	MW-104-031722	Water	03/17/22 10:55	03/17/22 16:00
60395394014	MW-106-031622	Water	03/16/22 17:55	03/17/22 16:00
60395394015	MW-107-031622	Water	03/16/22 16:20	03/17/22 16:00
60395394016	MW-108-031622	Water	03/16/22 13:35	03/17/22 16:00
60395394017	MW-109-031622	Water	03/16/22 16:30	03/17/22 16:00
60395394018	MW-110-031622	Water	03/16/22 17:30	03/17/22 16:00
60395394019	MW-112-031522	Water	03/15/22 10:05	03/17/22 16:00
60395394020	MW-113-031522	Water	03/15/22 11:25	03/17/22 16:00
60395394021	LEC-CMA-DUP01-031622	Water	03/16/22 10:55	03/17/22 16:00
60395394022	LEC-CMA-DUP02-031722	Water	03/17/22 10:55	03/17/22 16:00
60395394023	EB-031722	Water	03/17/22 13:00	03/17/22 16:00

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: LEC PERIMTER ASH POND WELLS CC

Pace Project No.: 60395394

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60395394001	MW-A-032622	EPA 200.7	JLH	10	PASI-K
		EPA 200.7	JLH	4	PASI-K
		EPA 6010	JLH	1	PASI-K
		EPA 6010	JLH	1	PASI-K
		EPA 200.8	JGP	3	PASI-K
		SM 2320B	KB	2	PASI-K
		SM 2540C	TNB	1	PASI-K
		SM 3500-Fe B#4	SK	1	PASI-K
		SM 4500-H+B	SK	1	PASI-K
		SM 4500-S-2 D	SK	1	PASI-K
		EPA 300.0	CRN2	3	PASI-K
		SM 5310C	MMS	1	PASI-I
		SM 5310C	ZM	1	PASI-I
		60395394002	MW-B-031622	EPA 200.7	JLH
EPA 200.7	JLH			4	PASI-K
EPA 6010	JLH			1	PASI-K
EPA 6010	JLH			1	PASI-K
EPA 200.8	JGP			3	PASI-K
SM 2320B	KB			2	PASI-K
SM 2540C	TNB			1	PASI-K
SM 3500-Fe B#4	SK			1	PASI-K
SM 4500-H+B	SK			1	PASI-K
SM 4500-S-2 D	SK			1	PASI-K
EPA 300.0	CRN2			3	PASI-K
SM 5310C	MMS			1	PASI-I
SM 5310C	ZM			1	PASI-I
60395394003	MW-C-031722			EPA 200.7	JLH
		EPA 200.7	JLH	4	PASI-K
		EPA 6010	JLH	1	PASI-K
		EPA 6010	JLH	1	PASI-K
		EPA 200.8	JGP	3	PASI-K
		SM 2320B	KB	2	PASI-K
		SM 2540C	TNB	1	PASI-K
		SM 3500-Fe B#4	SK	1	PASI-K
		SM 4500-H+B	SK	1	PASI-K
		SM 4500-S-2 D	SK	1	PASI-K
		EPA 300.0	CRN2	3	PASI-K

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SAMPLE ANALYTE COUNT

Project: LEC PERIMTER ASH POND WELLS CC

Pace Project No.: 60395394

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60395394004	MW-D-031722	SM 5310C	MMS	1	PASI-I
		SM 5310C	ZM	1	PASI-I
		EPA 200.7	JLH	10	PASI-K
		EPA 200.7	JLH	4	PASI-K
		EPA 6010	JLH	1	PASI-K
		EPA 6010	JLH	1	PASI-K
		EPA 200.8	JGP	3	PASI-K
		SM 2320B	KB	2	PASI-K
		SM 2540C	TNB	1	PASI-K
		SM 3500-Fe B#4	SK	1	PASI-K
		SM 4500-H+B	SK	1	PASI-K
		SM 4500-S-2 D	SK	1	PASI-K
		60395394005	MW-G-031622	EPA 300.0	CRN2
SM 5310C	MMS			1	PASI-I
SM 5310C	ZM			1	PASI-I
EPA 200.7	JLH			10	PASI-K
EPA 200.7	JLH			4	PASI-K
EPA 6010	JLH			1	PASI-K
EPA 6010	JLH			1	PASI-K
EPA 200.8	JGP			3	PASI-K
SM 2320B	KB			2	PASI-K
SM 2540C	TNB			1	PASI-K
SM 3500-Fe B#4	SK			1	PASI-K
SM 4500-H+B	SK			1	PASI-K
SM 4500-S-2 D	SK			1	PASI-K
60395394006	MW-M-031722	EPA 300.0	CRN2	3	PASI-K
		SM 5310C	MMS	1	PASI-I
		SM 5310C	ZM	1	PASI-I
		EPA 200.7	JLH	10	PASI-K
		EPA 200.7	JLH	4	PASI-K
		EPA 6010	JLH	1	PASI-K
		EPA 6010	JLH	1	PASI-K
		EPA 200.8	JGP	3	PASI-K
		SM 2320B	KB	2	PASI-K
		SM 2540C	TNB	1	PASI-K
		SM 3500-Fe B#4	SK	1	PASI-K
		SM 4500-H+B	SK	1	PASI-K

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: LEC PERIMTER ASH POND WELLS CC

Pace Project No.: 60395394

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60395394007	MW-N-031622	SM 4500-S-2 D	SK	1	PASI-K
		EPA 300.0	CRN2	3	PASI-K
		SM 5310C	MMS	1	PASI-I
		SM 5310C	ZM	1	PASI-I
		EPA 200.7	JLH	10	PASI-K
		EPA 200.7	JLH	4	PASI-K
		EPA 6010	JLH	1	PASI-K
		EPA 6010	JLH	1	PASI-K
		EPA 200.8	JGP	3	PASI-K
		SM 2320B	KB	2	PASI-K
		SM 2540C	TNB	1	PASI-K
		SM 3500-Fe B#4	SK	1	PASI-K
		SM 4500-H+B	SK	1	PASI-K
		SM 4500-S-2 D	SK	1	PASI-K
		60395394008	MW-O-031622	EPA 300.0	CRN2
SM 5310C	MMS			1	PASI-I
SM 5310C	ZM			1	PASI-I
EPA 200.7	JLH			10	PASI-K
EPA 200.7	JLH			4	PASI-K
EPA 6010	MA1			1	PASI-K
EPA 6010	MA1			1	PASI-K
EPA 200.8	JGP			3	PASI-K
SM 2320B	KB			2	PASI-K
SM 2540C	TNB			1	PASI-K
SM 3500-Fe B#4	SK			1	PASI-K
SM 4500-H+B	SK			1	PASI-K
SM 4500-S-2 D	SK			1	PASI-K
EPA 300.0	CRN2			3	PASI-K
60395394009	MW-P-031722			SM 5310C	MMS
		SM 5310C	MMS	1	PASI-I
		EPA 200.7	JLH	10	PASI-K
		EPA 200.7	JLH	4	PASI-K
		EPA 6010	JLH	1	PASI-K
		EPA 6010	JLH	1	PASI-K
		EPA 200.8	JGP	3	PASI-K
		SM 2320B	KB	2	PASI-K
		SM 2540C	TNB	1	PASI-K

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: LEC PERIMTER ASH POND WELLS CC

Pace Project No.: 60395394

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60395394010	MW-101-031622	SM 3500-Fe B#4	SK	1	PASI-K
		SM 4500-H+B	SK	1	PASI-K
		SM 4500-S-2 D	SK	1	PASI-K
		EPA 300.0	CRN2	3	PASI-K
		SM 5310C	MMS	1	PASI-I
		SM 5310C	ZM	1	PASI-I
		EPA 200.7	JLH	10	PASI-K
		EPA 200.7	JLH	4	PASI-K
		EPA 6010	JLH	1	PASI-K
		EPA 6010	JLH	1	PASI-K
		EPA 200.8	JGP	3	PASI-K
		SM 2320B	KB	2	PASI-K
		SM 2540C	TNB	1	PASI-K
		SM 3500-Fe B#4	SK	1	PASI-K
60395394011	MW-102-031622	SM 4500-H+B	SK	1	PASI-K
		SM 4500-S-2 D	SK	1	PASI-K
		EPA 300.0	CRN2	3	PASI-K
		SM 5310C	MMS	1	PASI-I
		SM 5310C	ZM	1	PASI-I
		EPA 200.7	JLH	10	PASI-K
		EPA 200.7	JLH	4	PASI-K
		EPA 6010	JLH	1	PASI-K
		EPA 6010	JLH	1	PASI-K
		EPA 200.8	JGP	3	PASI-K
		SM 2320B	KB	2	PASI-K
		SM 2540C	TNB	1	PASI-K
		SM 3500-Fe B#4	SK	1	PASI-K
		SM 4500-H+B	SK	1	PASI-K
60395394012	MW-103-031522	SM 4500-S-2 D	SK	1	PASI-K
		EPA 300.0	CRN2	3	PASI-K
		SM 5310C	MMS	1	PASI-I
		SM 5310C	ZM	1	PASI-I
		EPA 200.7	JLH	10	PASI-K
		EPA 200.7	JLH	4	PASI-K
		EPA 6010	MA1	1	PASI-K
		EPA 6010	MA1	1	PASI-K
		EPA 200.8	JGP	3	PASI-K

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SAMPLE ANALYTE COUNT

Project: LEC PERIMTER ASH POND WELLS CC

Pace Project No.: 60395394

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60395394013	MW-104-031722	SM 2320B	KB	2	PASI-K
		SM 2540C	TNB	1	PASI-K
		SM 3500-Fe B#4	SK	1	PASI-K
		SM 4500-H+B	SK	1	PASI-K
		SM 4500-S-2 D	SK	1	PASI-K
		EPA 300.0	CRN2	3	PASI-K
		SM 5310C	MMS	1	PASI-I
		SM 5310C	ZM	1	PASI-I
		EPA 200.7	JLH	10	PASI-K
		EPA 200.7	JLH	4	PASI-K
		EPA 6010	MA1	1	PASI-K
		EPA 6010	MA1	1	PASI-K
		EPA 200.8	JGP	3	PASI-K
		SM 2320B	KB	2	PASI-K
		SM 2540C	TNB	1	PASI-K
		SM 3500-Fe B#4	SK	1	PASI-K
		SM 4500-H+B	SK	1	PASI-K
		SM 4500-S-2 D	SK	1	PASI-K
		EPA 300.0	CRN2	3	PASI-K
		60395394014	MW-106-031622	SM 5310C	MMS
SM 5310C	ZM			1	PASI-I
EPA 200.7	JLH			10	PASI-K
EPA 200.7	JLH			4	PASI-K
EPA 6010	JLH			1	PASI-K
EPA 6010	JLH			1	PASI-K
EPA 200.8	JGP			3	PASI-K
SM 2320B	KB			2	PASI-K
SM 2540C	TNB			1	PASI-K
SM 3500-Fe B#4	SK			1	PASI-K
SM 4500-H+B	SK			1	PASI-K
SM 4500-S-2 D	SK			1	PASI-K
60395394015	MW-107-031622	EPA 300.0	CRN2	3	PASI-K
		SM 5310C	MMS	1	PASI-I
		SM 5310C	ZM	1	PASI-I
		EPA 200.7	JLH	10	PASI-K
		EPA 200.7	JLH	4	PASI-K
		EPA 6010	JLH	1	PASI-K

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SAMPLE ANALYTE COUNT

Project: LEC PERIMTER ASH POND WELLS CC

Pace Project No.: 60395394

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 6010	JLH	1	PASI-K
		EPA 200.8	JGP	3	PASI-K
		SM 2320B	KB	2	PASI-K
		SM 2540C	TNB	1	PASI-K
		SM 3500-Fe B#4	SK	1	PASI-K
		SM 4500-H+B	SK	1	PASI-K
		SM 4500-S-2 D	SK	1	PASI-K
		EPA 300.0	CRN2	3	PASI-K
		SM 5310C	MMS	1	PASI-I
		SM 5310C	ZM	1	PASI-I
60395394016	MW-108-031622	EPA 200.7	JLH	10	PASI-K
		EPA 200.7	JLH	4	PASI-K
		EPA 6010	JLH	1	PASI-K
		EPA 6010	JLH	1	PASI-K
		EPA 200.8	JGP	3	PASI-K
		SM 2320B	KB	2	PASI-K
		SM 2540C	TNB	1	PASI-K
		SM 3500-Fe B#4	SK	1	PASI-K
		SM 4500-H+B	SK	1	PASI-K
		SM 4500-S-2 D	SK	1	PASI-K
		EPA 300.0	CRN2	3	PASI-K
		SM 5310C	MMS	1	PASI-I
		SM 5310C	ZM	1	PASI-I
60395394017	MW-109-031622	EPA 200.7	JLH	10	PASI-K
		EPA 200.7	JLH	4	PASI-K
		EPA 6010	MA1	1	PASI-K
		EPA 6010	MA1	1	PASI-K
		EPA 200.8	JGP	3	PASI-K
		SM 2320B	KB	2	PASI-K
		SM 2540C	TNB	1	PASI-K
		SM 3500-Fe B#4	SK	1	PASI-K
		SM 4500-H+B	SK	1	PASI-K
		SM 4500-S-2 D	SK	1	PASI-K
		EPA 300.0	CRN2	3	PASI-K
		SM 5310C	MMS	1	PASI-I
		SM 5310C	ZM	1	PASI-I
60395394018	MW-110-031622	EPA 200.7	JLH	10	PASI-K

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SAMPLE ANALYTE COUNT

Project: LEC PERIMTER ASH POND WELLS CC

Pace Project No.: 60395394

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 200.7	JLH	4	PASI-K
		EPA 6010	MA1	1	PASI-K
		EPA 6010	MA1	1	PASI-K
		EPA 200.8	JGP	3	PASI-K
		SM 2320B	KB	2	PASI-K
		SM 2540C	TNB	1	PASI-K
		SM 3500-Fe B#4	SK	1	PASI-K
		SM 4500-H+B	SK	1	PASI-K
		SM 4500-S-2 D	SK	1	PASI-K
		EPA 300.0	CRN2	3	PASI-K
		SM 5310C	MMS	1	PASI-I
		SM 5310C	ZM	1	PASI-I
60395394019	MW-112-031522	EPA 200.7	JLH	10	PASI-K
		EPA 200.7	JLH	4	PASI-K
		EPA 6010	JLH	1	PASI-K
		EPA 6010	JLH	1	PASI-K
		EPA 200.8	JGP	3	PASI-K
		SM 2320B	KB	2	PASI-K
		SM 2540C	TNB	1	PASI-K
		SM 3500-Fe B#4	SK	1	PASI-K
		SM 4500-H+B	SK	1	PASI-K
		SM 4500-S-2 D	SK	1	PASI-K
		EPA 300.0	CRN2	3	PASI-K
		SM 5310C	MMS	1	PASI-I
		SM 5310C	ZM	1	PASI-I
60395394020	MW-113-031522	EPA 200.7	JLH	10	PASI-K
		EPA 200.7	JLH	4	PASI-K
		EPA 6010	JLH	1	PASI-K
		EPA 6010	JLH	1	PASI-K
		EPA 200.8	JGP	3	PASI-K
		SM 2320B	KB	2	PASI-K
		SM 2540C	TNB	1	PASI-K
		SM 3500-Fe B#4	SK	1	PASI-K
		SM 4500-H+B	SK	1	PASI-K
		SM 4500-S-2 D	SK	1	PASI-K
		EPA 300.0	CRN2	3	PASI-K
		SM 5310C	MMS	1	PASI-I

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SAMPLE ANALYTE COUNT

Project: LEC PERIMTER ASH POND WELLS CC

Pace Project No.: 60395394

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60395394021	LEC-CMA-DUP01-031622	SM 5310C	ZM	1	PASI-I
		EPA 200.7	JLH	10	PASI-K
		EPA 200.7	JLH	4	PASI-K
		EPA 6010	JLH	1	PASI-K
		EPA 6010	JLH	1	PASI-K
		EPA 200.8	JGP	3	PASI-K
		SM 2320B	KB	2	PASI-K
		SM 2540C	TNB	1	PASI-K
		SM 3500-Fe B#4	SK	1	PASI-K
		SM 4500-H+B	SK	1	PASI-K
		SM 4500-S-2 D	SK	1	PASI-K
		EPA 300.0	CRN2	3	PASI-K
		SM 5310C	MMS	1	PASI-I
		SM 5310C	ZM	1	PASI-I
60395394022	LEC-CMA-DUP02-031722	EPA 200.7	JLH	10	PASI-K
		EPA 200.7	JLH	4	PASI-K
		EPA 6010	MA1	1	PASI-K
		EPA 6010	MA1	1	PASI-K
		EPA 200.8	JGP	3	PASI-K
		SM 2320B	KB	2	PASI-K
		SM 2540C	TNB	1	PASI-K
		SM 3500-Fe B#4	SK	1	PASI-K
		SM 4500-H+B	SK	1	PASI-K
		SM 4500-S-2 D	SK	1	PASI-K
		EPA 300.0	CRN2	3	PASI-K
		SM 5310C	MMS	1	PASI-I
		SM 5310C	ZM	1	PASI-I
		60395394023	EB-031722	EPA 200.7	JLH
EPA 200.7	JLH			4	PASI-K
EPA 6010	JLH			1	PASI-K
EPA 6010	JLH			1	PASI-K
EPA 200.8	JGP			3	PASI-K
SM 2320B	KB			2	PASI-K
SM 2540C	TNB			1	PASI-K
SM 3500-Fe B#4	SK			1	PASI-K
SM 4500-H+B	SK			1	PASI-K
SM 4500-S-2 D	SK			1	PASI-K

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SAMPLE ANALYTE COUNT

Project: LEC PERIMTER ASH POND WELLS CC

Pace Project No.: 60395394

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 300.0	CRN2	3	PASI-K
		SM 5310C	MMS	1	PASI-I
		SM 5310C	ZM	1	PASI-I

PASI-I = Pace Analytical Services - Indianapolis

PASI-K = Pace Analytical Services - Kansas City

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PROJECT NARRATIVE

Project: LEC PERIMTER ASH POND WELLS CC

Pace Project No.: 60395394

Method: EPA 200.7

Description: 200.7 Metals, Total

Client: Evergy Kansas Central, Inc.

Date: May 04, 2022

General Information:

23 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: 777648

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60395394001,60395394010

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

- MS (Lab ID: 3102795)
 - Calcium
- MSD (Lab ID: 3102794)
 - Calcium

QC Batch: 777650

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60395298001,60395398005

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

- MS (Lab ID: 3102799)
 - Calcium
 - Magnesium
 - Sodium
- MS (Lab ID: 3102801)
 - Sodium
- MSD (Lab ID: 3102800)

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PROJECT NARRATIVE

Project: LEC PERIMTER ASH POND WELLS CC

Pace Project No.: 60395394

Method: EPA 200.7

Description: 200.7 Metals, Total

Client: Evergy Kansas Central, Inc.

Date: May 04, 2022

QC Batch: 777650

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60395298001,60395398005

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

- Calcium
- Sodium

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC PERIMTER ASH POND WELLS CC

Pace Project No.: 60395394

Method: EPA 200.7

Description: 200.7 Metals, Dissolved

Client: Evergy Kansas Central, Inc.

Date: May 04, 2022

General Information:

23 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: LEC PERIMTER ASH POND WELLS CC

Pace Project No.: 60395394

Method: EPA 6010

Description: 6010 MET ICP

Client: Evergy Kansas Central, Inc.

Date: May 04, 2022

General Information:

23 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:

Analyte Comments:

QC Batch: 778305

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

- MW-101-031622 (Lab ID: 60395394010)
 - Lithium, Total Recoverable
- MW-107-031622 (Lab ID: 60395394015)
 - Lithium, Total Recoverable
- MW-112-031522 (Lab ID: 60395394019)
 - Lithium, Total Recoverable
- MW-B-031622 (Lab ID: 60395394002)
 - Lithium, Total Recoverable
- MW-C-031722 (Lab ID: 60395394003)
 - Lithium, Total Recoverable
- MW-D-031722 (Lab ID: 60395394004)
 - Lithium, Total Recoverable

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PROJECT NARRATIVE

Project: LEC PERIMTER ASH POND WELLS CC

Pace Project No.: 60395394

Method: EPA 6010

Description: 6010 MET ICP

Client: Evergy Kansas Central, Inc.

Date: May 04, 2022

Analyte Comments:

QC Batch: 778305

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

- MW-G-031622 (Lab ID: 60395394005)
 - Lithium, Total Recoverable
- MW-M-031722 (Lab ID: 60395394006)
 - Lithium, Total Recoverable
- MW-P-031722 (Lab ID: 60395394009)
 - Lithium, Total Recoverable

QC Batch: 778343

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

- LEC-CMA-DUP01-031622 (Lab ID: 60395394021)
 - Lithium, Total Recoverable

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PROJECT NARRATIVE

Project: LEC PERIMTER ASH POND WELLS CC

Pace Project No.: 60395394

Method: EPA 6010

Description: 6010 MET ICP, Dissolved

Client: Evergy Kansas Central, Inc.

Date: May 04, 2022

General Information:

23 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: 778390

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60395394002

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

- MS (Lab ID: 3105347)

- Lithium, Dissolved

Additional Comments:

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PROJECT NARRATIVE

Project: LEC PERIMTER ASH POND WELLS CC

Pace Project No.: 60395394

Method: EPA 200.8

Description: 200.8 MET ICPMS

Client: Evergy Kansas Central, Inc.

Date: May 04, 2022

General Information:

23 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: LEC PERIMTER ASH POND WELLS CC

Pace Project No.: 60395394

Method: SM 2320B

Description: 2320B Alkalinity

Client: Evergy Kansas Central, Inc.

Date: May 04, 2022

General Information:

23 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:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC PERIMTER ASH POND WELLS CC

Pace Project No.: 60395394

Method: SM 2540C

Description: 2540C Total Dissolved Solids

Client: Evergy Kansas Central, Inc.

Date: May 04, 2022

General Information:

23 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: 777122

D6: The precision between the sample and sample duplicate exceeded laboratory control limits.

- DUP (Lab ID: 3100963)
- Total Dissolved Solids

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC PERIMTER ASH POND WELLS CC

Pace Project No.: 60395394

Method: SM 3500-Fe B#4

Description: Iron, Ferrous

Client: Evergy Kansas Central, Inc.

Date: May 04, 2022

General Information:

23 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.

- EB-031722 (Lab ID: 60395394023)
- LEC-CMA-DUP01-031622 (Lab ID: 60395394021)
- LEC-CMA-DUP02-031722 (Lab ID: 60395394022)
- MW-101-031622 (Lab ID: 60395394010)
- MW-102-031622 (Lab ID: 60395394011)
- MW-103-031522 (Lab ID: 60395394012)
- MW-104-031722 (Lab ID: 60395394013)
- MW-106-031622 (Lab ID: 60395394014)
- MW-107-031622 (Lab ID: 60395394015)
- MW-108-031622 (Lab ID: 60395394016)
- MW-109-031622 (Lab ID: 60395394017)
- MW-110-031622 (Lab ID: 60395394018)
- MW-112-031522 (Lab ID: 60395394019)
- MW-113-031522 (Lab ID: 60395394020)
- MW-A-032622 (Lab ID: 60395394001)
- MW-B-031622 (Lab ID: 60395394002)
- MW-C-031722 (Lab ID: 60395394003)
- MW-D-031722 (Lab ID: 60395394004)
- MW-G-031622 (Lab ID: 60395394005)
- MW-M-031722 (Lab ID: 60395394006)
- MW-N-031622 (Lab ID: 60395394007)
- MW-O-031622 (Lab ID: 60395394008)
- MW-P-031722 (Lab ID: 60395394009)

Method Blank:

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

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits 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.

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PROJECT NARRATIVE

Project: LEC PERIMTER ASH POND WELLS CC
Pace Project No.: 60395394

Method: SM 3500-Fe B#4
Description: Iron, Ferrous
Client: Evergy Kansas Central, Inc.
Date: May 04, 2022

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC PERIMTER ASH POND WELLS CC

Pace Project No.: 60395394

Method: SM 4500-H+B

Description: 4500H+ pH, Electrometric

Client: Evergy Kansas Central, Inc.

Date: May 04, 2022

General Information:

23 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.

- EB-031722 (Lab ID: 60395394023)
- LEC-CMA-DUP01-031622 (Lab ID: 60395394021)
- LEC-CMA-DUP02-031722 (Lab ID: 60395394022)
- MW-101-031622 (Lab ID: 60395394010)
- MW-102-031622 (Lab ID: 60395394011)
- MW-103-031522 (Lab ID: 60395394012)
- MW-104-031722 (Lab ID: 60395394013)
- MW-106-031622 (Lab ID: 60395394014)
- MW-107-031622 (Lab ID: 60395394015)
- MW-108-031622 (Lab ID: 60395394016)
- MW-109-031622 (Lab ID: 60395394017)
- MW-110-031622 (Lab ID: 60395394018)
- MW-112-031522 (Lab ID: 60395394019)
- MW-113-031522 (Lab ID: 60395394020)
- MW-A-032622 (Lab ID: 60395394001)
- MW-B-031622 (Lab ID: 60395394002)
- MW-C-031722 (Lab ID: 60395394003)
- MW-D-031722 (Lab ID: 60395394004)
- MW-G-031622 (Lab ID: 60395394005)
- MW-M-031722 (Lab ID: 60395394006)
- MW-N-031622 (Lab ID: 60395394007)
- MW-O-031622 (Lab ID: 60395394008)
- MW-P-031722 (Lab ID: 60395394009)

Method Blank:

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

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits 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.

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC PERIMTER ASH POND WELLS CC

Pace Project No.: 60395394

Method: SM 4500-H+B

Description: 4500H+ pH, Electrometric

Client: Evergy Kansas Central, Inc.

Date: May 04, 2022

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC PERIMTER ASH POND WELLS CC

Pace Project No.: 60395394

Method: SM 4500-S-2 D

Description: 4500S2D Sulfide, Total

Client: Evergy Kansas Central, Inc.

Date: May 04, 2022

General Information:

23 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: 776933

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60395394012

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

- MS (Lab ID: 3100230)
 - Sulfide, Total
- MSD (Lab ID: 3100231)
 - Sulfide, Total

QC Batch: 776937

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60395337001

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

- MS (Lab ID: 3100238)
 - Sulfide, Total
- MSD (Lab ID: 3100239)
 - Sulfide, Total

QC Batch: 777331

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60395561001

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

- MS (Lab ID: 3101608)
 - Sulfide, Total
- MSD (Lab ID: 3101609)
 - Sulfide, Total

QC Batch: 777390

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60395532006

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

- MS (Lab ID: 3101777)

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PROJECT NARRATIVE

Project: LEC PERIMTER ASH POND WELLS CC

Pace Project No.: 60395394

Method: SM 4500-S-2 D

Description: 4500S2D Sulfide, Total

Client: Evergy Kansas Central, Inc.

Date: May 04, 2022

QC Batch: 777390

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60395532006

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

- Sulfide, Total
- MSD (Lab ID: 3101778)
- Sulfide, Total

Duplicate Sample:

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

QC Batch: 777331

D6: The precision between the sample and sample duplicate exceeded laboratory control limits.

- DUP (Lab ID: 3101611)
- Sulfide, Total

Additional Comments:

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PROJECT NARRATIVE

Project: LEC PERIMTER ASH POND WELLS CC

Pace Project No.: 60395394

Method: EPA 300.0

Description: 300.0 IC Anions 28 Days

Client: Evergy Kansas Central, Inc.

Date: May 04, 2022

General Information:

23 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: 777261

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60395394005,60395394014

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

- MS (Lab ID: 3101343)
 - Sulfate
- MS (Lab ID: 3101345)
 - Chloride
- MSD (Lab ID: 3101344)
 - Sulfate

QC Batch: 777597

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60395357004

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

- MS (Lab ID: 3102616)
 - Chloride
 - Fluoride
 - Sulfate
- MSD (Lab ID: 3102614)
 - Chloride
 - Fluoride
 - Sulfate

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: LEC PERIMTER ASH POND WELLS CC

Pace Project No.: 60395394

Method: EPA 300.0

Description: 300.0 IC Anions 28 Days

Client: Evergy Kansas Central, Inc.

Date: May 04, 2022

Analyte Comments:

QC Batch: 777261

E: Analyte concentration exceeded the calibration range. The reported result is estimated.

- MS (Lab ID: 3101343)
 - Chloride
- MSD (Lab ID: 3101344)
 - Chloride

QC Batch: 777597

E: Analyte concentration exceeded the calibration range. The reported result is estimated.

- MS (Lab ID: 3102616)
 - Sulfate
- MSD (Lab ID: 3102614)
 - Sulfate

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PROJECT NARRATIVE

Project: LEC PERIMTER ASH POND WELLS CC

Pace Project No.: 60395394

Method: SM 5310C

Description: 5310C TOC

Client: Evergy Kansas Central, Inc.

Date: May 04, 2022

General Information:

23 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:

Analyte Comments:

QC Batch: 669283

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

- MW-106-031622 (Lab ID: 60395394014)
 - Total Organic Carbon

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC PERIMTER ASH POND WELLS CC

Pace Project No.: 60395394

Method: SM 5310C

Description: 5310C Dissolved Organic Carbon

Client: Evergy Kansas Central, Inc.

Date: May 04, 2022

General Information:

23 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.

C4: Sample container did not meet EPA or method requirements.

- EB-031722 (Lab ID: 60395394023)
- LEC-CMA-DUP01-031622 (Lab ID: 60395394021)
- LEC-CMA-DUP02-031722 (Lab ID: 60395394022)
- MW-101-031622 (Lab ID: 60395394010)
- MW-102-031622 (Lab ID: 60395394011)
- MW-103-031522 (Lab ID: 60395394012)
- MW-104-031722 (Lab ID: 60395394013)
- MW-106-031622 (Lab ID: 60395394014)
- MW-107-031622 (Lab ID: 60395394015)
- MW-108-031622 (Lab ID: 60395394016)
- MW-109-031622 (Lab ID: 60395394017)
- MW-110-031622 (Lab ID: 60395394018)
- MW-112-031522 (Lab ID: 60395394019)
- MW-113-031522 (Lab ID: 60395394020)
- MW-A-032622 (Lab ID: 60395394001)
- MW-B-031622 (Lab ID: 60395394002)
- MW-C-031722 (Lab ID: 60395394003)
- MW-D-031722 (Lab ID: 60395394004)
- MW-G-031622 (Lab ID: 60395394005)
- MW-M-031722 (Lab ID: 60395394006)
- MW-N-031622 (Lab ID: 60395394007)
- MW-O-031622 (Lab ID: 60395394008)
- MW-P-031722 (Lab ID: 60395394009)

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.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LEC PERIMTER ASH POND WELLS CC

Pace Project No.: 60395394

Sample: MW-A-032622	Lab ID: 60395394001	Collected: 03/16/22 10:45	Received: 03/17/22 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	0.11	mg/L	0.0050	1	03/25/22 10:07	03/27/22 14:33	7440-39-3	
Boron, Total Recoverable	0.57	mg/L	0.10	1	03/25/22 10:07	03/27/22 14:33	7440-42-8	
Calcium, Total Recoverable	156	mg/L	0.40	2	03/25/22 10:07	03/28/22 20:49	7440-70-2	M1
Iron, Total Recoverable	8.7	mg/L	0.050	1	03/25/22 10:07	03/27/22 14:33	7439-89-6	
Lead, Total Recoverable	<0.010	mg/L	0.010	1	03/25/22 10:07	03/27/22 14:33	7439-92-1	
Magnesium, Total Recoverable	25.8	mg/L	0.050	1	03/25/22 10:07	03/27/22 14:33	7439-95-4	
Manganese, Total Recoverable	1.6	mg/L	0.0050	1	03/25/22 10:07	03/27/22 14:33	7439-96-5	
Potassium, Total Recoverable	6.2	mg/L	0.50	1	03/25/22 10:07	03/27/22 14:33	7440-09-7	
Sodium, Total Recoverable	40.8	mg/L	0.50	1	03/25/22 10:07	03/27/22 14:33	7440-23-5	
Total Hardness by 2340B, Total Recoverable	496	mg/L	1.0	2	03/25/22 10:07	03/28/22 20:49		
200.7 Metals, Dissolved								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Arsenic, Dissolved	<0.010	mg/L	0.010	1	03/28/22 09:40	03/28/22 18:39	7440-38-2	
Iron, Dissolved	4.2	mg/L	0.050	1	03/28/22 09:40	03/28/22 18:39	7439-89-6	
Manganese, Dissolved	1.1	mg/L	0.0050	1	03/28/22 09:40	03/28/22 18:39	7439-96-5	
Molybdenum, Dissolved	0.022	mg/L	0.020	1	03/28/22 09:40	03/28/22 18:39	7439-98-7	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Total Recoverable	0.014	mg/L	0.010	1	04/13/22 09:01	04/13/22 15:52	7439-93-2	
6010 MET ICP, Dissolved								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Dissolved	<0.020	mg/L	0.020	2	03/29/22 13:22	03/31/22 17:20	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	0.0090	mg/L	0.0010	1	03/28/22 15:20	03/29/22 14:26	7440-38-2	
Cobalt, Total Recoverable	<0.0010	mg/L	0.0010	1	03/28/22 15:20	03/29/22 14:26	7440-48-4	
Molybdenum, Total Recoverable	0.024	mg/L	0.0010	1	03/28/22 15:20	03/29/22 14:26	7439-98-7	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Kansas City								
Alkalinity,Bicarbonate (CaCO3)	391	mg/L	20.0	1		03/24/22 23:16		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	20.0	1		03/24/22 23:16		
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Kansas City								
Total Dissolved Solids	727	mg/L	10.0	1		03/23/22 17:15		
Iron, Ferrous								
Analytical Method: SM 3500-Fe B#4								
Pace Analytical Services - Kansas City								
Iron, Ferrous	<0.20	mg/L	0.20	1		03/28/22 09:54	15438-31-0	H6

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LEC PERIMTER ASH POND WELLS CC

Pace Project No.: 60395394

Sample: MW-A-032622	Lab ID: 60395394001	Collected: 03/16/22 10:45	Received: 03/17/22 16:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
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		03/24/22 15:03		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		03/22/22 16:35	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City							
Chloride	41.8	mg/L	20.0	20		03/25/22 20:58	16887-00-6	
Fluoride	<0.20	mg/L	0.20	1		03/25/22 20:17	16984-48-8	
Sulfate	140	mg/L	20.0	20		03/25/22 20:58	14808-79-8	
5310C TOC	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Total Organic Carbon	1.8	mg/L	1.0	1		04/01/22 17:55	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	2.1	mg/L	1.0	1		04/07/22 18:50		C4

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ANALYTICAL RESULTS

Project: LEC PERIMTER ASH POND WELLS CC

Pace Project No.: 60395394

Sample: MW-B-031622	Lab ID: 60395394002	Collected: 03/16/22 12:30	Received: 03/17/22 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	0.27	mg/L	0.0050	1	03/25/22 10:07	03/27/22 14:44	7440-39-3	
Boron, Total Recoverable	<0.10	mg/L	0.10	1	03/25/22 10:07	03/27/22 14:44	7440-42-8	
Calcium, Total Recoverable	177	mg/L	0.60	3	03/25/22 10:07	03/28/22 20:56	7440-70-2	
Iron, Total Recoverable	<0.050	mg/L	0.050	1	03/25/22 10:07	03/27/22 14:44	7439-89-6	
Lead, Total Recoverable	<0.010	mg/L	0.010	1	03/25/22 10:07	03/27/22 14:44	7439-92-1	
Magnesium, Total Recoverable	20.7	mg/L	0.050	1	03/25/22 10:07	03/27/22 14:44	7439-95-4	
Manganese, Total Recoverable	0.73	mg/L	0.0050	1	03/25/22 10:07	03/27/22 14:44	7439-96-5	
Potassium, Total Recoverable	8.5	mg/L	0.50	1	03/25/22 10:07	03/27/22 14:44	7440-09-7	
Sodium, Total Recoverable	5.7	mg/L	0.50	1	03/25/22 10:07	03/27/22 14:44	7440-23-5	
Total Hardness by 2340B, Total Recoverable	528	mg/L	1.5	3	03/25/22 10:07	03/28/22 20:56		
200.7 Metals, Dissolved								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Arsenic, Dissolved	<0.010	mg/L	0.010	1	03/28/22 09:40	03/28/22 18:46	7440-38-2	
Iron, Dissolved	<0.050	mg/L	0.050	1	03/28/22 09:40	03/28/22 18:46	7439-89-6	
Manganese, Dissolved	0.20	mg/L	0.0050	1	03/28/22 09:40	03/28/22 18:46	7439-96-5	
Molybdenum, Dissolved	0.024	mg/L	0.020	1	03/28/22 09:40	03/28/22 18:46	7439-98-7	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Total Recoverable	<0.030	mg/L	0.030	3	03/29/22 09:45	03/31/22 17:51	7439-93-2	D3
6010 MET ICP, Dissolved								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Dissolved	<0.020	mg/L	0.020	2	03/29/22 13:22	03/31/22 17:27	7439-93-2	M1
200.8 MET ICPMS								
Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Pace Analytical Services - Kansas City								
Arsenic, Total Recoverable	0.0054	mg/L	0.0010	1	03/28/22 15:20	03/29/22 14:37	7440-38-2	
Cobalt, Total Recoverable	0.0060	mg/L	0.0010	1	03/28/22 15:20	03/29/22 14:37	7440-48-4	
Molybdenum, Total Recoverable	0.0078	mg/L	0.0010	1	03/28/22 15:20	03/29/22 14:37	7439-98-7	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Kansas City								
Alkalinity,Bicarbonate (CaCO3)	448	mg/L	20.0	1		03/25/22 17:07		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	20.0	1		03/25/22 17:07		
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Kansas City								
Total Dissolved Solids	667	mg/L	10.0	1		03/23/22 17:15		
Iron, Ferrous								
Analytical Method: SM 3500-Fe B#4								
Pace Analytical Services - Kansas City								
Iron, Ferrous	<0.20	mg/L	0.20	1		03/28/22 10:22	15438-31-0	H6

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ANALYTICAL RESULTS

Project: LEC PERIMTER ASH POND WELLS CC

Pace Project No.: 60395394

Sample: MW-B-031622	Lab ID: 60395394002	Collected: 03/16/22 12:30	Received: 03/17/22 16:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
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		03/24/22 15:15		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		03/22/22 16:35	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City							
Chloride	12.9	mg/L	1.0	1		03/25/22 21:12	16887-00-6	
Fluoride	0.28	mg/L	0.20	1		03/25/22 21:12	16984-48-8	
Sulfate	83.7	mg/L	20.0	20		03/25/22 21:26	14808-79-8	
5310C TOC	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Total Organic Carbon	1.4	mg/L	1.0	1		04/01/22 18:06	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	2.7	mg/L	1.0	1		04/07/22 20:52		C4

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ANALYTICAL RESULTS

Project: LEC PERIMTER ASH POND WELLS CC

Pace Project No.: 60395394

Sample: MW-C-031722	Lab ID: 60395394003	Collected: 03/17/22 12:15	Received: 03/17/22 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	0.10	mg/L	0.0050	1	03/25/22 10:07	03/27/22 14:46	7440-39-3	
Boron, Total Recoverable	0.28	mg/L	0.10	1	03/25/22 10:07	03/27/22 14:46	7440-42-8	
Calcium, Total Recoverable	137	mg/L	0.40	2	03/25/22 10:07	03/28/22 20:58	7440-70-2	
Iron, Total Recoverable	0.21	mg/L	0.050	1	03/25/22 10:07	03/27/22 14:46	7439-89-6	
Lead, Total Recoverable	<0.010	mg/L	0.010	1	03/25/22 10:07	03/27/22 14:46	7439-92-1	
Magnesium, Total Recoverable	17.2	mg/L	0.050	1	03/25/22 10:07	03/27/22 14:46	7439-95-4	
Manganese, Total Recoverable	0.18	mg/L	0.0050	1	03/25/22 10:07	03/27/22 14:46	7439-96-5	
Potassium, Total Recoverable	5.6	mg/L	0.50	1	03/25/22 10:07	03/27/22 14:46	7440-09-7	
Sodium, Total Recoverable	30.3	mg/L	0.50	1	03/25/22 10:07	03/27/22 14:46	7440-23-5	
Total Hardness by 2340B, Total Recoverable	414	mg/L	1.0	2	03/25/22 10:07	03/28/22 20:58		
200.7 Metals, Dissolved								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Arsenic, Dissolved	<0.010	mg/L	0.010	1	03/28/22 09:40	03/28/22 18:48	7440-38-2	
Iron, Dissolved	<0.050	mg/L	0.050	1	03/28/22 09:40	03/28/22 18:48	7439-89-6	
Manganese, Dissolved	0.013	mg/L	0.0050	1	03/28/22 09:40	03/28/22 18:48	7439-96-5	
Molybdenum, Dissolved	<0.020	mg/L	0.020	1	03/28/22 09:40	03/28/22 18:48	7439-98-7	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Total Recoverable	<0.030	mg/L	0.030	3	03/29/22 09:45	03/31/22 17:54	7439-93-2	D3
6010 MET ICP, Dissolved								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Dissolved	<0.020	mg/L	0.020	2	03/29/22 13:22	03/31/22 17:29	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	0.0035	mg/L	0.0010	1	03/28/22 15:20	03/29/22 14:40	7440-38-2	
Cobalt, Total Recoverable	0.0011	mg/L	0.0010	1	03/28/22 15:20	03/29/22 14:40	7440-48-4	
Molybdenum, Total Recoverable	0.011	mg/L	0.0010	1	03/28/22 15:20	03/29/22 14:40	7439-98-7	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Kansas City								
Alkalinity,Bicarbonate (CaCO3)	363	mg/L	20.0	1		03/26/22 08:28		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	20.0	1		03/26/22 08:28		
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Kansas City								
Total Dissolved Solids	665	mg/L	10.0	1		03/24/22 18:31		
Iron, Ferrous								
Analytical Method: SM 3500-Fe B#4								
Pace Analytical Services - Kansas City								
Iron, Ferrous	<0.20	mg/L	0.20	1		03/30/22 17:08	15438-31-0	H6

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ANALYTICAL RESULTS

Project: LEC PERIMTER ASH POND WELLS CC

Pace Project No.: 60395394

Sample: MW-C-031722	Lab ID: 60395394003	Collected: 03/17/22 12:15	Received: 03/17/22 16:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
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		03/28/22 14:11		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		03/24/22 11:43	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City							
Chloride	28.7	mg/L	2.0	2		03/26/22 15:26	16887-00-6	
Fluoride	<0.20	mg/L	0.20	1		03/25/22 21:40	16984-48-8	
Sulfate	96.9	mg/L	20.0	20		03/25/22 21:54	14808-79-8	
5310C TOC	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Total Organic Carbon	1.3	mg/L	1.0	1		04/01/22 18:37	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	1.8	mg/L	1.0	1		04/08/22 02:16		C4

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ANALYTICAL RESULTS

Project: LEC PERIMTER ASH POND WELLS CC

Pace Project No.: 60395394

Sample: MW-D-031722	Lab ID: 60395394004	Collected: 03/17/22 09:10	Received: 03/17/22 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	0.23	mg/L	0.0050	1	03/25/22 10:07	03/27/22 14:49	7440-39-3	
Boron, Total Recoverable	0.43	mg/L	0.10	1	03/25/22 10:07	03/27/22 14:49	7440-42-8	
Calcium, Total Recoverable	201	mg/L	0.60	3	03/25/22 10:07	03/28/22 21:01	7440-70-2	
Iron, Total Recoverable	20.1	mg/L	0.050	1	03/25/22 10:07	03/27/22 14:49	7439-89-6	
Lead, Total Recoverable	<0.010	mg/L	0.010	1	03/25/22 10:07	03/27/22 14:49	7439-92-1	
Magnesium, Total Recoverable	34.4	mg/L	0.050	1	03/25/22 10:07	03/27/22 14:49	7439-95-4	
Manganese, Total Recoverable	4.3	mg/L	0.0050	1	03/25/22 10:07	03/27/22 14:49	7439-96-5	
Potassium, Total Recoverable	6.8	mg/L	0.50	1	03/25/22 10:07	03/27/22 14:49	7440-09-7	
Sodium, Total Recoverable	24.0	mg/L	0.50	1	03/25/22 10:07	03/27/22 14:49	7440-23-5	
Total Hardness by 2340B, Total Recoverable	644	mg/L	1.5	3	03/25/22 10:07	03/28/22 21:01		
200.7 Metals, Dissolved								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Arsenic, Dissolved	<0.010	mg/L	0.010	1	03/28/22 09:40	03/28/22 18:50	7440-38-2	
Iron, Dissolved	16.0	mg/L	0.050	1	03/28/22 09:40	03/28/22 18:50	7439-89-6	
Manganese, Dissolved	3.8	mg/L	0.0050	1	03/28/22 09:40	03/28/22 18:50	7439-96-5	
Molybdenum, Dissolved	<0.020	mg/L	0.020	1	03/28/22 09:40	03/28/22 18:50	7439-98-7	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Total Recoverable	<0.030	mg/L	0.030	3	03/29/22 09:45	03/31/22 17:56	7439-93-2	D3
6010 MET ICP, Dissolved								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Dissolved	<0.030	mg/L	0.030	3	03/29/22 13:22	03/31/22 17:32	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	0.0091	mg/L	0.0010	1	03/28/22 15:20	03/29/22 14:43	7440-38-2	
Cobalt, Total Recoverable	<0.0010	mg/L	0.0010	1	03/28/22 15:20	03/29/22 14:43	7440-48-4	
Molybdenum, Total Recoverable	<0.0010	mg/L	0.0010	1	03/28/22 15:20	03/29/22 14:43	7439-98-7	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Kansas City								
Alkalinity,Bicarbonate (CaCO3)	488	mg/L	20.0	1		03/26/22 08:36		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	20.0	1		03/26/22 08:36		
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Kansas City								
Total Dissolved Solids	547	mg/L	10.0	1		03/24/22 18:31		
Iron, Ferrous								
Analytical Method: SM 3500-Fe B#4								
Pace Analytical Services - Kansas City								
Iron, Ferrous	0.42	mg/L	0.20	1		03/28/22 10:32	15438-31-0	H6

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ANALYTICAL RESULTS

Project: LEC PERIMTER ASH POND WELLS CC

Pace Project No.: 60395394

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Sample: MW-D-031722 Lab ID: 60395394004 Collected: 03/17/22 09:10 Received: 03/17/22 16:00 Matrix: Water								
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		03/25/22 13:11		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		03/24/22 11:43	18496-25-8	
300.0 IC Anions 28 Days Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City								
Chloride	67.4	mg/L	20.0	20		03/25/22 22:21	16887-00-6	
Fluoride	<0.20	mg/L	0.20	1		03/25/22 22:08	16984-48-8	
Sulfate	132	mg/L	20.0	20		03/25/22 22:21	14808-79-8	
5310C TOC Analytical Method: SM 5310C Pace Analytical Services - Indianapolis								
Total Organic Carbon	6.3	mg/L	1.0	1		04/01/22 18:49	7440-44-0	
5310C Dissolved Organic Carbon Analytical Method: SM 5310C Pace Analytical Services - Indianapolis								
Dissolved Organic Carbon	5.5	mg/L	1.0	1		04/08/22 01:05		C4

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ANALYTICAL RESULTS

Project: LEC PERIMTER ASH POND WELLS CC

Pace Project No.: 60395394

Sample: MW-G-031622	Lab ID: 60395394005	Collected: 03/16/22 09:10	Received: 03/17/22 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	0.040	mg/L	0.0050	1	03/25/22 10:07	03/27/22 14:51	7440-39-3	
Boron, Total Recoverable	1.8	mg/L	0.10	1	03/25/22 10:07	03/27/22 14:51	7440-42-8	
Calcium, Total Recoverable	187	mg/L	0.60	3	03/25/22 10:07	03/28/22 21:03	7440-70-2	
Iron, Total Recoverable	4.2	mg/L	0.050	1	03/25/22 10:07	03/27/22 14:51	7439-89-6	
Lead, Total Recoverable	<0.010	mg/L	0.010	1	03/25/22 10:07	03/27/22 14:51	7439-92-1	
Magnesium, Total Recoverable	27.5	mg/L	0.050	1	03/25/22 10:07	03/27/22 14:51	7439-95-4	
Manganese, Total Recoverable	0.71	mg/L	0.0050	1	03/25/22 10:07	03/27/22 14:51	7439-96-5	
Potassium, Total Recoverable	8.2	mg/L	0.50	1	03/25/22 10:07	03/27/22 14:51	7440-09-7	
Sodium, Total Recoverable	84.8	mg/L	0.50	1	03/25/22 10:07	03/27/22 14:51	7440-23-5	
Total Hardness by 2340B, Total Recoverable	580	mg/L	1.5	3	03/25/22 10:07	03/28/22 21:03		
200.7 Metals, Dissolved								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Arsenic, Dissolved	0.017	mg/L	0.010	1	03/28/22 09:40	03/28/22 18:53	7440-38-2	
Iron, Dissolved	3.5	mg/L	0.050	1	03/28/22 09:40	03/28/22 18:53	7439-89-6	
Manganese, Dissolved	0.65	mg/L	0.0050	1	03/28/22 09:40	03/28/22 18:53	7439-96-5	
Molybdenum, Dissolved	<0.020	mg/L	0.020	1	03/28/22 09:40	03/28/22 18:53	7439-98-7	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Total Recoverable	<0.030	mg/L	0.030	3	03/29/22 09:45	03/31/22 17:58	7439-93-2	D3
6010 MET ICP, Dissolved								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Dissolved	<0.030	mg/L	0.030	3	03/29/22 13:22	03/31/22 17:34	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	0.023	mg/L	0.0010	1	03/28/22 15:20	03/29/22 14:45	7440-38-2	
Cobalt, Total Recoverable	0.0026	mg/L	0.0010	1	03/28/22 15:20	03/29/22 14:45	7440-48-4	
Molybdenum, Total Recoverable	0.0051	mg/L	0.0010	1	03/28/22 15:20	03/29/22 14:45	7439-98-7	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Kansas City								
Alkalinity,Bicarbonate (CaCO3)	320	mg/L	20.0	1		03/26/22 08:43		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	20.0	1		03/26/22 08:43		
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Kansas City								
Total Dissolved Solids	1010	mg/L	13.3	1		03/23/22 17:15		
Iron, Ferrous								
Analytical Method: SM 3500-Fe B#4								
Pace Analytical Services - Kansas City								
Iron, Ferrous	<0.20	mg/L	0.20	1		03/28/22 09:51	15438-31-0	H6

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ANALYTICAL RESULTS

Project: LEC PERIMTER ASH POND WELLS CC

Pace Project No.: 60395394

Sample: MW-G-031622	Lab ID: 60395394005	Collected: 03/16/22 09:10	Received: 03/17/22 16:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
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		03/24/22 14:58		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		03/22/22 16:36	18496-25-8	
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0								
Pace Analytical Services - Kansas City								
Chloride	18.4	mg/L	1.0	1		03/24/22 16:06	16887-00-6	
Fluoride	<0.20	mg/L	0.20	1		03/24/22 16:06	16984-48-8	
Sulfate	402	mg/L	50.0	50		03/25/22 05:01	14808-79-8	M1
5310C TOC								
Analytical Method: SM 5310C								
Pace Analytical Services - Indianapolis								
Total Organic Carbon	2.5	mg/L	1.0	1		04/01/22 18:59	7440-44-0	
5310C Dissolved Organic Carbon								
Analytical Method: SM 5310C								
Pace Analytical Services - Indianapolis								
Dissolved Organic Carbon	4.5	mg/L	1.0	1		04/07/22 18:30		C4

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ANALYTICAL RESULTS

Project: LEC PERIMTER ASH POND WELLS CC

Pace Project No.: 60395394

Sample: MW-M-031722	Lab ID: 60395394006	Collected: 03/17/22 10:35	Received: 03/17/22 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	0.17	mg/L	0.0050	1	03/25/22 10:07	03/27/22 14:53	7440-39-3	
Boron, Total Recoverable	0.28	mg/L	0.10	1	03/25/22 10:07	03/27/22 14:53	7440-42-8	
Calcium, Total Recoverable	149	mg/L	0.40	2	03/25/22 10:07	03/28/22 21:05	7440-70-2	
Iron, Total Recoverable	0.36	mg/L	0.050	1	03/25/22 10:07	03/27/22 14:53	7439-89-6	
Lead, Total Recoverable	<0.010	mg/L	0.010	1	03/25/22 10:07	03/27/22 14:53	7439-92-1	
Magnesium, Total Recoverable	16.0	mg/L	0.050	1	03/25/22 10:07	03/27/22 14:53	7439-95-4	
Manganese, Total Recoverable	0.43	mg/L	0.0050	1	03/25/22 10:07	03/27/22 14:53	7439-96-5	
Potassium, Total Recoverable	5.7	mg/L	0.50	1	03/25/22 10:07	03/27/22 14:53	7440-09-7	
Sodium, Total Recoverable	13.1	mg/L	0.50	1	03/25/22 10:07	03/27/22 14:53	7440-23-5	
Total Hardness by 2340B, Total Recoverable	438	mg/L	1.0	2	03/25/22 10:07	03/28/22 21:05		
200.7 Metals, Dissolved								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Arsenic, Dissolved	<0.010	mg/L	0.010	1	03/28/22 09:40	03/28/22 18:55	7440-38-2	
Iron, Dissolved	<0.050	mg/L	0.050	1	03/28/22 09:40	03/28/22 18:55	7439-89-6	
Manganese, Dissolved	0.020	mg/L	0.0050	1	03/28/22 09:40	03/28/22 18:55	7439-96-5	
Molybdenum, Dissolved	<0.020	mg/L	0.020	1	03/28/22 09:40	03/28/22 18:55	7439-98-7	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Total Recoverable	<0.030	mg/L	0.030	3	03/29/22 09:45	03/31/22 18:00	7439-93-2	D3
6010 MET ICP, Dissolved								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Dissolved	<0.020	mg/L	0.020	2	03/29/22 13:22	03/31/22 17:43	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	0.0048	mg/L	0.0010	1	03/28/22 15:20	03/29/22 14:51	7440-38-2	
Cobalt, Total Recoverable	0.0013	mg/L	0.0010	1	03/28/22 15:20	03/29/22 14:51	7440-48-4	
Molybdenum, Total Recoverable	0.0022	mg/L	0.0010	1	03/28/22 15:20	03/29/22 14:51	7439-98-7	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Kansas City								
Alkalinity,Bicarbonate (CaCO3)	410	mg/L	20.0	1		03/26/22 08:49		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	20.0	1		03/26/22 08:49		
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Kansas City								
Total Dissolved Solids	581	mg/L	10.0	1		03/24/22 18:32		
Iron, Ferrous								
Analytical Method: SM 3500-Fe B#4								
Pace Analytical Services - Kansas City								
Iron, Ferrous	<0.20	mg/L	0.20	1		03/31/22 10:12	15438-31-0	H6

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ANALYTICAL RESULTS

Project: LEC PERIMTER ASH POND WELLS CC

Pace Project No.: 60395394

Sample: MW-M-031722	Lab ID: 60395394006	Collected: 03/17/22 10:35	Received: 03/17/22 16:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
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		03/25/22 13:12		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		03/24/22 14:12	18496-25-8	
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0								
Pace Analytical Services - Kansas City								
Chloride	7.0	mg/L	1.0	1		03/24/22 17:57	16887-00-6	
Fluoride	<0.20	mg/L	0.20	1		03/24/22 17:57	16984-48-8	
Sulfate	57.0	mg/L	20.0	20		03/24/22 18:10	14808-79-8	
5310C TOC								
Analytical Method: SM 5310C								
Pace Analytical Services - Indianapolis								
Total Organic Carbon	1.1	mg/L	1.0	1		04/01/22 19:37	7440-44-0	
5310C Dissolved Organic Carbon								
Analytical Method: SM 5310C								
Pace Analytical Services - Indianapolis								
Dissolved Organic Carbon	1.7	mg/L	1.0	1		04/08/22 01:30		C4

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LEC PERIMTER ASH POND WELLS CC

Pace Project No.: 60395394

Sample: MW-N-031622	Lab ID: 60395394007	Collected: 03/16/22 14:50	Received: 03/17/22 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	0.24	mg/L	0.0050	1	03/25/22 10:07	03/27/22 14:55	7440-39-3	
Boron, Total Recoverable	0.75	mg/L	0.10	1	03/25/22 10:07	03/27/22 14:55	7440-42-8	
Calcium, Total Recoverable	113	mg/L	0.40	2	03/25/22 10:07	03/28/22 21:07	7440-70-2	
Iron, Total Recoverable	11.6	mg/L	0.050	1	03/25/22 10:07	03/27/22 14:55	7439-89-6	
Lead, Total Recoverable	<0.010	mg/L	0.010	1	03/25/22 10:07	03/27/22 14:55	7439-92-1	
Magnesium, Total Recoverable	46.7	mg/L	0.050	1	03/25/22 10:07	03/27/22 14:55	7439-95-4	
Manganese, Total Recoverable	0.45	mg/L	0.0050	1	03/25/22 10:07	03/27/22 14:55	7439-96-5	
Potassium, Total Recoverable	17.8	mg/L	0.50	1	03/25/22 10:07	03/27/22 14:55	7440-09-7	
Sodium, Total Recoverable	27.2	mg/L	0.50	1	03/25/22 10:07	03/27/22 14:55	7440-23-5	
Total Hardness by 2340B, Total Recoverable	476	mg/L	1.0	2	03/25/22 10:07	03/28/22 21:07		
200.7 Metals, Dissolved								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Arsenic, Dissolved	<0.010	mg/L	0.010	1	03/28/22 09:40	03/28/22 18:57	7440-38-2	
Iron, Dissolved	0.33	mg/L	0.050	1	03/28/22 09:40	03/28/22 18:57	7439-89-6	
Manganese, Dissolved	0.35	mg/L	0.0050	1	03/28/22 09:40	03/28/22 18:57	7439-96-5	
Molybdenum, Dissolved	0.030	mg/L	0.020	1	03/28/22 09:40	03/28/22 18:57	7439-98-7	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Total Recoverable	0.045	mg/L	0.020	2	03/29/22 09:45	03/31/22 18:02	7439-93-2	
6010 MET ICP, Dissolved								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Dissolved	<0.020	mg/L	0.020	2	03/29/22 13:22	03/31/22 18:20	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	0.045	mg/L	0.0010	1	03/28/22 15:20	03/29/22 14:54	7440-38-2	
Cobalt, Total Recoverable	0.0012	mg/L	0.0010	1	03/28/22 15:20	03/29/22 14:54	7440-48-4	
Molybdenum, Total Recoverable	0.026	mg/L	0.0010	1	03/28/22 15:20	03/29/22 14:54	7439-98-7	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Kansas City								
Alkalinity,Bicarbonate (CaCO3)	472	mg/L	20.0	1		03/26/22 08:56		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	20.0	1		03/26/22 08:56		
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Kansas City								
Total Dissolved Solids	613	mg/L	10.0	1		03/23/22 17:15		
Iron, Ferrous								
Analytical Method: SM 3500-Fe B#4								
Pace Analytical Services - Kansas City								
Iron, Ferrous	0.20	mg/L	0.20	1		03/28/22 10:26	15438-31-0	H6

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ANALYTICAL RESULTS

Project: LEC PERIMTER ASH POND WELLS CC

Pace Project No.: 60395394

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Sample: MW-N-031622 Lab ID: 60395394007 Collected: 03/16/22 14:50 Received: 03/17/22 16:00 Matrix: Water								
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		03/25/22 13:02		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		03/22/22 16:36	18496-25-8	
300.0 IC Anions 28 Days Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City								
Chloride	19.9	mg/L	1.0	1		03/24/22 18:24	16887-00-6	
Fluoride	3.2	mg/L	0.20	1		03/24/22 18:24	16984-48-8	
Sulfate	64.3	mg/L	20.0	20		03/24/22 18:38	14808-79-8	
5310C TOC Analytical Method: SM 5310C Pace Analytical Services - Indianapolis								
Total Organic Carbon	2.2	mg/L	1.0	1		04/01/22 19:48	7440-44-0	
5310C Dissolved Organic Carbon Analytical Method: SM 5310C Pace Analytical Services - Indianapolis								
Dissolved Organic Carbon	3.2	mg/L	1.0	1		04/07/22 22:16		C4

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ANALYTICAL RESULTS

Project: LEC PERIMTER ASH POND WELLS CC

Pace Project No.: 60395394

Sample: MW-O-031622	Lab ID: 60395394008	Collected: 03/16/22 15:00	Received: 03/17/22 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	0.044	mg/L	0.0050	1	03/25/22 10:07	03/27/22 14:57	7440-39-3	
Boron, Total Recoverable	2.8	mg/L	0.10	1	03/25/22 10:07	03/27/22 14:57	7440-42-8	
Calcium, Total Recoverable	479	mg/L	2.0	10	03/25/22 10:07	03/28/22 21:09	7440-70-2	
Iron, Total Recoverable	11.3	mg/L	0.050	1	03/25/22 10:07	03/27/22 14:57	7439-89-6	
Lead, Total Recoverable	<0.010	mg/L	0.010	1	03/25/22 10:07	03/27/22 14:57	7439-92-1	
Magnesium, Total Recoverable	159	mg/L	0.50	10	03/25/22 10:07	03/28/22 21:09	7439-95-4	
Manganese, Total Recoverable	1.9	mg/L	0.0050	1	03/25/22 10:07	03/27/22 14:57	7439-96-5	
Potassium, Total Recoverable	29.3	mg/L	0.50	1	03/25/22 10:07	03/27/22 14:57	7440-09-7	
Sodium, Total Recoverable	433	mg/L	0.50	1	03/25/22 10:07	03/27/22 14:57	7440-23-5	
Total Hardness by 2340B, Total Recoverable	1850	mg/L	5.0	10	03/25/22 10:07	03/28/22 21:09		
200.7 Metals, Dissolved								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Arsenic, Dissolved	0.012	mg/L	0.010	1	03/28/22 09:40	03/28/22 18:59	7440-38-2	
Iron, Dissolved	7.4	mg/L	0.050	1	03/28/22 09:40	03/28/22 18:59	7439-89-6	
Manganese, Dissolved	1.8	mg/L	0.0050	1	03/28/22 09:40	03/28/22 18:59	7439-96-5	
Molybdenum, Dissolved	0.061	mg/L	0.020	1	03/28/22 09:40	03/28/22 18:59	7439-98-7	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Total Recoverable	0.087	mg/L	0.010	1	03/29/22 09:45	05/04/22 11:36	7439-93-2	
6010 MET ICP, Dissolved								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Dissolved	0.088	mg/L	0.010	1	03/29/22 13:22	05/04/22 11:20	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	0.017	mg/L	0.0010	1	03/28/22 15:20	03/29/22 14:56	7440-38-2	
Cobalt, Total Recoverable	<0.0010	mg/L	0.0010	1	03/28/22 15:20	03/29/22 14:56	7440-48-4	
Molybdenum, Total Recoverable	0.067	mg/L	0.0010	1	03/28/22 15:20	03/29/22 14:56	7439-98-7	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Kansas City								
Alkalinity,Bicarbonate (CaCO3)	250	mg/L	20.0	1		03/26/22 09:03		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	20.0	1		03/26/22 09:03		
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Kansas City								
Total Dissolved Solids	3290	mg/L	66.7	1		03/23/22 17:15		
Iron, Ferrous								
Analytical Method: SM 3500-Fe B#4								
Pace Analytical Services - Kansas City								
Iron, Ferrous	<0.20	mg/L	0.20	1		03/28/22 10:26	15438-31-0	H6

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ANALYTICAL RESULTS

Project: LEC PERIMTER ASH POND WELLS CC

Pace Project No.: 60395394

Sample: MW-O-031622	Lab ID: 60395394008	Collected: 03/16/22 15:00	Received: 03/17/22 16:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
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		03/25/22 13:03		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		03/22/22 16:37	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City							
Chloride	474	mg/L	50.0	50		03/25/22 05:43	16887-00-6	
Fluoride	3.2	mg/L	0.20	1		03/24/22 18:52	16984-48-8	
Sulfate	1640	mg/L	200	200		03/25/22 05:57	14808-79-8	
5310C TOC	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Total Organic Carbon	7.5	mg/L	4.0	4		04/04/22 20:46	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	7.6	mg/L	4.0	4		04/11/22 18:53		C4

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ANALYTICAL RESULTS

Project: LEC PERIMTER ASH POND WELLS CC

Pace Project No.: 60395394

Sample: MW-P-031722	Lab ID: 60395394009	Collected: 03/17/22 11:40	Received: 03/17/22 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	0.060	mg/L	0.0050	1	03/25/22 10:07	03/27/22 14:59	7440-39-3	
Boron, Total Recoverable	0.93	mg/L	0.10	1	03/25/22 10:07	03/27/22 14:59	7440-42-8	
Calcium, Total Recoverable	189	mg/L	0.60	3	03/25/22 10:07	03/28/22 21:16	7440-70-2	
Iron, Total Recoverable	1.8	mg/L	0.050	1	03/25/22 10:07	03/27/22 14:59	7439-89-6	
Lead, Total Recoverable	<0.010	mg/L	0.010	1	03/25/22 10:07	03/27/22 14:59	7439-92-1	
Magnesium, Total Recoverable	39.1	mg/L	0.050	1	03/25/22 10:07	03/27/22 14:59	7439-95-4	
Manganese, Total Recoverable	1.5	mg/L	0.0050	1	03/25/22 10:07	03/27/22 14:59	7439-96-5	
Potassium, Total Recoverable	14.5	mg/L	0.50	1	03/25/22 10:07	03/27/22 14:59	7440-09-7	
Sodium, Total Recoverable	41.9	mg/L	0.50	1	03/25/22 10:07	03/27/22 14:59	7440-23-5	
Total Hardness by 2340B, Total Recoverable	634	mg/L	1.5	3	03/25/22 10:07	03/28/22 21:16		
200.7 Metals, Dissolved								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Arsenic, Dissolved	<0.010	mg/L	0.010	1	03/28/22 09:40	03/28/22 19:06	7440-38-2	
Iron, Dissolved	<0.050	mg/L	0.050	1	03/28/22 09:40	03/28/22 19:06	7439-89-6	
Manganese, Dissolved	0.63	mg/L	0.0050	1	03/28/22 09:40	03/28/22 19:06	7439-96-5	
Molybdenum, Dissolved	0.035	mg/L	0.020	1	03/28/22 09:40	03/28/22 19:06	7439-98-7	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Total Recoverable	<0.030	mg/L	0.030	3	03/29/22 09:45	03/31/22 18:13	7439-93-2	D3
6010 MET ICP, Dissolved								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Dissolved	<0.030	mg/L	0.030	3	03/29/22 13:22	03/31/22 17:50	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	0.0054	mg/L	0.0010	1	03/28/22 15:20	03/29/22 14:59	7440-38-2	
Cobalt, Total Recoverable	0.0027	mg/L	0.0010	1	03/28/22 15:20	03/29/22 14:59	7440-48-4	
Molybdenum, Total Recoverable	0.033	mg/L	0.0010	1	03/28/22 15:20	03/29/22 14:59	7439-98-7	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Kansas City								
Alkalinity,Bicarbonate (CaCO3)	440	mg/L	20.0	1		03/26/22 09:21		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	20.0	1		03/26/22 09:21		
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Kansas City								
Total Dissolved Solids	1090	mg/L	13.3	1		03/24/22 18:32		
Iron, Ferrous								
Analytical Method: SM 3500-Fe B#4								
Pace Analytical Services - Kansas City								
Iron, Ferrous	<0.20	mg/L	0.20	1		03/30/22 17:08	15438-31-0	H6

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ANALYTICAL RESULTS

Project: LEC PERIMTER ASH POND WELLS CC

Pace Project No.: 60395394

Sample: MW-P-031722	Lab ID: 60395394009	Collected: 03/17/22 11:40	Received: 03/17/22 16:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
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		03/28/22 14:09		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		03/24/22 14:13	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City							
Chloride	40.8	mg/L	20.0	20		03/24/22 19:34	16887-00-6	
Fluoride	1.5	mg/L	0.20	1		03/24/22 19:20	16984-48-8	
Sulfate	230	mg/L	20.0	20		03/24/22 19:34	14808-79-8	
5310C TOC	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Total Organic Carbon	2.0	mg/L	1.0	1		04/01/22 20:15	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	4.7	mg/L	1.0	1		04/08/22 05:17		C4

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ANALYTICAL RESULTS

Project: LEC PERIMTER ASH POND WELLS CC

Pace Project No.: 60395394

Sample: MW-101-031622	Lab ID: 60395394010	Collected: 03/16/22 12:00	Received: 03/17/22 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	0.19	mg/L	0.0050	1	03/25/22 10:07	03/27/22 15:02	7440-39-3	
Boron, Total Recoverable	0.17	mg/L	0.10	1	03/25/22 10:07	03/27/22 15:02	7440-42-8	
Calcium, Total Recoverable	102	mg/L	0.40	2	03/25/22 10:07	03/28/22 21:19	7440-70-2	M1
Iron, Total Recoverable	3.4	mg/L	0.050	1	03/25/22 10:07	03/27/22 15:02	7439-89-6	
Lead, Total Recoverable	<0.010	mg/L	0.010	1	03/25/22 10:07	03/27/22 15:02	7439-92-1	
Magnesium, Total Recoverable	25.7	mg/L	0.050	1	03/25/22 10:07	03/27/22 15:02	7439-95-4	
Manganese, Total Recoverable	0.42	mg/L	0.0050	1	03/25/22 10:07	03/27/22 15:02	7439-96-5	
Potassium, Total Recoverable	6.7	mg/L	0.50	1	03/25/22 10:07	03/27/22 15:02	7440-09-7	
Sodium, Total Recoverable	14.7	mg/L	0.50	1	03/25/22 10:07	03/27/22 15:02	7440-23-5	
Total Hardness by 2340B, Total Recoverable	361	mg/L	1.0	2	03/25/22 10:07	03/28/22 21:19		
200.7 Metals, Dissolved								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Arsenic, Dissolved	<0.010	mg/L	0.010	1	03/28/22 09:40	03/28/22 19:08	7440-38-2	
Iron, Dissolved	3.2	mg/L	0.050	1	03/28/22 09:40	03/28/22 19:08	7439-89-6	
Manganese, Dissolved	0.52	mg/L	0.0050	1	03/28/22 09:40	03/28/22 19:08	7439-96-5	
Molybdenum, Dissolved	0.020	mg/L	0.020	1	03/28/22 09:40	03/28/22 19:08	7439-98-7	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Total Recoverable	<0.020	mg/L	0.020	2	03/29/22 09:45	03/31/22 18:15	7439-93-2	D3
6010 MET ICP, Dissolved								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Dissolved	<0.020	mg/L	0.020	2	03/29/22 13:22	03/31/22 17:52	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	0.0032	mg/L	0.0010	1	03/28/22 15:20	03/29/22 15:04	7440-38-2	
Cobalt, Total Recoverable	<0.0010	mg/L	0.0010	1	03/28/22 15:20	03/29/22 15:04	7440-48-4	
Molybdenum, Total Recoverable	0.022	mg/L	0.0010	1	03/28/22 15:20	03/29/22 15:04	7439-98-7	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Kansas City								
Alkalinity,Bicarbonate (CaCO3)	320	mg/L	20.0	1		03/26/22 09:27		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	20.0	1		03/26/22 09:27		
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Kansas City								
Total Dissolved Solids	479	mg/L	10.0	1		03/23/22 17:16		
Iron, Ferrous								
Analytical Method: SM 3500-Fe B#4								
Pace Analytical Services - Kansas City								
Iron, Ferrous	<0.20	mg/L	0.20	1		03/28/22 10:21	15438-31-0	H6

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LEC PERIMTER ASH POND WELLS CC

Pace Project No.: 60395394

Sample: MW-101-031622	Lab ID: 60395394010	Collected: 03/16/22 12:00	Received: 03/17/22 16:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
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		03/24/22 15:10		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		03/22/22 16:37	18496-25-8	
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0								
Pace Analytical Services - Kansas City								
Chloride	40.3	mg/L	20.0	20		03/24/22 20:29	16887-00-6	
Fluoride	0.88	mg/L	0.20	1		03/24/22 20:15	16984-48-8	
Sulfate	31.3	mg/L	20.0	20		03/24/22 20:29	14808-79-8	
5310C TOC								
Analytical Method: SM 5310C								
Pace Analytical Services - Indianapolis								
Total Organic Carbon	1.9	mg/L	1.0	1		04/01/22 20:25	7440-44-0	
5310C Dissolved Organic Carbon								
Analytical Method: SM 5310C								
Pace Analytical Services - Indianapolis								
Dissolved Organic Carbon	2.2	mg/L	1.0	1		04/07/22 20:33		C4

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ANALYTICAL RESULTS

Project: LEC PERIMTER ASH POND WELLS CC

Pace Project No.: 60395394

Sample: MW-102-031622	Lab ID: 60395394011	Collected: 03/16/22 13:25	Received: 03/17/22 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	0.14	mg/L	0.0050	1	03/25/22 10:07	03/28/22 21:23	7440-39-3	
Boron, Total Recoverable	0.82	mg/L	0.10	1	03/25/22 10:07	03/28/22 21:23	7440-42-8	
Calcium, Total Recoverable	116	mg/L	0.60	3	03/25/22 10:07	03/28/22 21:25	7440-70-2	
Iron, Total Recoverable	1.6	mg/L	0.050	1	03/25/22 10:07	03/28/22 21:23	7439-89-6	
Lead, Total Recoverable	<0.010	mg/L	0.010	1	03/25/22 10:07	03/28/22 21:23	7439-92-1	
Magnesium, Total Recoverable	34.3	mg/L	0.050	1	03/25/22 10:07	03/28/22 21:23	7439-95-4	
Manganese, Total Recoverable	0.44	mg/L	0.0050	1	03/25/22 10:07	03/28/22 21:23	7439-96-5	
Potassium, Total Recoverable	8.8	mg/L	0.50	1	03/25/22 10:07	03/28/22 21:23	7440-09-7	
Sodium, Total Recoverable	20.9	mg/L	0.50	1	03/25/22 10:07	03/28/22 21:23	7440-23-5	
Total Hardness by 2340B, Total Recoverable	431	mg/L	1.5	3	03/25/22 10:07	03/28/22 21:25		
200.7 Metals, Dissolved								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Arsenic, Dissolved	0.010	mg/L	0.010	1	03/28/22 09:40	03/28/22 19:13	7440-38-2	
Iron, Dissolved	1.6	mg/L	0.050	1	03/28/22 09:40	03/28/22 19:13	7439-89-6	
Manganese, Dissolved	0.45	mg/L	0.0050	1	03/28/22 09:40	03/28/22 19:13	7439-96-5	
Molybdenum, Dissolved	0.064	mg/L	0.020	1	03/28/22 09:40	03/28/22 19:13	7439-98-7	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Total Recoverable	0.034	mg/L	0.020	2	03/29/22 09:45	03/31/22 18:18	7439-93-2	
6010 MET ICP, Dissolved								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Dissolved	0.034	mg/L	0.020	2	03/29/22 13:22	03/31/22 17:54	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	0.0089	mg/L	0.0010	1	03/28/22 15:20	03/29/22 15:07	7440-38-2	
Cobalt, Total Recoverable	<0.0010	mg/L	0.0010	1	03/28/22 15:20	03/29/22 15:07	7440-48-4	
Molybdenum, Total Recoverable	0.057	mg/L	0.0010	1	03/28/22 15:20	03/29/22 15:07	7439-98-7	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Kansas City								
Alkalinity,Bicarbonate (CaCO ₃)	439	mg/L	20.0	1		03/26/22 09:33		
Alkalinity,Carbonate (CaCO ₃)	ND	mg/L	20.0	1		03/26/22 09:33		
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Kansas City								
Total Dissolved Solids	533	mg/L	10.0	1		03/23/22 17:16		
Iron, Ferrous								
Analytical Method: SM 3500-Fe B#4								
Pace Analytical Services - Kansas City								
Iron, Ferrous	<0.20	mg/L	0.20	1		03/28/22 10:24	15438-31-0	H6

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ANALYTICAL RESULTS

Project: LEC PERIMTER ASH POND WELLS CC

Pace Project No.: 60395394

Sample: MW-102-031622	Lab ID: 60395394011	Collected: 03/16/22 13:25	Received: 03/17/22 16:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
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		03/24/22 15:18		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		03/22/22 16:37	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City							
Chloride	15.6	mg/L	1.0	1		03/24/22 20:42	16887-00-6	
Fluoride	3.5	mg/L	0.20	1		03/24/22 20:42	16984-48-8	
Sulfate	58.2	mg/L	20.0	20		03/24/22 20:56	14808-79-8	
5310C TOC	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Total Organic Carbon	1.3	mg/L	1.0	1		04/01/22 20:35	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	1.8	mg/L	1.0	1		04/07/22 21:38		C4

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ANALYTICAL RESULTS

Project: LEC PERIMTER ASH POND WELLS CC

Pace Project No.: 60395394

Sample: MW-103-031522	Lab ID: 60395394012	Collected: 03/15/22 13:10	Received: 03/17/22 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	0.043	mg/L	0.0050	1	03/25/22 10:07	03/28/22 21:28	7440-39-3	
Boron, Total Recoverable	4.7	mg/L	0.10	1	03/25/22 10:07	03/28/22 21:28	7440-42-8	
Calcium, Total Recoverable	336	mg/L	1.0	5	03/25/22 10:07	03/28/22 21:30	7440-70-2	
Iron, Total Recoverable	5.5	mg/L	0.050	1	03/25/22 10:07	03/28/22 21:28	7439-89-6	
Lead, Total Recoverable	<0.010	mg/L	0.010	1	03/25/22 10:07	03/28/22 21:28	7439-92-1	
Magnesium, Total Recoverable	49.0	mg/L	0.050	1	03/25/22 10:07	03/28/22 21:28	7439-95-4	
Manganese, Total Recoverable	1.6	mg/L	0.0050	1	03/25/22 10:07	03/28/22 21:28	7439-96-5	
Potassium, Total Recoverable	23.5	mg/L	0.50	1	03/25/22 10:07	03/28/22 21:28	7440-09-7	
Sodium, Total Recoverable	282	mg/L	0.50	1	03/25/22 10:07	03/28/22 21:28	7440-23-5	
Total Hardness by 2340B, Total Recoverable	1040	mg/L	2.5	5	03/25/22 10:07	03/28/22 21:30		
200.7 Metals, Dissolved								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Arsenic, Dissolved	<0.010	mg/L	0.010	1	03/28/22 09:40	03/28/22 19:15	7440-38-2	
Iron, Dissolved	3.8	mg/L	0.050	1	03/28/22 09:40	03/28/22 19:15	7439-89-6	
Manganese, Dissolved	1.6	mg/L	0.0050	1	03/28/22 09:40	03/28/22 19:15	7439-96-5	
Molybdenum, Dissolved	0.21	mg/L	0.020	1	03/28/22 09:40	03/28/22 19:15	7439-98-7	
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	03/29/22 09:45	05/04/22 11:38	7439-93-2	
6010 MET ICP, Dissolved								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Dissolved	0.044	mg/L	0.010	1	03/29/22 13:22	05/04/22 11:22	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	0.0072	mg/L	0.0010	1	03/28/22 15:20	03/29/22 15:13	7440-38-2	
Cobalt, Total Recoverable	<0.0010	mg/L	0.0010	1	03/28/22 15:20	03/29/22 15:13	7440-48-4	
Molybdenum, Total Recoverable	0.22	mg/L	0.0010	1	03/28/22 15:20	03/29/22 15:13	7439-98-7	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Kansas City								
Alkalinity,Bicarbonate (CaCO3)	298	mg/L	20.0	1		03/24/22 20:08		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	20.0	1		03/24/22 20:08		
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Kansas City								
Total Dissolved Solids	2160	mg/L	40.0	1		03/21/22 16:38		
Iron, Ferrous								
Analytical Method: SM 3500-Fe B#4								
Pace Analytical Services - Kansas City								
Iron, Ferrous	<0.20	mg/L	0.20	1		03/28/22 09:40	15438-31-0	H6

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ANALYTICAL RESULTS

Project: LEC PERIMTER ASH POND WELLS CC

Pace Project No.: 60395394

Sample: MW-103-031522	Lab ID: 60395394012	Collected: 03/15/22 13:10	Received: 03/17/22 16:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
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		03/24/22 10:03		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		03/22/22 17:23	18496-25-8	M1
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City								
Chloride	202	mg/L	20.0	20		03/24/22 21:24	16887-00-6	
Fluoride	2.4	mg/L	0.20	1		03/24/22 21:10	16984-48-8	
Sulfate	1050	mg/L	100	100		03/25/22 12:40	14808-79-8	
5310C TOC								
Analytical Method: SM 5310C Pace Analytical Services - Indianapolis								
Total Organic Carbon	3.2	mg/L	1.0	1		04/01/22 20:47	7440-44-0	
5310C Dissolved Organic Carbon								
Analytical Method: SM 5310C Pace Analytical Services - Indianapolis								
Dissolved Organic Carbon	5.0	mg/L	1.0	1		04/07/22 18:11		C4

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ANALYTICAL RESULTS

Project: LEC PERIMTER ASH POND WELLS CC

Pace Project No.: 60395394

Sample: MW-104-031722	Lab ID: 60395394013	Collected: 03/17/22 10:55	Received: 03/17/22 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	0.041	mg/L	0.0050	1	03/25/22 10:07	03/28/22 21:32	7440-39-3	
Boron, Total Recoverable	1.3	mg/L	0.10	1	03/25/22 10:07	03/28/22 21:32	7440-42-8	
Calcium, Total Recoverable	269	mg/L	1.0	5	03/25/22 10:07	03/28/22 21:34	7440-70-2	
Iron, Total Recoverable	1.8	mg/L	0.050	1	03/25/22 10:07	03/28/22 21:32	7439-89-6	
Lead, Total Recoverable	<0.010	mg/L	0.010	1	03/25/22 10:07	03/28/22 21:32	7439-92-1	
Magnesium, Total Recoverable	27.0	mg/L	0.050	1	03/25/22 10:07	03/28/22 21:32	7439-95-4	
Manganese, Total Recoverable	0.69	mg/L	0.0050	1	03/25/22 10:07	03/28/22 21:32	7439-96-5	
Potassium, Total Recoverable	54.1	mg/L	0.50	1	03/25/22 10:07	03/28/22 21:32	7440-09-7	
Sodium, Total Recoverable	130	mg/L	0.50	1	03/25/22 10:07	03/28/22 21:32	7440-23-5	
Total Hardness by 2340B, Total Recoverable	784	mg/L	2.5	5	03/25/22 10:07	03/28/22 21:34		
200.7 Metals, Dissolved								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Arsenic, Dissolved	<0.010	mg/L	0.010	1	03/28/22 09:40	03/28/22 19:17	7440-38-2	
Iron, Dissolved	<0.050	mg/L	0.050	1	03/28/22 09:40	03/28/22 19:17	7439-89-6	
Manganese, Dissolved	0.012	mg/L	0.0050	1	03/28/22 09:40	03/28/22 19:17	7439-96-5	
Molybdenum, Dissolved	0.033	mg/L	0.020	1	03/28/22 09:40	03/28/22 19:17	7439-98-7	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Total Recoverable	0.044	mg/L	0.010	1	03/29/22 09:45	05/04/22 11:40	7439-93-2	
6010 MET ICP, Dissolved								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Dissolved	0.042	mg/L	0.010	1	03/29/22 13:22	05/04/22 11:28	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	0.0019	mg/L	0.0010	1	03/28/22 15:20	03/29/22 15:18	7440-38-2	
Cobalt, Total Recoverable	<0.0010	mg/L	0.0010	1	03/28/22 15:20	03/29/22 15:18	7440-48-4	
Molybdenum, Total Recoverable	0.033	mg/L	0.0010	1	03/28/22 15:20	03/29/22 15:18	7439-98-7	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Kansas City								
Alkalinity,Bicarbonate (CaCO3)	415	mg/L	20.0	1		03/26/22 09:39		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	20.0	1		03/26/22 09:39		
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Kansas City								
Total Dissolved Solids	1140	mg/L	20.0	1		03/24/22 18:32		
Iron, Ferrous								
Analytical Method: SM 3500-Fe B#4								
Pace Analytical Services - Kansas City								
Iron, Ferrous	<0.20	mg/L	0.20	1		03/31/22 10:12	15438-31-0	H6

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ANALYTICAL RESULTS

Project: LEC PERIMTER ASH POND WELLS CC

Pace Project No.: 60395394

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Sample: MW-104-031722 Lab ID: 60395394013 Collected: 03/17/22 10:55 Received: 03/17/22 16:00 Matrix: Water								
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		03/28/22 14:05		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		03/24/22 14:14	18496-25-8	
300.0 IC Anions 28 Days Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City								
Chloride	118	mg/L	20.0	20		03/24/22 21:52	16887-00-6	
Fluoride	0.38	mg/L	0.20	1		03/24/22 21:38	16984-48-8	
Sulfate	484	mg/L	50.0	50		03/25/22 12:54	14808-79-8	
5310C TOC Analytical Method: SM 5310C Pace Analytical Services - Indianapolis								
Total Organic Carbon	2.9	mg/L	1.0	1		04/01/22 20:59	7440-44-0	
5310C Dissolved Organic Carbon Analytical Method: SM 5310C Pace Analytical Services - Indianapolis								
Dissolved Organic Carbon	3.4	mg/L	1.0	1		04/08/22 01:50		C4

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ANALYTICAL RESULTS

Project: LEC PERIMTER ASH POND WELLS CC

Pace Project No.: 60395394

Sample: MW-106-031622	Lab ID: 60395394014	Collected: 03/16/22 17:55	Received: 03/17/22 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	0.26	mg/L	0.0050	1	03/25/22 10:07	03/28/22 21:37	7440-39-3	
Boron, Total Recoverable	<0.10	mg/L	0.10	1	03/25/22 10:07	03/28/22 21:37	7440-42-8	
Calcium, Total Recoverable	40.3	mg/L	0.20	1	03/25/22 10:07	03/28/22 21:37	7440-70-2	
Iron, Total Recoverable	1.1	mg/L	0.050	1	03/25/22 10:07	03/28/22 21:37	7439-89-6	
Lead, Total Recoverable	<0.010	mg/L	0.010	1	03/25/22 10:07	03/28/22 21:37	7439-92-1	
Magnesium, Total Recoverable	6.6	mg/L	0.050	1	03/25/22 10:07	03/28/22 21:37	7439-95-4	
Manganese, Total Recoverable	0.14	mg/L	0.0050	1	03/25/22 10:07	03/28/22 21:37	7439-96-5	
Potassium, Total Recoverable	1.9	mg/L	0.50	1	03/25/22 10:07	03/28/22 21:37	7440-09-7	
Sodium, Total Recoverable	39.1	mg/L	0.50	1	03/25/22 10:07	03/28/22 21:37	7440-23-5	
Total Hardness by 2340B, Total Recoverable	128	mg/L	0.50	1	03/25/22 10:07	03/28/22 21:37		
200.7 Metals, Dissolved								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Arsenic, Dissolved	<0.010	mg/L	0.010	1	03/28/22 09:40	03/28/22 19:19	7440-38-2	
Iron, Dissolved	<0.050	mg/L	0.050	1	03/28/22 09:40	03/28/22 19:19	7439-89-6	
Manganese, Dissolved	0.014	mg/L	0.0050	1	03/28/22 09:40	03/28/22 19:19	7439-96-5	
Molybdenum, Dissolved	<0.020	mg/L	0.020	1	03/28/22 09:40	03/28/22 19:19	7439-98-7	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Total Recoverable	0.014	mg/L	0.010	1	03/29/22 09:45	03/30/22 19:46	7439-93-2	
6010 MET ICP, Dissolved								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Dissolved	0.011	mg/L	0.010	1	03/29/22 13:22	03/31/22 15:20	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	0.0023	mg/L	0.0010	1	03/28/22 15:20	03/29/22 15:21	7440-38-2	
Cobalt, Total Recoverable	0.0046	mg/L	0.0010	1	03/28/22 15:20	03/29/22 15:21	7440-48-4	
Molybdenum, Total Recoverable	0.0012	mg/L	0.0010	1	03/28/22 15:20	03/29/22 15:21	7439-98-7	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Kansas City								
Alkalinity,Bicarbonate (CaCO3)	216	mg/L	20.0	1		03/26/22 09:52		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	20.0	1		03/26/22 09:52		
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Kansas City								
Total Dissolved Solids	296	mg/L	5.0	1		03/23/22 17:16		
Iron, Ferrous								
Analytical Method: SM 3500-Fe B#4								
Pace Analytical Services - Kansas City								
Iron, Ferrous	<0.20	mg/L	0.20	1		03/28/22 10:32	15438-31-0	H6

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ANALYTICAL RESULTS

Project: LEC PERIMTER ASH POND WELLS CC

Pace Project No.: 60395394

Sample: MW-106-031622	Lab ID: 60395394014	Collected: 03/16/22 17:55	Received: 03/17/22 16:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
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		03/25/22 13:09		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		03/22/22 16:37	18496-25-8	
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0								
Pace Analytical Services - Kansas City								
Chloride	1.7	mg/L	1.0	1		03/24/22 22:06	16887-00-6	M1
Fluoride	0.26	mg/L	0.20	1		03/24/22 22:06	16984-48-8	
Sulfate	4.0	mg/L	1.0	1		03/24/22 22:06	14808-79-8	
5310C TOC								
Analytical Method: SM 5310C								
Pace Analytical Services - Indianapolis								
Total Organic Carbon	<4.0	mg/L	4.0	4		04/01/22 21:09	7440-44-0	D3
5310C Dissolved Organic Carbon								
Analytical Method: SM 5310C								
Pace Analytical Services - Indianapolis								
Dissolved Organic Carbon	3.1	mg/L	1.0	1		04/08/22 00:45		C4

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ANALYTICAL RESULTS

Project: LEC PERIMTER ASH POND WELLS CC

Pace Project No.: 60395394

Sample: MW-107-031622	Lab ID: 60395394015	Collected: 03/16/22 16:20	Received: 03/17/22 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	0.16	mg/L	0.0050	1	03/25/22 10:07	03/28/22 21:43	7440-39-3	
Boron, Total Recoverable	0.13	mg/L	0.10	1	03/25/22 10:07	03/28/22 21:43	7440-42-8	
Calcium, Total Recoverable	124	mg/L	0.40	2	03/25/22 10:07	03/28/22 21:46	7440-70-2	
Iron, Total Recoverable	0.057	mg/L	0.050	1	03/25/22 10:07	03/28/22 21:43	7439-89-6	
Lead, Total Recoverable	<0.010	mg/L	0.010	1	03/25/22 10:07	03/28/22 21:43	7439-92-1	
Magnesium, Total Recoverable	25.5	mg/L	0.050	1	03/25/22 10:07	03/28/22 21:43	7439-95-4	
Manganese, Total Recoverable	0.22	mg/L	0.0050	1	03/25/22 10:07	03/28/22 21:43	7439-96-5	
Potassium, Total Recoverable	8.4	mg/L	0.50	1	03/25/22 10:07	03/28/22 21:43	7440-09-7	
Sodium, Total Recoverable	8.3	mg/L	0.50	1	03/25/22 10:07	03/28/22 21:43	7440-23-5	
Total Hardness by 2340B, Total Recoverable	415	mg/L	1.0	2	03/25/22 10:07	03/28/22 21:46		
200.7 Metals, Dissolved								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Arsenic, Dissolved	<0.010	mg/L	0.010	1	03/28/22 09:40	03/28/22 19:22	7440-38-2	
Iron, Dissolved	<0.050	mg/L	0.050	1	03/28/22 09:40	03/28/22 19:22	7439-89-6	
Manganese, Dissolved	0.18	mg/L	0.0050	1	03/28/22 09:40	03/28/22 19:22	7439-96-5	
Molybdenum, Dissolved	<0.020	mg/L	0.020	1	03/28/22 09:40	03/28/22 19:22	7439-98-7	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Total Recoverable	<0.020	mg/L	0.020	2	03/29/22 09:45	03/31/22 18:24	7439-93-2	D3
6010 MET ICP, Dissolved								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Dissolved	<0.020	mg/L	0.020	2	03/29/22 13:22	03/31/22 18:01	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	0.0019	mg/L	0.0010	1	03/28/22 15:20	03/29/22 15:23	7440-38-2	
Cobalt, Total Recoverable	<0.0010	mg/L	0.0010	1	03/28/22 15:20	03/29/22 15:23	7440-48-4	
Molybdenum, Total Recoverable	0.020	mg/L	0.0010	1	03/28/22 15:20	03/29/22 15:23	7439-98-7	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Kansas City								
Alkalinity,Bicarbonate (CaCO3)	386	mg/L	20.0	1		03/26/22 09:58		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	20.0	1		03/26/22 09:58		
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Kansas City								
Total Dissolved Solids	507	mg/L	10.0	1		03/23/22 17:17		
Iron, Ferrous								
Analytical Method: SM 3500-Fe B#4								
Pace Analytical Services - Kansas City								
Iron, Ferrous	<0.20	mg/L	0.20	1		03/28/22 10:29	15438-31-0	H6

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ANALYTICAL RESULTS

Project: LEC PERIMTER ASH POND WELLS CC

Pace Project No.: 60395394

Sample: MW-107-031622	Lab ID: 60395394015	Collected: 03/16/22 16:20	Received: 03/17/22 16:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
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		03/24/22 15:23		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		03/22/22 16:38	18496-25-8	
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City								
Chloride	10.5	mg/L	1.0	1		03/24/22 23:29	16887-00-6	
Fluoride	0.76	mg/L	0.20	1		03/24/22 23:29	16984-48-8	
Sulfate	47.5	mg/L	20.0	20		03/24/22 23:43	14808-79-8	
5310C TOC								
Analytical Method: SM 5310C Pace Analytical Services - Indianapolis								
Total Organic Carbon	1.4	mg/L	1.0	1		04/01/22 21:19	7440-44-0	
5310C Dissolved Organic Carbon								
Analytical Method: SM 5310C Pace Analytical Services - Indianapolis								
Dissolved Organic Carbon	2.1	mg/L	1.0	1		04/07/22 22:58		C4

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ANALYTICAL RESULTS

Project: LEC PERIMTER ASH POND WELLS CC

Pace Project No.: 60395394

Sample: MW-108-031622	Lab ID: 60395394016	Collected: 03/16/22 13:35	Received: 03/17/22 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	0.20	mg/L	0.0050	1	03/25/22 10:07	03/28/22 21:48	7440-39-3	
Boron, Total Recoverable	0.22	mg/L	0.10	1	03/25/22 10:07	03/28/22 21:48	7440-42-8	
Calcium, Total Recoverable	87.0	mg/L	0.20	1	03/25/22 10:07	03/28/22 21:48	7440-70-2	
Iron, Total Recoverable	0.51	mg/L	0.050	1	03/25/22 10:07	03/28/22 21:48	7439-89-6	
Lead, Total Recoverable	<0.010	mg/L	0.010	1	03/25/22 10:07	03/28/22 21:48	7439-92-1	
Magnesium, Total Recoverable	26.9	mg/L	0.050	1	03/25/22 10:07	03/28/22 21:48	7439-95-4	
Manganese, Total Recoverable	0.14	mg/L	0.0050	1	03/25/22 10:07	03/28/22 21:48	7439-96-5	
Potassium, Total Recoverable	10.6	mg/L	0.50	1	03/25/22 10:07	03/28/22 21:48	7440-09-7	
Sodium, Total Recoverable	23.3	mg/L	0.50	1	03/25/22 10:07	03/28/22 21:48	7440-23-5	
Total Hardness by 2340B, Total Recoverable	328	mg/L	0.50	1	03/25/22 10:07	03/28/22 21:48		
200.7 Metals, Dissolved								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Arsenic, Dissolved	<0.010	mg/L	0.010	1	03/28/22 09:40	03/28/22 19:33	7440-38-2	
Iron, Dissolved	0.57	mg/L	0.050	1	03/28/22 09:40	03/28/22 19:33	7439-89-6	
Manganese, Dissolved	0.19	mg/L	0.0050	1	03/28/22 09:40	03/28/22 19:33	7439-96-5	
Molybdenum, Dissolved	0.029	mg/L	0.020	1	03/28/22 09:40	03/28/22 19:33	7439-98-7	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Total Recoverable	0.018	mg/L	0.010	1	03/29/22 09:45	03/30/22 19:57	7439-93-2	
6010 MET ICP, Dissolved								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Dissolved	0.018	mg/L	0.010	1	03/29/22 13:22	03/31/22 15:31	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	0.0034	mg/L	0.0010	1	03/28/22 15:20	03/29/22 15:26	7440-38-2	
Cobalt, Total Recoverable	<0.0010	mg/L	0.0010	1	03/28/22 15:20	03/29/22 15:26	7440-48-4	
Molybdenum, Total Recoverable	0.031	mg/L	0.0010	1	03/28/22 15:20	03/29/22 15:26	7439-98-7	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Kansas City								
Alkalinity,Bicarbonate (CaCO3)	285	mg/L	20.0	1		03/26/22 10:05		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	20.0	1		03/26/22 10:05		
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Kansas City								
Total Dissolved Solids	482	mg/L	10.0	1		03/23/22 17:17		
Iron, Ferrous								
Analytical Method: SM 3500-Fe B#4								
Pace Analytical Services - Kansas City								
Iron, Ferrous	<0.20	mg/L	0.20	1		03/28/22 10:24	15438-31-0	H6

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ANALYTICAL RESULTS

Project: LEC PERIMTER ASH POND WELLS CC

Pace Project No.: 60395394

Sample: MW-108-031622	Lab ID: 60395394016	Collected: 03/16/22 13:35	Received: 03/17/22 16:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
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		03/24/22 15:19		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		03/22/22 16:38	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City							
Chloride	40.6	mg/L	10.0	10		03/25/22 13:08	16887-00-6	
Fluoride	1.6	mg/L	0.20	1		03/24/22 23:56	16984-48-8	
Sulfate	27.8	mg/L	10.0	10		03/25/22 13:08	14808-79-8	
5310C TOC	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Total Organic Carbon	2.3	mg/L	1.0	1		04/01/22 23:44	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	2.6	mg/L	1.0	1		04/07/22 21:57		C4

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ANALYTICAL RESULTS

Project: LEC PERIMTER ASH POND WELLS CC

Pace Project No.: 60395394

Sample: MW-109-031622	Lab ID: 60395394017	Collected: 03/16/22 16:30	Received: 03/17/22 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	03/25/22 10:07	03/28/22 21:50	7440-39-3	
Boron, Total Recoverable	5.0	mg/L	0.10	1	03/25/22 10:07	03/28/22 21:50	7440-42-8	
Calcium, Total Recoverable	478	mg/L	2.0	10	03/25/22 10:07	03/28/22 21:52	7440-70-2	
Iron, Total Recoverable	4.0	mg/L	0.050	1	03/25/22 10:07	03/28/22 21:50	7439-89-6	
Lead, Total Recoverable	<0.010	mg/L	0.010	1	03/25/22 10:07	03/28/22 21:50	7439-92-1	
Magnesium, Total Recoverable	120	mg/L	0.50	10	03/25/22 10:07	03/28/22 21:52	7439-95-4	
Manganese, Total Recoverable	2.8	mg/L	0.0050	1	03/25/22 10:07	03/28/22 21:50	7439-96-5	
Potassium, Total Recoverable	25.9	mg/L	0.50	1	03/25/22 10:07	03/28/22 21:50	7440-09-7	
Sodium, Total Recoverable	335	mg/L	0.50	1	03/25/22 10:07	03/28/22 21:50	7440-23-5	
Total Hardness by 2340B, Total Recoverable	1690	mg/L	5.0	10	03/25/22 10:07	03/28/22 21:52		
200.7 Metals, Dissolved								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Arsenic, Dissolved	0.010	mg/L	0.010	1	03/28/22 09:40	03/28/22 19:40	7440-38-2	
Iron, Dissolved	3.8	mg/L	0.050	1	03/28/22 09:40	03/28/22 19:40	7439-89-6	
Manganese, Dissolved	2.8	mg/L	0.0050	1	03/28/22 09:40	03/28/22 19:40	7439-96-5	
Molybdenum, Dissolved	0.12	mg/L	0.020	1	03/28/22 09:40	03/28/22 19:40	7439-98-7	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Total Recoverable	0.056	mg/L	0.010	1	03/29/22 09:45	05/04/22 11:42	7439-93-2	
6010 MET ICP, Dissolved								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Dissolved	0.059	mg/L	0.010	1	03/29/22 13:22	05/04/22 11:30	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	0.0065	mg/L	0.0010	1	03/28/22 15:20	03/29/22 15:32	7440-38-2	
Cobalt, Total Recoverable	<0.0010	mg/L	0.0010	1	03/28/22 15:20	03/29/22 15:32	7440-48-4	
Molybdenum, Total Recoverable	0.12	mg/L	0.0010	1	03/28/22 15:20	03/29/22 15:32	7439-98-7	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Kansas City								
Alkalinity,Bicarbonate (CaCO3)	151	mg/L	20.0	1		03/26/22 10:10		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	20.0	1		03/26/22 10:10		
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Kansas City								
Total Dissolved Solids	2770	mg/L	66.7	1		03/23/22 17:17		
Iron, Ferrous								
Analytical Method: SM 3500-Fe B#4								
Pace Analytical Services - Kansas City								
Iron, Ferrous	<0.20	mg/L	0.20	1		03/28/22 10:30	15438-31-0	H6

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ANALYTICAL RESULTS

Project: LEC PERIMTER ASH POND WELLS CC

Pace Project No.: 60395394

Sample: MW-109-031622	Lab ID: 60395394017	Collected: 03/16/22 16:30	Received: 03/17/22 16:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
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		03/25/22 13:06		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		03/22/22 16:39	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City							
Chloride	356	mg/L	20.0	20		03/25/22 00:38	16887-00-6	
Fluoride	2.8	mg/L	0.20	1		03/25/22 00:24	16984-48-8	
Sulfate	1610	mg/L	200	200		03/25/22 13:21	14808-79-8	
5310C TOC	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Total Organic Carbon	4.4	mg/L	4.0	4		04/04/22 20:56	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	5.4	mg/L	1.0	1		04/07/22 23:20		C4

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ANALYTICAL RESULTS

Project: LEC PERIMTER ASH POND WELLS CC

Pace Project No.: 60395394

Sample: MW-110-031622	Lab ID: 60395394018	Collected: 03/16/22 17:30	Received: 03/17/22 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	0.051	mg/L	0.0050	1	03/25/22 10:07	03/28/22 21:55	7440-39-3	
Boron, Total Recoverable	3.1	mg/L	0.10	1	03/25/22 10:07	03/28/22 21:55	7440-42-8	
Calcium, Total Recoverable	326	mg/L	1.0	5	03/25/22 10:07	03/28/22 21:57	7440-70-2	
Iron, Total Recoverable	2.4	mg/L	0.050	1	03/25/22 10:07	03/28/22 21:55	7439-89-6	
Lead, Total Recoverable	<0.010	mg/L	0.010	1	03/25/22 10:07	03/28/22 21:55	7439-92-1	
Magnesium, Total Recoverable	97.6	mg/L	0.25	5	03/25/22 10:07	03/28/22 21:57	7439-95-4	
Manganese, Total Recoverable	0.92	mg/L	0.0050	1	03/25/22 10:07	03/28/22 21:55	7439-96-5	
Potassium, Total Recoverable	22.7	mg/L	0.50	1	03/25/22 10:07	03/28/22 21:55	7440-09-7	
Sodium, Total Recoverable	250	mg/L	0.50	1	03/25/22 10:07	03/28/22 21:55	7440-23-5	
Total Hardness by 2340B, Total Recoverable	1220	mg/L	2.5	5	03/25/22 10:07	03/28/22 21:57		
200.7 Metals, Dissolved								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Arsenic, Dissolved	<0.010	mg/L	0.010	1	03/28/22 09:40	03/28/22 19:42	7440-38-2	
Iron, Dissolved	0.68	mg/L	0.050	1	03/28/22 09:40	03/28/22 19:42	7439-89-6	
Manganese, Dissolved	0.42	mg/L	0.0050	1	03/28/22 09:40	03/28/22 19:42	7439-96-5	
Molybdenum, Dissolved	0.057	mg/L	0.020	1	03/28/22 09:40	03/28/22 19:42	7439-98-7	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Total Recoverable	0.063	mg/L	0.010	1	03/29/22 09:45	05/04/22 11:44	7439-93-2	
6010 MET ICP, Dissolved								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Dissolved	0.052	mg/L	0.010	1	03/29/22 13:22	05/04/22 11:32	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	0.0020	mg/L	0.0010	1	03/28/22 15:20	03/29/22 15:34	7440-38-2	
Cobalt, Total Recoverable	<0.0010	mg/L	0.0010	1	03/28/22 15:20	03/29/22 15:34	7440-48-4	
Molybdenum, Total Recoverable	0.075	mg/L	0.0010	1	03/28/22 15:20	03/29/22 15:34	7439-98-7	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Kansas City								
Alkalinity,Bicarbonate (CaCO3)	180	mg/L	20.0	1		03/26/22 10:15		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	20.0	1		03/26/22 10:15		
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Kansas City								
Total Dissolved Solids	2860	mg/L	66.7	1		03/23/22 17:17		
Iron, Ferrous								
Analytical Method: SM 3500-Fe B#4								
Pace Analytical Services - Kansas City								
Iron, Ferrous	<0.20	mg/L	0.20	1		03/28/22 10:31	15438-31-0	H6

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ANALYTICAL RESULTS

Project: LEC PERIMTER ASH POND WELLS CC

Pace Project No.: 60395394

Sample: MW-110-031622	Lab ID: 60395394018	Collected: 03/16/22 17:30	Received: 03/17/22 16:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
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		03/25/22 13:08		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		03/22/22 16:39	18496-25-8	
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0								
Pace Analytical Services - Kansas City								
Chloride	376	mg/L	20.0	20		03/25/22 01:06	16887-00-6	
Fluoride	3.5	mg/L	0.20	1		03/25/22 00:52	16984-48-8	
Sulfate	1540	mg/L	200	200		03/25/22 13:35	14808-79-8	
5310C TOC								
Analytical Method: SM 5310C								
Pace Analytical Services - Indianapolis								
Total Organic Carbon	4.9	mg/L	4.0	4		04/04/22 21:53	7440-44-0	
5310C Dissolved Organic Carbon								
Analytical Method: SM 5310C								
Pace Analytical Services - Indianapolis								
Dissolved Organic Carbon	5.0	mg/L	1.0	1		04/07/22 23:41		C4

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ANALYTICAL RESULTS

Project: LEC PERIMTER ASH POND WELLS CC

Pace Project No.: 60395394

Sample: MW-112-031522	Lab ID: 60395394019	Collected: 03/15/22 10:05	Received: 03/17/22 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	0.24	mg/L	0.0050	1	03/25/22 10:07	03/28/22 21:59	7440-39-3	
Boron, Total Recoverable	<0.10	mg/L	0.10	1	03/25/22 10:07	03/28/22 21:59	7440-42-8	
Calcium, Total Recoverable	113	mg/L	0.40	2	03/25/22 10:07	03/28/22 22:01	7440-70-2	
Iron, Total Recoverable	6.7	mg/L	0.050	1	03/25/22 10:07	03/28/22 21:59	7439-89-6	
Lead, Total Recoverable	<0.010	mg/L	0.010	1	03/25/22 10:07	03/28/22 21:59	7439-92-1	
Magnesium, Total Recoverable	14.9	mg/L	0.050	1	03/25/22 10:07	03/28/22 21:59	7439-95-4	
Manganese, Total Recoverable	0.94	mg/L	0.0050	1	03/25/22 10:07	03/28/22 21:59	7439-96-5	
Potassium, Total Recoverable	5.3	mg/L	0.50	1	03/25/22 10:07	03/28/22 21:59	7440-09-7	
Sodium, Total Recoverable	16.7	mg/L	0.50	1	03/25/22 10:07	03/28/22 21:59	7440-23-5	
Total Hardness by 2340B, Total Recoverable	344	mg/L	1.0	2	03/25/22 10:07	03/28/22 22:01		
200.7 Metals, Dissolved								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Arsenic, Dissolved	<0.010	mg/L	0.010	1	03/28/22 09:40	03/28/22 19:44	7440-38-2	
Iron, Dissolved	6.4	mg/L	0.050	1	03/28/22 09:40	03/28/22 19:44	7439-89-6	
Manganese, Dissolved	0.89	mg/L	0.0050	1	03/28/22 09:40	03/28/22 19:44	7439-96-5	
Molybdenum, Dissolved	<0.020	mg/L	0.020	1	03/28/22 09:40	03/28/22 19:44	7439-98-7	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Total Recoverable	<0.020	mg/L	0.020	2	03/29/22 09:45	03/31/22 18:31	7439-93-2	D3
6010 MET ICP, Dissolved								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Dissolved	<0.020	mg/L	0.020	2	03/29/22 13:22	03/31/22 18:15	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	0.0021	mg/L	0.0010	1	03/28/22 15:20	03/29/22 15:37	7440-38-2	
Cobalt, Total Recoverable	<0.0010	mg/L	0.0010	1	03/28/22 15:20	03/29/22 15:37	7440-48-4	
Molybdenum, Total Recoverable	0.010	mg/L	0.0010	1	03/28/22 15:20	03/29/22 15:37	7439-98-7	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Kansas City								
Alkalinity,Bicarbonate (CaCO3)	311	mg/L	20.0	1		03/24/22 20:14		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	20.0	1		03/24/22 20:14		
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Kansas City								
Total Dissolved Solids	600	mg/L	125	1		03/21/22 16:38		
Iron, Ferrous								
Analytical Method: SM 3500-Fe B#4								
Pace Analytical Services - Kansas City								
Iron, Ferrous	0.36	mg/L	0.20	1		03/28/22 09:39	15438-31-0	H6

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ANALYTICAL RESULTS

Project: LEC PERIMTER ASH POND WELLS CC

Pace Project No.: 60395394

Sample: MW-112-031522	Lab ID: 60395394019	Collected: 03/15/22 10:05	Received: 03/17/22 16:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
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		03/23/22 13:40		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		03/22/22 17:24	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City							
Chloride	27.1	mg/L	10.0	10		03/25/22 13:49	16887-00-6	
Fluoride	<0.20	mg/L	0.20	1		03/25/22 01:47	16984-48-8	
Sulfate	33.7	mg/L	10.0	10		03/25/22 13:49	14808-79-8	
5310C TOC	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Total Organic Carbon	1.9	mg/L	1.0	1		04/02/22 00:52	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	7.8	mg/L	1.0	1		04/07/22 17:31		C4

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ANALYTICAL RESULTS

Project: LEC PERIMTER ASH POND WELLS CC

Pace Project No.: 60395394

Sample: MW-113-031522	Lab ID: 60395394020	Collected: 03/15/22 11:25	Received: 03/17/22 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	0.049	mg/L	0.0050	1	03/25/22 10:07	03/28/22 22:04	7440-39-3	
Boron, Total Recoverable	4.1	mg/L	0.10	1	03/25/22 10:07	03/28/22 22:04	7440-42-8	
Calcium, Total Recoverable	171	mg/L	0.40	2	03/25/22 10:07	03/28/22 22:10	7440-70-2	
Iron, Total Recoverable	3.1	mg/L	0.050	1	03/25/22 10:07	03/28/22 22:04	7439-89-6	
Lead, Total Recoverable	<0.010	mg/L	0.010	1	03/25/22 10:07	03/28/22 22:04	7439-92-1	
Magnesium, Total Recoverable	62.4	mg/L	0.10	2	03/25/22 10:07	03/28/22 22:10	7439-95-4	
Manganese, Total Recoverable	0.58	mg/L	0.0050	1	03/25/22 10:07	03/28/22 22:04	7439-96-5	
Potassium, Total Recoverable	13.9	mg/L	0.50	1	03/25/22 10:07	03/28/22 22:04	7440-09-7	
Sodium, Total Recoverable	136	mg/L	0.50	1	03/25/22 10:07	03/28/22 22:04	7440-23-5	
Total Hardness by 2340B, Total Recoverable	684	mg/L	1.0	2	03/25/22 10:07	03/28/22 22:10		
200.7 Metals, Dissolved								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Arsenic, Dissolved	<0.010	mg/L	0.010	1	03/28/22 09:40	03/28/22 19:46	7440-38-2	
Iron, Dissolved	3.0	mg/L	0.050	1	03/28/22 09:40	03/28/22 19:46	7439-89-6	
Manganese, Dissolved	0.54	mg/L	0.0050	1	03/28/22 09:40	03/28/22 19:46	7439-96-5	
Molybdenum, Dissolved	0.14	mg/L	0.020	1	03/28/22 09:40	03/28/22 19:46	7439-98-7	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Total Recoverable	0.059	mg/L	0.030	3	03/29/22 09:45	03/31/22 18:39	7439-93-2	
6010 MET ICP, Dissolved								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Dissolved	0.057	mg/L	0.030	3	03/29/22 13:22	03/31/22 18:17	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	0.0024	mg/L	0.0010	1	03/28/22 15:20	03/29/22 15:40	7440-38-2	
Cobalt, Total Recoverable	<0.0010	mg/L	0.0010	1	03/28/22 15:20	03/29/22 15:40	7440-48-4	
Molybdenum, Total Recoverable	0.16	mg/L	0.0010	1	03/28/22 15:20	03/29/22 15:40	7439-98-7	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Kansas City								
Alkalinity,Bicarbonate (CaCO3)	294	mg/L	20.0	1		03/24/22 20:32		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	20.0	1		03/24/22 20:32		
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Kansas City								
Total Dissolved Solids	1430	mg/L	13.3	1		03/21/22 16:38		
Iron, Ferrous								
Analytical Method: SM 3500-Fe B#4								
Pace Analytical Services - Kansas City								
Iron, Ferrous	<0.20	mg/L	0.20	1		03/28/22 09:40	15438-31-0	H6

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ANALYTICAL RESULTS

Project: LEC PERIMTER ASH POND WELLS CC

Pace Project No.: 60395394

Sample: MW-113-031522	Lab ID: 60395394020	Collected: 03/15/22 11:25	Received: 03/17/22 16:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
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		03/24/22 09:58		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		03/22/22 17:24	18496-25-8	
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0								
Pace Analytical Services - Kansas City								
Chloride	103	mg/L	20.0	20		03/25/22 02:29	16887-00-6	
Fluoride	5.7	mg/L	0.20	1		03/25/22 02:15	16984-48-8	
Sulfate	515	mg/L	50.0	50		03/25/22 14:03	14808-79-8	
5310C TOC								
Analytical Method: SM 5310C								
Pace Analytical Services - Indianapolis								
Total Organic Carbon	2.6	mg/L	1.0	1		04/02/22 01:03	7440-44-0	
5310C Dissolved Organic Carbon								
Analytical Method: SM 5310C								
Pace Analytical Services - Indianapolis								
Dissolved Organic Carbon	4.3	mg/L	1.0	1		04/07/22 17:50		C4

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ANALYTICAL RESULTS

Project: LEC PERIMTER ASH POND WELLS CC

Pace Project No.: 60395394

Sample: LEC-CMA-DUP01-031622	Lab ID: 60395394021	Collected: 03/16/22 10:55	Received: 03/17/22 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	0.18	mg/L	0.0050	1	03/25/22 10:07	03/27/22 13:41	7440-39-3	
Boron, Total Recoverable	0.17	mg/L	0.10	1	03/25/22 10:07	03/27/22 13:41	7440-42-8	
Calcium, Total Recoverable	43.7	mg/L	0.40	2	03/25/22 10:07	03/28/22 22:31	7440-70-2	
Iron, Total Recoverable	3.4	mg/L	0.050	1	03/25/22 10:07	03/27/22 13:41	7439-89-6	
Lead, Total Recoverable	<0.010	mg/L	0.010	1	03/25/22 10:07	03/27/22 13:41	7439-92-1	
Magnesium, Total Recoverable	25.6	mg/L	0.050	1	03/25/22 10:07	03/27/22 13:41	7439-95-4	
Manganese, Total Recoverable	0.42	mg/L	0.0050	1	03/25/22 10:07	03/27/22 13:41	7439-96-5	
Potassium, Total Recoverable	6.6	mg/L	0.50	1	03/25/22 10:07	03/27/22 13:41	7440-09-7	
Sodium, Total Recoverable	14.4	mg/L	0.50	1	03/25/22 10:07	03/27/22 13:41	7440-23-5	
Total Hardness by 2340B, Total Recoverable	215	mg/L	1.0	2	03/25/22 10:07	03/28/22 22:31		
200.7 Metals, Dissolved								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Arsenic, Dissolved	<0.010	mg/L	0.010	1	03/28/22 09:40	03/28/22 19:49	7440-38-2	
Iron, Dissolved	3.3	mg/L	0.050	1	03/28/22 09:40	03/28/22 19:49	7439-89-6	
Manganese, Dissolved	0.52	mg/L	0.0050	1	03/28/22 09:40	03/28/22 19:49	7439-96-5	
Molybdenum, Dissolved	0.021	mg/L	0.020	1	03/28/22 09:40	03/28/22 19:49	7439-98-7	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Total Recoverable	<0.020	mg/L	0.020	2	03/29/22 12:21	03/31/22 15:49	7439-93-2	D3
6010 MET ICP, Dissolved								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Dissolved	<0.020	mg/L	0.020	2	03/29/22 13:22	03/31/22 16:48	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	0.0034	mg/L	0.0010	1	03/28/22 15:20	03/30/22 12:02	7440-38-2	
Cobalt, Total Recoverable	<0.0010	mg/L	0.0010	1	03/28/22 15:20	03/30/22 12:02	7440-48-4	
Molybdenum, Total Recoverable	0.023	mg/L	0.0010	1	03/28/22 15:20	03/30/22 12:02	7439-98-7	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Kansas City								
Alkalinity,Bicarbonate (CaCO3)	319	mg/L	20.0	1		03/26/22 10:33		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	20.0	1		03/26/22 10:33		
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Kansas City								
Total Dissolved Solids	488	mg/L	10.0	1		03/23/22 17:17		
Iron, Ferrous								
Analytical Method: SM 3500-Fe B#4								
Pace Analytical Services - Kansas City								
Iron, Ferrous	<0.20	mg/L	0.20	1		03/28/22 09:56	15438-31-0	H6

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ANALYTICAL RESULTS

Project: LEC PERIMTER ASH POND WELLS CC

Pace Project No.: 60395394

Sample: LEC-CMA-DUP01-031622	Lab ID: 60395394021	Collected: 03/16/22 10:55	Received: 03/17/22 16:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
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		03/24/22 15:07		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		03/22/22 16:39	18496-25-8	
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City								
Chloride	26.7	mg/L	5.0	5		03/25/22 14:17	16887-00-6	
Fluoride	0.61	mg/L	0.20	1		03/25/22 02:43	16984-48-8	
Sulfate	28.0	mg/L	5.0	5		03/25/22 14:17	14808-79-8	
5310C TOC								
Analytical Method: SM 5310C Pace Analytical Services - Indianapolis								
Total Organic Carbon	1.8	mg/L	1.0	1		04/02/22 01:13	7440-44-0	
5310C Dissolved Organic Carbon								
Analytical Method: SM 5310C Pace Analytical Services - Indianapolis								
Dissolved Organic Carbon	2.0	mg/L	1.0	1		04/08/22 03:20		C4

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LEC PERIMTER ASH POND WELLS CC

Pace Project No.: 60395394

Sample: LEC-CMA-DUP02-031722	Lab ID: 60395394022	Collected: 03/17/22 10:55	Received: 03/17/22 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	0.047	mg/L	0.0050	1	03/25/22 10:07	03/27/22 13:43	7440-39-3	
Boron, Total Recoverable	1.7	mg/L	0.10	1	03/25/22 10:07	03/27/22 13:43	7440-42-8	
Calcium, Total Recoverable	288	mg/L	1.0	5	03/25/22 10:07	03/28/22 22:38	7440-70-2	
Iron, Total Recoverable	3.8	mg/L	0.050	1	03/25/22 10:07	03/27/22 13:43	7439-89-6	
Lead, Total Recoverable	<0.010	mg/L	0.010	1	03/25/22 10:07	03/27/22 13:43	7439-92-1	
Magnesium, Total Recoverable	31.7	mg/L	0.050	1	03/25/22 10:07	03/27/22 13:43	7439-95-4	
Manganese, Total Recoverable	1.4	mg/L	0.0050	1	03/25/22 10:07	03/27/22 13:43	7439-96-5	
Potassium, Total Recoverable	50.9	mg/L	0.50	1	03/25/22 10:07	03/27/22 13:43	7440-09-7	
Sodium, Total Recoverable	162	mg/L	0.50	1	03/25/22 10:07	03/27/22 13:43	7440-23-5	
Total Hardness by 2340B, Total Recoverable	849	mg/L	2.5	5	03/25/22 10:07	03/28/22 22:38		
200.7 Metals, Dissolved								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Arsenic, Dissolved	<0.010	mg/L	0.010	1	03/28/22 09:40	03/28/22 19:51	7440-38-2	
Iron, Dissolved	<0.050	mg/L	0.050	1	03/28/22 09:40	03/28/22 19:51	7439-89-6	
Manganese, Dissolved	0.015	mg/L	0.0050	1	03/28/22 09:40	03/28/22 19:51	7439-96-5	
Molybdenum, Dissolved	0.029	mg/L	0.020	1	03/28/22 09:40	03/28/22 19:51	7439-98-7	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Total Recoverable	0.052	mg/L	0.010	1	03/29/22 12:21	05/04/22 11:46	7439-93-2	
6010 MET ICP, Dissolved								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Dissolved	0.043	mg/L	0.010	1	03/29/22 13:22	05/04/22 11:34	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	0.0039	mg/L	0.0010	1	03/28/22 15:20	03/30/22 12:07	7440-38-2	
Cobalt, Total Recoverable	<0.0010	mg/L	0.0010	1	03/28/22 15:20	03/30/22 12:07	7440-48-4	
Molybdenum, Total Recoverable	0.042	mg/L	0.0010	1	03/28/22 15:20	03/30/22 12:07	7439-98-7	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Kansas City								
Alkalinity,Bicarbonate (CaCO3)	451	mg/L	20.0	1		03/26/22 10:39		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	20.0	1		03/26/22 10:39		
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Kansas City								
Total Dissolved Solids	1640	mg/L	20.0	1		03/24/22 18:32		
Iron, Ferrous								
Analytical Method: SM 3500-Fe B#4								
Pace Analytical Services - Kansas City								
Iron, Ferrous	<0.20	mg/L	0.20	1		03/30/22 17:07	15438-31-0	H6

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LEC PERIMTER ASH POND WELLS CC

Pace Project No.: 60395394

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Sample: LEC-CMA-DUP02-031722 Lab ID: 60395394022 Collected: 03/17/22 10:55 Received: 03/17/22 16:00 Matrix: Water								
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		03/25/22 13:16		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		03/24/22 14:14	18496-25-8	
300.0 IC Anions 28 Days Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City								
Chloride	136	mg/L	20.0	20		03/25/22 03:24	16887-00-6	
Fluoride	0.42	mg/L	0.20	1		03/25/22 03:11	16984-48-8	
Sulfate	512	mg/L	50.0	50		03/25/22 14:31	14808-79-8	
5310C TOC Analytical Method: SM 5310C Pace Analytical Services - Indianapolis								
Total Organic Carbon	3.2	mg/L	1.0	1		04/02/22 01:25	7440-44-0	
5310C Dissolved Organic Carbon Analytical Method: SM 5310C Pace Analytical Services - Indianapolis								
Dissolved Organic Carbon	3.5	mg/L	1.0	1		04/08/22 04:57		C4

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ANALYTICAL RESULTS

Project: LEC PERIMTER ASH POND WELLS CC

Pace Project No.: 60395394

Sample: EB-031722	Lab ID: 60395394023	Collected: 03/17/22 13:00	Received: 03/17/22 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	<0.0050	mg/L	0.0050	1	03/25/22 10:07	03/27/22 13:45	7440-39-3	
Boron, Total Recoverable	<0.10	mg/L	0.10	1	03/25/22 10:07	03/27/22 13:45	7440-42-8	
Calcium, Total Recoverable	<0.20	mg/L	0.20	1	03/25/22 10:07	03/27/22 13:45	7440-70-2	
Iron, Total Recoverable	<0.050	mg/L	0.050	1	03/25/22 10:07	03/27/22 13:45	7439-89-6	
Lead, Total Recoverable	<0.010	mg/L	0.010	1	03/25/22 10:07	03/27/22 13:45	7439-92-1	
Magnesium, Total Recoverable	<0.050	mg/L	0.050	1	03/25/22 10:07	03/27/22 13:45	7439-95-4	
Manganese, Total Recoverable	<0.0050	mg/L	0.0050	1	03/25/22 10:07	03/27/22 13:45	7439-96-5	
Potassium, Total Recoverable	<0.50	mg/L	0.50	1	03/25/22 10:07	03/27/22 13:45	7440-09-7	
Sodium, Total Recoverable	<0.50	mg/L	0.50	1	03/25/22 10:07	03/27/22 13:45	7440-23-5	
Total Hardness by 2340B, Total Recoverable	<0.50	mg/L	0.50	1	03/25/22 10:07	03/27/22 13:45		
200.7 Metals, Dissolved								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Arsenic, Dissolved	<0.010	mg/L	0.010	1	03/28/22 09:40	03/28/22 19:53	7440-38-2	
Iron, Dissolved	<0.050	mg/L	0.050	1	03/28/22 09:40	03/28/22 19:53	7439-89-6	
Manganese, Dissolved	<0.0050	mg/L	0.0050	1	03/28/22 09:40	03/28/22 19:53	7439-96-5	
Molybdenum, Dissolved	<0.020	mg/L	0.020	1	03/28/22 09:40	03/28/22 19:53	7439-98-7	
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	03/29/22 12:21	03/31/22 12:58	7439-93-2	
6010 MET ICP, Dissolved								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Dissolved	<0.010	mg/L	0.010	1	03/29/22 13:22	03/31/22 18:22	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	03/28/22 15:20	03/30/22 12:13	7440-38-2	
Cobalt, Total Recoverable	<0.0010	mg/L	0.0010	1	03/28/22 15:20	03/30/22 12:13	7440-48-4	
Molybdenum, Total Recoverable	<0.0010	mg/L	0.0010	1	03/28/22 15:20	03/30/22 12:13	7439-98-7	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Kansas City								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	20.0	1		03/26/22 10:46		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	20.0	1		03/26/22 10:46		
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Kansas City								
Total Dissolved Solids	344	mg/L	5.0	1		03/24/22 18:32		
Iron, Ferrous								
Analytical Method: SM 3500-Fe B#4								
Pace Analytical Services - Kansas City								
Iron, Ferrous	<0.20	mg/L	0.20	1		03/31/22 10:13	15438-31-0	H6

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LEC PERIMTER ASH POND WELLS CC

Pace Project No.: 60395394

Sample: EB-031722	Lab ID: 60395394023	Collected: 03/17/22 13:00	Received: 03/17/22 16:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
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	1		03/28/22 14:13		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		03/24/22 14:15	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City							
Chloride	<1.0	mg/L	1.0	1		03/25/22 03:38	16887-00-6	
Fluoride	<0.20	mg/L	0.20	1		03/25/22 03:38	16984-48-8	
Sulfate	<1.0	mg/L	1.0	1		03/25/22 03:38	14808-79-8	
5310C TOC	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Total Organic Carbon	<1.0	mg/L	1.0	1		04/02/22 01:38	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	<1.0	mg/L	1.0	1		04/08/22 05:36		C4

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: LEC PERIMTER ASH POND WELLS CC

Pace Project No.: 60395394

QC Batch:	777648	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:	60395394001, 60395394002, 60395394003, 60395394004, 60395394005, 60395394006, 60395394007, 60395394008, 60395394009, 60395394010, 60395394011, 60395394012, 60395394013, 60395394014, 60395394015, 60395394016, 60395394017, 60395394018, 60395394019, 60395394020		

METHOD BLANK:	3102791	Matrix:	Water
Associated Lab Samples:	60395394001, 60395394002, 60395394003, 60395394004, 60395394005, 60395394006, 60395394007, 60395394008, 60395394009, 60395394010, 60395394011, 60395394012, 60395394013, 60395394014, 60395394015, 60395394016, 60395394017, 60395394018, 60395394019, 60395394020		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Barium	mg/L	<0.0050	0.0050	03/27/22 14:29	
Boron	mg/L	<0.10	0.10	03/27/22 14:29	
Calcium	mg/L	<0.20	0.20	03/27/22 14:29	
Hardness, Total(SM 2340B)	mg/L	<0.50	0.50	03/27/22 14:29	
Iron	mg/L	<0.050	0.050	03/27/22 14:29	
Lead	mg/L	<0.010	0.010	03/27/22 14:29	
Magnesium	mg/L	<0.050	0.050	03/27/22 14:29	
Manganese	mg/L	<0.0050	0.0050	03/27/22 14:29	
Potassium	mg/L	<0.50	0.50	03/27/22 14:29	
Sodium	mg/L	<0.50	0.50	03/27/22 14:29	

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	mg/L	1	1.0	102	85-115	
Boron	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	66.5	101	85-115	
Iron	mg/L	10	10	100	85-115	
Lead	mg/L	1	1.0	104	85-115	
Magnesium	mg/L	10	10.2	102	85-115	
Manganese	mg/L	1	1.0	100	85-115	
Potassium	mg/L	10	9.8	98	85-115	
Sodium	mg/L	10	10.3	103	85-115	

Parameter	Units	3102793		3102794		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Barium	mg/L	0.11	1	1	1.1	1.1	99	100	70-130	1	20
Boron	mg/L	0.57	1	1	1.5	1.5	95	98	70-130	2	20
Calcium	mg/L	156	10	10	165	162	89	55	70-130	2	20 M1
Hardness, Total(SM 2340B)	mg/L	496	66.2	66.2	554	547	87	76	70-130	1	20
Iron	mg/L	8.7	10	10	18.5	18.7	99	100	70-130	1	20

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QUALITY CONTROL DATA

Project: LEC PERIMTER ASH POND WELLS CC

Pace Project No.: 60395394

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3102793 3102794											
Parameter	Units	60395394001 Result	MS	MSD	MS	MSD	MS	MSD	% Rec	Max	Qual
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	
Lead	mg/L	<0.010	1	1	1.0	1.0	101	101	70-130	1	20
Magnesium	mg/L	25.8	10	10	34.4	34.7	86	89	70-130	1	20
Manganese	mg/L	1.6	1	1	2.5	2.6	97	100	70-130	1	20
Potassium	mg/L	6.2	10	10	16.2	16.5	101	103	70-130	2	20
Sodium	mg/L	40.8	10	10	50.7	50.8	99	100	70-130	0	20

MATRIX SPIKE SAMPLE: 3102795								
Parameter	Units	60395394010 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers	
Barium	mg/L		0.19	1	1.2	102	70-130	
Boron	mg/L		0.17	1	1.1	98	70-130	
Calcium	mg/L		102	10	109	66	70-130 M1	
Hardness, Total(SM 2340B)	mg/L		361	66.2	416	83	70-130	
Iron	mg/L		3.4	10	13.4	100	70-130	
Lead	mg/L		<0.010	1	1.0	103	70-130	
Magnesium	mg/L		25.7	10	34.9	92	70-130	
Manganese	mg/L		0.42	1	1.4	101	70-130	
Potassium	mg/L		6.7	10	16.8	102	70-130	
Sodium	mg/L		14.7	10	24.8	101	70-130	

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QUALITY CONTROL DATA

Project: LEC PERIMTER ASH POND WELLS CC

Pace Project No.: 60395394

QC Batch: 777650 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: 60395394021, 60395394022, 60395394023

METHOD BLANK: 3102797 Matrix: Water

Associated Lab Samples: 60395394021, 60395394022, 60395394023

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Barium	mg/L	<0.0050	0.0050	03/27/22 13:28	
Boron	mg/L	<0.10	0.10	03/27/22 13:28	
Calcium	mg/L	<0.20	0.20	03/27/22 13:28	
Hardness, Total(SM 2340B)	mg/L	<0.50	0.50	03/27/22 13:28	
Iron	mg/L	<0.050	0.050	03/27/22 13:28	
Lead	mg/L	<0.010	0.010	03/27/22 13:28	
Magnesium	mg/L	<0.050	0.050	03/27/22 13:28	
Manganese	mg/L	<0.0050	0.0050	03/27/22 13:28	
Potassium	mg/L	<0.50	0.50	03/27/22 13:28	
Sodium	mg/L	<0.50	0.50	03/27/22 13:28	

LABORATORY CONTROL SAMPLE: 3102798

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	mg/L	1	1.0	101	85-115	
Boron	mg/L	1	0.98	98	85-115	
Calcium	mg/L	10	10.3	103	85-115	
Hardness, Total(SM 2340B)	mg/L	66.2	68.6	104	85-115	
Iron	mg/L	10	10.3	103	85-115	
Lead	mg/L	1	1.0	102	85-115	
Magnesium	mg/L	10	10.4	104	85-115	
Manganese	mg/L	1	1.0	103	85-115	
Potassium	mg/L	10	9.8	98	85-115	
Sodium	mg/L	10	10.1	101	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3102799 3102800

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		60395298001 Result	Spike Conc.	Spike Conc.	MS Result								
Barium	mg/L	185 ug/L	1	1	1.2	1.2	98	97	70-130	1	20		
Boron	mg/L	625 ug/L	1	1	1.7	1.6	104	103	70-130	1	20		
Calcium	mg/L	199000 ug/L	10	10	217	217	181	175	70-130	0	20	M1	
Hardness, Total(SM 2340B)	mg/L	808000 ug/L	66.2	66.2	908	904	151	145	70-130	0	20		
Iron	mg/L	3090 ug/L	10	10	13.6	13.5	105	105	70-130	0	20		
Lead	mg/L	<10.0 ug/L	1	1	0.97	0.96	97	96	70-130	0	20		

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QUALITY CONTROL DATA

Project: LEC PERIMTER ASH POND WELLS CC

Pace Project No.: 60395394

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3102799 3102800											
Parameter	Units	60395298001 Result	MS	MSD	MS	MSD	MS	MSD	% Rec	Max	Qual
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	
Magnesium	mg/L	75600 ug/L	10	10	88.9	88.2	133	126	70-130	1	20 M1
Manganese	mg/L	93.3 ug/L	1	1	1.1	1.1	103	101	70-130	1	20
Potassium	mg/L	32700 ug/L	10	10	45.0	44.7	123	120	70-130	1	20
Sodium	mg/L	362000 ug/L	10	10	405	399	433	372	70-130	2	20 M1

MATRIX SPIKE SAMPLE: 3102801								
Parameter	Units	60395398005 Result	Spike	MS	MS	% Rec	Qualifiers	
			Conc.	Result	% Rec	Limits		
Barium	mg/L	0.039	1	1.0	98	70-130		
Boron	mg/L	2.8	1	3.7	95	70-130		
Calcium	mg/L	216	10	224	79	70-130		
Hardness, Total(SM 2340B)	mg/L		66.2	878	82	70-130		
Iron	mg/L		10	14.5	102	70-130		
Lead	mg/L	<0.010	1	0.95	95	70-130		
Magnesium	mg/L		10	77.4	84	70-130		
Manganese	mg/L		1	2.0	96	70-130		
Potassium	mg/L		10	42.3	105	70-130		
Sodium	mg/L		10	235	148	70-130	M1	

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QUALITY CONTROL DATA

Project: LEC PERIMTER ASH POND WELLS CC

Pace Project No.: 60395394

QC Batch:	778023	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:	60395394001, 60395394002, 60395394003, 60395394004, 60395394005, 60395394006, 60395394007, 60395394008, 60395394009, 60395394010, 60395394011, 60395394012, 60395394013, 60395394014, 60395394015		

METHOD BLANK:	3104161	Matrix:	Water
Associated Lab Samples:	60395394001, 60395394002, 60395394003, 60395394004, 60395394005, 60395394006, 60395394007, 60395394008, 60395394009, 60395394010, 60395394011, 60395394012, 60395394013, 60395394014, 60395394015		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic, Dissolved	mg/L	<0.010	0.010	03/28/22 18:30	
Iron, Dissolved	mg/L	<0.050	0.050	03/28/22 18:30	
Manganese, Dissolved	mg/L	<0.0050	0.0050	03/28/22 18:30	
Molybdenum, Dissolved	mg/L	<0.020	0.020	03/28/22 18:30	

LABORATORY CONTROL SAMPLE: 3104162						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic, Dissolved	mg/L	1	0.91	91	85-115	
Iron, Dissolved	mg/L	10	9.9	99	85-115	
Manganese, Dissolved	mg/L	1	0.99	99	85-115	
Molybdenum, Dissolved	mg/L	1	1.0	100	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3104163												3104164	
Parameter	Units	60395394001 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	<0.010	1	1	0.94	0.96	94	95	70-130	2	20		
Iron, Dissolved	mg/L	4.2	10	10	13.9	13.5	97	93	70-130	3	20		
Manganese, Dissolved	mg/L	1.1	1	1	2.1	2.0	96	92	70-130	2	20		
Molybdenum, Dissolved	mg/L	0.022	1	1	1.0	1.1	100	106	70-130	6	20		

MATRIX SPIKE SAMPLE: 3104165											
Parameter	Units	60395394010 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers				
Arsenic, Dissolved	mg/L	<0.010	1	0.94	94	70-130					
Iron, Dissolved	mg/L	3.2	10	12.3	90	70-130					
Manganese, Dissolved	mg/L	0.52	1	1.4	93	70-130					
Molybdenum, Dissolved	mg/L	0.020	1	1.1	105	70-130					

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QUALITY CONTROL DATA

Project: LEC PERIMTER ASH POND WELLS CC
Pace Project No.: 60395394

QC Batch: 778024 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: 60395394016, 60395394017, 60395394018, 60395394019, 60395394020, 60395394021, 60395394022, 60395394023

METHOD BLANK: 3104166 Matrix: Water
Associated Lab Samples: 60395394016, 60395394017, 60395394018, 60395394019, 60395394020, 60395394021, 60395394022, 60395394023

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic, Dissolved	mg/L	<0.010	0.010	03/28/22 19:24	
Iron, Dissolved	mg/L	<0.050	0.050	03/28/22 19:24	
Manganese, Dissolved	mg/L	<0.0050	0.0050	03/28/22 19:24	
Molybdenum, Dissolved	mg/L	<0.020	0.020	03/28/22 19:24	

LABORATORY CONTROL SAMPLE: 3104167

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic, Dissolved	mg/L	1	0.90	90	85-115	
Iron, Dissolved	mg/L	10	9.4	94	85-115	
Manganese, Dissolved	mg/L	1	0.95	95	85-115	
Molybdenum, Dissolved	mg/L	1	0.99	99	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3104168 3104169

Parameter	Units	60395394016		MS		MSD		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result						
Arsenic, Dissolved	mg/L	<0.010	1	1	0.92	0.93	92	93	70-130	2	20		
Iron, Dissolved	mg/L	0.57	10	10	9.8	9.6	93	90	70-130	2	20		
Manganese, Dissolved	mg/L	0.19	1	1	1.1	1.1	94	92	70-130	2	20		
Molybdenum, Dissolved	mg/L	0.029	1	1	1.0	1.1	99	105	70-130	6	20		

MATRIX SPIKE SAMPLE: 3104170

Parameter	Units	60395401002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic, Dissolved	mg/L	0.016	1	0.97	96	70-130	
Iron, Dissolved	mg/L	1.7	10	10.6	88	70-130	
Manganese, Dissolved	mg/L	0.44	1	1.3	91	70-130	
Molybdenum, Dissolved	mg/L	0.069	1	1.1	104	70-130	

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QUALITY CONTROL DATA

Project: LEC PERIMTER ASH POND WELLS CC

Pace Project No.: 60395394

QC Batch:	778135	Analysis Method:	EPA 200.8
QC Batch Method:	EPA 200.8	Analysis Description:	200.8 MET
		Laboratory:	Pace Analytical Services - Kansas City
Associated Lab Samples:	60395394001, 60395394002, 60395394003, 60395394004, 60395394005, 60395394006, 60395394007, 60395394008, 60395394009, 60395394010, 60395394011, 60395394012, 60395394013, 60395394014, 60395394015, 60395394016, 60395394017, 60395394018, 60395394019, 60395394020		

METHOD BLANK:	3104470	Matrix:	Water
Associated Lab Samples:	60395394001, 60395394002, 60395394003, 60395394004, 60395394005, 60395394006, 60395394007, 60395394008, 60395394009, 60395394010, 60395394011, 60395394012, 60395394013, 60395394014, 60395394015, 60395394016, 60395394017, 60395394018, 60395394019, 60395394020		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/L	<0.0010	0.0010	03/29/22 14:22	
Cobalt	mg/L	<0.0010	0.0010	03/29/22 14:22	
Molybdenum	mg/L	<0.0010	0.0010	03/29/22 14:22	

LABORATORY CONTROL SAMPLE: 3104471						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	0.04	0.040	101	85-115	
Cobalt	mg/L	0.04	0.041	103	85-115	
Molybdenum	mg/L	0.04	0.041	103	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3104472												3104473	
Parameter	Units	60395394001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
													Arsenic
Cobalt	mg/L	<0.0010	0.04	0.04	0.041	0.040	100	97	70-130	2	20		
Molybdenum	mg/L	0.024	0.04	0.04	0.066	0.064	104	99	70-130	3	20		

MATRIX SPIKE SAMPLE: 3104474		60395394011		Spike Conc.		MS Result		MS % Rec		% Rec Limits		Qualifiers	
Parameter	Units	Result	Result	Conc.	Conc.	Result	% Rec	Limit	Limit	Limit	Limit	Qualifiers	
Arsenic	mg/L	0.0089	0.04	0.04	0.049	101	70-130						
Cobalt	mg/L	<0.0010	0.04	0.04	0.040	100	70-130						
Molybdenum	mg/L	0.057	0.04	0.04	0.099	106	70-130						

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QUALITY CONTROL DATA

Project: LEC PERIMTER ASH POND WELLS CC

Pace Project No.: 60395394

QC Batch:	778136	Analysis Method:	EPA 200.8
QC Batch Method:	EPA 200.8	Analysis Description:	200.8 MET
		Laboratory:	Pace Analytical Services - Kansas City

Associated Lab Samples: 60395394021, 60395394022, 60395394023

METHOD BLANK: 3104475 Matrix: Water

Associated Lab Samples: 60395394021, 60395394022, 60395394023

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/L	<0.0010	0.0010	03/30/22 11:31	
Cobalt	mg/L	<0.0010	0.0010	03/30/22 11:31	
Molybdenum	mg/L	<0.0010	0.0010	03/30/22 11:31	

LABORATORY CONTROL SAMPLE: 3104476

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	0.04	0.041	103	85-115	
Cobalt	mg/L	0.04	0.041	102	85-115	
Molybdenum	mg/L	0.04	0.042	106	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3104477 3104478

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		60395298002 Result	Spike Conc.	Spike Conc.	Result								
Arsenic	mg/L	1.8 ug/L	0.04	0.04	0.043	0.043	102	103	70-130	0	20		
Cobalt	mg/L	<1.0 ug/L	0.04	0.04	0.042	0.041	103	103	70-130	0	20		
Molybdenum	mg/L	33.7 ug/L	0.04	0.04	0.078	0.078	112	110	70-130	1	20		

MATRIX SPIKE SAMPLE: 3104479

Parameter	Units	60395398006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	0.025	0.04	0.063	97	70-130	
Cobalt	mg/L	<0.0010	0.04	0.040	99	70-130	
Molybdenum	mg/L	0.044	0.04	0.088	108	70-130	

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QUALITY CONTROL DATA

Project: LEC PERIMTER ASH POND WELLS CC

Pace Project No.: 60395394

QC Batch: 778343	Analysis Method: EPA 6010
QC Batch Method: EPA 3010	Analysis Description: 6010 MET
	Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60395394021, 60395394022, 60395394023

METHOD BLANK: 3105142 Matrix: Water

Associated Lab Samples: 60395394021, 60395394022, 60395394023

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lithium	mg/L	<0.010	0.010	03/31/22 12:37	

LABORATORY CONTROL SAMPLE: 3105143

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lithium	mg/L	1	0.86	86	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3105144 3105145

Parameter	Units	3105144		3105145		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		60395394021 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Lithium	mg/L	<0.020	1	1	0.91	0.92	89	90	75-125	1	20

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QUALITY CONTROL DATA

Project: LEC PERIMTER ASH POND WELLS CC

Pace Project No.: 60395394

QC Batch: 781103	Analysis Method: EPA 6010
QC Batch Method: EPA 3010	Analysis Description: 6010 MET
	Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60395394001

METHOD BLANK: 3115238 Matrix: Water

Associated Lab Samples: 60395394001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lithium	mg/L	<0.010	0.010	04/13/22 15:47	

LABORATORY CONTROL SAMPLE: 3115239

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: 3115240 3115241

Parameter	Units	60396447001		3115241		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Lithium	mg/L	33.9 ug/L	1	1	1.0	1.0	100	101	75-125	0	20

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QUALITY CONTROL DATA

Project: LEC PERIMTER ASH POND WELLS CC

Pace Project No.: 60395394

QC Batch:	778390	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET Dissolved
		Laboratory:	Pace Analytical Services - Kansas City

Associated Lab Samples: 60395394001, 60395394002, 60395394003, 60395394004, 60395394005, 60395394006, 60395394007, 60395394008, 60395394009, 60395394010, 60395394011, 60395394012, 60395394013, 60395394014, 60395394015, 60395394016, 60395394017, 60395394018, 60395394019, 60395394020

METHOD BLANK: 3105345 Matrix: Water

Associated Lab Samples: 60395394001, 60395394002, 60395394003, 60395394004, 60395394005, 60395394006, 60395394007, 60395394008, 60395394009, 60395394010, 60395394011, 60395394012, 60395394013, 60395394014, 60395394015, 60395394016, 60395394017, 60395394018, 60395394019, 60395394020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lithium, Dissolved	mg/L	<0.010	0.010	03/31/22 14:34	

LABORATORY CONTROL SAMPLE: 3105346

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lithium, Dissolved	mg/L	1	0.87	87	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3105347 3105348

Parameter	Units	60395394002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lithium, Dissolved	mg/L	<0.020	1	1	<0.030	0.90	0	88	75-125		20	M1

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QUALITY CONTROL DATA

Project: LEC PERIMTER ASH POND WELLS CC

Pace Project No.: 60395394

QC Batch: 778391	Analysis Method: EPA 6010
QC Batch Method: EPA 3010	Analysis Description: 6010 MET Dissolved
	Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60395394021, 60395394022, 60395394023

METHOD BLANK: 3105349 Matrix: Water

Associated Lab Samples: 60395394021, 60395394022, 60395394023

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lithium, Dissolved	mg/L	<0.010	0.010	03/31/22 13:45	

LABORATORY CONTROL SAMPLE: 3105350

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lithium, Dissolved	mg/L	1	0.88	88	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3105351 3105352

Parameter	Units	3105351		3105352		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Lithium, Dissolved	mg/L	<0.020	1	1	0.95	0.94	93	92	75-125	1	20

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QUALITY CONTROL DATA

Project: LEC PERIMTER ASH POND WELLS CC

Pace Project No.: 60395394

QC Batch: 777561	Analysis Method: SM 2320B
QC Batch Method: SM 2320B	Analysis Description: 2320B Alkalinity
	Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60395394012, 60395394019

METHOD BLANK: 3102417 Matrix: Water

Associated Lab Samples: 60395394012, 60395394019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	20.0	03/24/22 17:27	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	20.0	03/24/22 17:27	

SAMPLE DUPLICATE: 3102420

Parameter	Units	60395206005 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity,Bicarbonate (CaCO3)	mg/L	630	632	0	10	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	ND		10	

SAMPLE DUPLICATE: 3102816

Parameter	Units	60395566001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity,Bicarbonate (CaCO3)	mg/L	98.1	98.4	0	10	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	ND		10	

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QUALITY CONTROL DATA

Project: LEC PERIMTER ASH POND WELLS CC

Pace Project No.: 60395394

QC Batch: 777562

Analysis Method: SM 2320B

QC Batch Method: SM 2320B

Analysis Description: 2320B Alkalinity

Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60395394001, 60395394020

METHOD BLANK: 3102421

Matrix: Water

Associated Lab Samples: 60395394001, 60395394020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	20.0	03/24/22 20:21	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	20.0	03/24/22 20:21	

SAMPLE DUPLICATE: 3102423

Parameter	Units	60395394020 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity,Bicarbonate (CaCO3)	mg/L	294	291	1	10	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	ND		10	

SAMPLE DUPLICATE: 3102864

Parameter	Units	60395262001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity,Bicarbonate (CaCO3)	mg/L	628	630	0	10	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	ND		10	

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QUALITY CONTROL DATA

Project: LEC PERIMTER ASH POND WELLS CC

Pace Project No.: 60395394

QC Batch:	777870	Analysis Method:	SM 2320B
QC Batch Method:	SM 2320B	Analysis Description:	2320B Alkalinity
		Laboratory:	Pace Analytical Services - Kansas City

Associated Lab Samples: 60395394002, 60395394003, 60395394004, 60395394005, 60395394006, 60395394007, 60395394008, 60395394009, 60395394010, 60395394011, 60395394013, 60395394014, 60395394015, 60395394016, 60395394017, 60395394018, 60395394021, 60395394022, 60395394023

METHOD BLANK: 3103519 Matrix: Water

Associated Lab Samples: 60395394002, 60395394003, 60395394004, 60395394005, 60395394006, 60395394007, 60395394008, 60395394009, 60395394010, 60395394011, 60395394013, 60395394014, 60395394015, 60395394016, 60395394017, 60395394018, 60395394021, 60395394022, 60395394023

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	20.0	03/25/22 16:57	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	20.0	03/25/22 16:57	

SAMPLE DUPLICATE: 3103521

Parameter	Units	60395394002 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity,Bicarbonate (CaCO3)	mg/L	448	450	1	10	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	ND		10	

SAMPLE DUPLICATE: 3103522

Parameter	Units	60395394013 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity,Bicarbonate (CaCO3)	mg/L	415	419	1	10	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	ND		10	

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QUALITY CONTROL DATA

Project: LEC PERIMTER ASH POND WELLS CC

Pace Project No.: 60395394

QC Batch: 776850	Analysis Method: SM 2540C
QC Batch Method: SM 2540C	Analysis Description: 2540C Total Dissolved Solids
	Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60395394012, 60395394019, 60395394020

METHOD BLANK: 3099914 Matrix: Water

Associated Lab Samples: 60395394012, 60395394019, 60395394020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<5.0	5.0	03/21/22 16:36	

LABORATORY CONTROL SAMPLE: 3099915

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	1000	979	98	80-120	

SAMPLE DUPLICATE: 3099916

Parameter	Units	60395176007 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1630	1640	0	10	

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QUALITY CONTROL DATA

Project: LEC PERIMTER ASH POND WELLS CC

Pace Project No.: 60395394

QC Batch: 777122

Analysis Method: SM 2540C

QC Batch Method: SM 2540C

Analysis Description: 2540C Total Dissolved Solids

Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60395394001, 60395394002, 60395394005, 60395394007, 60395394008, 60395394010, 60395394011, 60395394014, 60395394015

METHOD BLANK: 3100960

Matrix: Water

Associated Lab Samples: 60395394001, 60395394002, 60395394005, 60395394007, 60395394008, 60395394010, 60395394011, 60395394014, 60395394015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	16.5	5.0	03/23/22 17:14	

LABORATORY CONTROL SAMPLE: 3100961

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	1000	929	93	80-120	

SAMPLE DUPLICATE: 3100962

Parameter	Units	60395206003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1050	1080	3	10	

SAMPLE DUPLICATE: 3100963

Parameter	Units	60395206005 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	836	705	17	10 D6	

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QUALITY CONTROL DATA

Project: LEC PERIMTER ASH POND WELLS CC

Pace Project No.: 60395394

QC Batch:	777123	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Kansas City

Associated Lab Samples: 60395394016, 60395394017, 60395394018, 60395394021

METHOD BLANK: 3100964 Matrix: Water

Associated Lab Samples: 60395394016, 60395394017, 60395394018, 60395394021

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<5.0	5.0	03/23/22 17:17	

LABORATORY CONTROL SAMPLE: 3100965

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	1000	976	98	80-120	

SAMPLE DUPLICATE: 3100966

Parameter	Units	60395394016 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	482	474	2	10	

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QUALITY CONTROL DATA

Project: LEC PERIMTER ASH POND WELLS CC

Pace Project No.: 60395394

QC Batch: 777585

Analysis Method: SM 2540C

QC Batch Method: SM 2540C

Analysis Description: 2540C Total Dissolved Solids

Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60395394003, 60395394004, 60395394006, 60395394009, 60395394013, 60395394022, 60395394023

METHOD BLANK: 3102581

Matrix: Water

Associated Lab Samples: 60395394003, 60395394004, 60395394006, 60395394009, 60395394013, 60395394022, 60395394023

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<5.0	5.0	03/24/22 18:31	

LABORATORY CONTROL SAMPLE: 3102582

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	1000	995	100	80-120	

SAMPLE DUPLICATE: 3102585

Parameter	Units	60395342005 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	952	865	10	10	

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QUALITY CONTROL DATA

Project: LEC PERIMTER ASH POND WELLS CC

Pace Project No.: 60395394

QC Batch: 777952

Analysis Method: SM 3500-Fe B#4

QC Batch Method: SM 3500-Fe B#4

Analysis Description: Iron, Ferrous

Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60395394001, 60395394005, 60395394012, 60395394019, 60395394020, 60395394021

METHOD BLANK: 3104011

Matrix: Water

Associated Lab Samples: 60395394001, 60395394005, 60395394012, 60395394019, 60395394020, 60395394021

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron, Ferrous	mg/L	<0.20	0.20	03/28/22 09:38	H6

LABORATORY CONTROL SAMPLE: 3104012

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Ferrous	mg/L	2	1.9	96	90-110	H6

SAMPLE DUPLICATE: 3104013

Parameter	Units	60395394019 Result	Dup Result	RPD	Max RPD	Qualifiers
Iron, Ferrous	mg/L	0.36	0.36	1	20	H6

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QUALITY CONTROL DATA

Project: LEC PERIMTER ASH POND WELLS CC

Pace Project No.: 60395394

QC Batch: 777953 Analysis Method: SM 3500-Fe B#4
 QC Batch Method: SM 3500-Fe B#4 Analysis Description: Iron, Ferrous
 Laboratory: Pace Analytical Services - Kansas City
 Associated Lab Samples: 60395394002, 60395394004, 60395394007, 60395394008, 60395394010, 60395394011, 60395394014, 60395394015, 60395394016, 60395394017, 60395394018

METHOD BLANK: 3104014 Matrix: Water
 Associated Lab Samples: 60395394002, 60395394004, 60395394007, 60395394008, 60395394010, 60395394011, 60395394014, 60395394015, 60395394016, 60395394017, 60395394018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron, Ferrous	mg/L	<0.20	0.20	03/28/22 09:57	H6

LABORATORY CONTROL SAMPLE: 3104015

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Ferrous	mg/L	2	1.9	96	90-110	H6

SAMPLE DUPLICATE: 3104016

Parameter	Units	60395357004 Result	Dup Result	RPD	Max RPD	Qualifiers
Iron, Ferrous	mg/L	ND	<0.20		20	H6

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QUALITY CONTROL DATA

Project: LEC PERIMTER ASH POND WELLS CC

Pace Project No.: 60395394

QC Batch: 778712	Analysis Method: SM 3500-Fe B#4
QC Batch Method: SM 3500-Fe B#4	Analysis Description: Iron, Ferrous
	Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60395394003, 60395394009, 60395394022

METHOD BLANK: 3106506 Matrix: Water

Associated Lab Samples: 60395394003, 60395394009, 60395394022

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron, Ferrous	mg/L	<0.20	0.20	03/30/22 17:06	H6

LABORATORY CONTROL SAMPLE: 3106507

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Ferrous	mg/L	2	2.1	107	90-110	H6

SAMPLE DUPLICATE: 3106508

Parameter	Units	60395394022 Result	Dup Result	RPD	Max RPD	Qualifiers
Iron, Ferrous	mg/L	<0.20	<0.20		20	H6

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QUALITY CONTROL DATA

Project: LEC PERIMTER ASH POND WELLS CC

Pace Project No.: 60395394

QC Batch:	778799	Analysis Method:	SM 3500-Fe B#4
QC Batch Method:	SM 3500-Fe B#4	Analysis Description:	Iron, Ferrous
		Laboratory:	Pace Analytical Services - Kansas City

Associated Lab Samples: 60395394006, 60395394013, 60395394023

METHOD BLANK: 3106730 Matrix: Water

Associated Lab Samples: 60395394006, 60395394013, 60395394023

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron, Ferrous	mg/L	<0.20	0.20	03/31/22 10:10	H6

LABORATORY CONTROL SAMPLE: 3106731

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Ferrous	mg/L	2	1.9	97	90-110	H6

SAMPLE DUPLICATE: 3106732

Parameter	Units	60395532006 Result	Dup Result	RPD	Max RPD	Qualifiers
Iron, Ferrous	mg/L	22.0	22.1	0	20	H6

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QUALITY CONTROL DATA

Project: LEC PERIMTER ASH POND WELLS CC

Pace Project No.: 60395394

QC Batch: 777233

Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B

Analysis Description: 4500H+B pH

Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60395394019

SAMPLE DUPLICATE: 3101235

Parameter	Units	60395027001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	9.2	9.2	0	5	H6

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QUALITY CONTROL DATA

Project: LEC PERIMTER ASH POND WELLS CC

Pace Project No.: 60395394

QC Batch: 777234

Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B

Analysis Description: 4500H+B pH

Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60395394012, 60395394020

SAMPLE DUPLICATE: 3101236

Parameter	Units	60395291006 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.5	7.3	3	5	H6

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QUALITY CONTROL DATA

Project: LEC PERIMTER ASH POND WELLS CC

Pace Project No.: 60395394

QC Batch:	777330	Analysis Method:	SM 4500-H+B
QC Batch Method:	SM 4500-H+B	Analysis Description:	4500H+B pH
		Laboratory:	Pace Analytical Services - Kansas City

Associated Lab Samples: 60395394001, 60395394002, 60395394005, 60395394010, 60395394011, 60395394015, 60395394016, 60395394021

SAMPLE DUPLICATE: 3102806

Parameter	Units	60395357004 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	6.7	6.6	0	5	H6

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QUALITY CONTROL DATA

Project: LEC PERIMTER ASH POND WELLS CC

Pace Project No.: 60395394

QC Batch:	777726	Analysis Method:	SM 4500-H+B
QC Batch Method:	SM 4500-H+B	Analysis Description:	4500H+B pH
		Laboratory:	Pace Analytical Services - Kansas City

Associated Lab Samples: 60395394004, 60395394006, 60395394007, 60395394008, 60395394014, 60395394017, 60395394018, 60395394022

SAMPLE DUPLICATE: 3103030

Parameter	Units	60395357005 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	6.8	7.0	1	5	H6

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QUALITY CONTROL DATA

Project: LEC PERIMTER ASH POND WELLS CC

Pace Project No.: 60395394

QC Batch: 778037

Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B

Analysis Description: 4500H+B pH

Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60395394003, 60395394009, 60395394013, 60395394023

SAMPLE DUPLICATE: 3104184

Parameter	Units	60395834003 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	8.2	8.2	0	5	H6

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QUALITY CONTROL DATA

Project: LEC PERIMTER ASH POND WELLS CC

Pace Project No.: 60395394

QC Batch: 776933	Analysis Method: SM 4500-S-2 D
QC Batch Method: SM 4500-S-2 D	Analysis Description: 4500S2D Sulfide, Total
	Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60395394012, 60395394019, 60395394020

METHOD BLANK: 3100228 Matrix: Water

Associated Lab Samples: 60395394012, 60395394019, 60395394020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide, Total	mg/L	<0.050	0.050	03/22/22 16:40	

LABORATORY CONTROL SAMPLE: 3100229

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	0.5	0.52	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3100230 3100231

Parameter	Units	60395394012		3100231		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.						
Sulfide, Total	mg/L	<0.050	0.5	0.5	0.27	0.27	54	54	75-125	0	20 M1

SAMPLE DUPLICATE: 3100232

Parameter	Units	60395394019 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	<0.050	<0.050		20	

SAMPLE DUPLICATE: 3100233

Parameter	Units	60395432001 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	ND	<0.050		20	

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QUALITY CONTROL DATA

Project: LEC PERIMTER ASH POND WELLS CC
Pace Project No.: 60395394

QC Batch: 776937 Analysis Method: SM 4500-S-2 D
QC Batch Method: SM 4500-S-2 D Analysis Description: 4500S2D Sulfide, Total
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60395394001, 60395394002, 60395394005, 60395394007, 60395394008, 60395394010, 60395394011, 60395394014, 60395394015, 60395394016, 60395394017, 60395394018, 60395394021

METHOD BLANK: 3100236 Matrix: Water
Associated Lab Samples: 60395394001, 60395394002, 60395394005, 60395394007, 60395394008, 60395394010, 60395394011, 60395394014, 60395394015, 60395394016, 60395394017, 60395394018, 60395394021

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide, Total	mg/L	<0.050	0.050	03/22/22 16:11	

LABORATORY CONTROL SAMPLE: 3100237

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	0.5	0.51	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3100238 3100239

Parameter	Units	60395337001 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	0.27	0.27	54	54	75-125	0	20	M1

SAMPLE DUPLICATE: 3100240

Parameter	Units	60395337002 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	ND	<0.050		20	

SAMPLE DUPLICATE: 3100241

Parameter	Units	60395394010 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	<0.050	<0.050		20	

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QUALITY CONTROL DATA

Project: LEC PERIMTER ASH POND WELLS CC

Pace Project No.: 60395394

QC Batch: 777331

Analysis Method: SM 4500-S-2 D

QC Batch Method: SM 4500-S-2 D

Analysis Description: 4500S2D Sulfide, Total

Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60395394003, 60395394004

METHOD BLANK: 3101606

Matrix: Water

Associated Lab Samples: 60395394003, 60395394004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide, Total	mg/L	<0.050	0.050	03/24/22 11:28	

LABORATORY CONTROL SAMPLE: 3101607

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	0.5	0.52	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3101608 3101609

Parameter	Units	60395561001		60395561002		60395560003		% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS Result	MSD Result				
Sulfide, Total	mg/L	ND	0.5	0.5	0.24	0.24	40	40	75-125	0	20 H1,M1

SAMPLE DUPLICATE: 3101610

Parameter	Units	60395561002 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	0.11	0.11	1	20	H1

SAMPLE DUPLICATE: 3101611

Parameter	Units	60395560003 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	0.14	0.090	45	20	D6,H1

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QUALITY CONTROL DATA

Project: LEC PERIMTER ASH POND WELLS CC

Pace Project No.: 60395394

QC Batch:	777390	Analysis Method:	SM 4500-S-2 D
QC Batch Method:	SM 4500-S-2 D	Analysis Description:	4500S2D Sulfide, Total
		Laboratory:	Pace Analytical Services - Kansas City

Associated Lab Samples: 60395394006, 60395394009, 60395394013, 60395394022, 60395394023

METHOD BLANK: 3101775 Matrix: Water

Associated Lab Samples: 60395394006, 60395394009, 60395394013, 60395394022, 60395394023

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide, Total	mg/L	<0.050	0.050	03/24/22 11:44	

LABORATORY CONTROL SAMPLE: 3101776

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	0.5	0.52	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3101777 3101778

Parameter	Units	60395532006		3101777		3101778		% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MSD Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result					MS % Rec
Sulfide, Total	mg/L	0.026U	0.026U	0.5	0.5	0.22	0.22	45	45	75-125	0	20 M1

SAMPLE DUPLICATE: 3101779

Parameter	Units	60395532006 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	0.026U	<0.050		20	

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QUALITY CONTROL DATA

Project: LEC PERIMTER ASH POND WELLS CC

Pace Project No.: 60395394

QC Batch:	777261	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: 60395394005, 60395394006, 60395394007, 60395394008, 60395394009, 60395394010, 60395394011, 60395394012, 60395394013, 60395394014, 60395394015, 60395394016, 60395394017, 60395394018, 60395394019, 60395394020, 60395394021, 60395394022, 60395394023

METHOD BLANK: 3101341 Matrix: Water

Associated Lab Samples: 60395394005, 60395394006, 60395394007, 60395394008, 60395394009, 60395394010, 60395394011, 60395394012, 60395394013, 60395394014, 60395394015, 60395394016, 60395394017, 60395394018, 60395394019, 60395394020, 60395394021, 60395394022, 60395394023

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<1.0	1.0	03/24/22 15:38	
Fluoride	mg/L	<0.20	0.20	03/24/22 15:38	
Sulfate	mg/L	<1.0	1.0	03/24/22 15:38	

METHOD BLANK: 3104266 Matrix: Water

Associated Lab Samples: 60395394005, 60395394006, 60395394007, 60395394008, 60395394009, 60395394010, 60395394011, 60395394012, 60395394013, 60395394014, 60395394015, 60395394016, 60395394017, 60395394018, 60395394019, 60395394020, 60395394021, 60395394022, 60395394023

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<1.0	1.0	03/25/22 08:45	
Fluoride	mg/L	<0.20	0.20	03/25/22 08:45	
Sulfate	mg/L	<1.0	1.0	03/25/22 08:45	

LABORATORY CONTROL SAMPLE: 3101342

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.5	91	90-110	
Fluoride	mg/L	2.5	2.7	107	90-110	
Sulfate	mg/L	5	4.9	99	90-110	

LABORATORY CONTROL SAMPLE: 3104267

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.6	91	90-110	
Fluoride	mg/L	2.5	2.6	105	90-110	
Sulfate	mg/L	5	4.9	98	90-110	

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QUALITY CONTROL DATA

Project: LEC PERIMTER ASH POND WELLS CC

Pace Project No.: 60395394

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3101343												3101344	
Parameter	Units	60395394005 Result	MS	MSD	MS	MSD	MS	MSD	% Rec	% Rec Limits	Max RPD	Qual	
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
Chloride	mg/L	18.4	5	5	23.1	23.2	93	95	80-120	0	15	E	
Fluoride	mg/L	<0.20	2.5	2.5	2.6	2.7	105	107	80-120	2	15		
Sulfate	mg/L	402	500	500	700	710	60	62	80-120	1	15	M1	

MATRIX SPIKE SAMPLE: 3101345									
Parameter	Units	60395394014 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers		
Chloride	mg/L	1.7	5	5.4	75	80-120	M1		
Fluoride	mg/L	0.26	2.5	2.7	96	80-120			
Sulfate	mg/L	4.0	5	8.2	85	80-120			

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QUALITY CONTROL DATA

Project: LEC PERIMTER ASH POND WELLS CC

Pace Project No.: 60395394

QC Batch: 777597 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: 60395394001, 60395394002, 60395394003, 60395394004

METHOD BLANK: 3102612 Matrix: Water
 Associated Lab Samples: 60395394001, 60395394002, 60395394003, 60395394004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<1.0	1.0	03/25/22 15:26	
Fluoride	mg/L	<0.20	0.20	03/25/22 15:26	
Sulfate	mg/L	<1.0	1.0	03/25/22 15:26	

METHOD BLANK: 3104275 Matrix: Water
 Associated Lab Samples: 60395394001, 60395394002, 60395394003, 60395394004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<1.0	1.0	03/26/22 08:51	
Fluoride	mg/L	<0.20	0.20	03/26/22 08:51	
Sulfate	mg/L	<1.0	1.0	03/26/22 08:51	

LABORATORY CONTROL SAMPLE: 3102613

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	2.6	103	90-110	
Sulfate	mg/L	5	5.1	103	90-110	

LABORATORY CONTROL SAMPLE: 3104276

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.8	96	90-110	
Fluoride	mg/L	2.5	2.5	102	90-110	
Sulfate	mg/L	5	4.9	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3102616 3102614

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		60395357004 Result	Spike Conc.	Spike Conc.	Result						
Chloride	mg/L	29.4	50	100	96.5	134	134	105	80-120	33	15 M1
Fluoride	mg/L	ND	25	50	45.4	70.6	182	141	80-120	43	15 M1
Sulfate	mg/L	128	50	100	201	250	146	122	80-120	22	15 E,M1

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QUALITY CONTROL DATA

Project: LEC PERIMTER ASH POND WELLS CC

Pace Project No.: 60395394

SAMPLE DUPLICATE: 3102615

Parameter	Units	60395357004 Result	Dup Result	RPD	Max RPD	Qualifiers
Chloride	mg/L	29.4	28.7	3	15	
Fluoride	mg/L	ND	<2.0		15	
Sulfate	mg/L	128	125	2	15	

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QUALITY CONTROL DATA

Project: LEC PERIMTER ASH POND WELLS CC
Pace Project No.: 60395394

QC Batch: 669283 Analysis Method: SM 5310C
QC Batch Method: SM 5310C Analysis Description: 5310C Total Organic Carbon
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 60395394001, 60395394002, 60395394003, 60395394004, 60395394005, 60395394006, 60395394007, 60395394008, 60395394009, 60395394010, 60395394011, 60395394012, 60395394013, 60395394014, 60395394015, 60395394017

METHOD BLANK: 3081939 Matrix: Water
Associated Lab Samples: 60395394001, 60395394002, 60395394003, 60395394004, 60395394005, 60395394006, 60395394007, 60395394008, 60395394009, 60395394010, 60395394011, 60395394012, 60395394013, 60395394014, 60395394015, 60395394017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	<1.0	1.0	04/01/22 17:13	

LABORATORY CONTROL SAMPLE: 3081940

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	10	10.2	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3081941 3081942

Parameter	Units	60395394002 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	1.4	10	10	11.3	11.0	99	96	80-120	3	20	

MATRIX SPIKE SAMPLE: 3081943

Parameter	Units	60395298001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	14.3	40	58.3	110	80-120	

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QUALITY CONTROL DATA

Project: LEC PERIMTER ASH POND WELLS CC

Pace Project No.: 60395394

QC Batch:	669284	Analysis Method:	SM 5310C
QC Batch Method:	SM 5310C	Analysis Description:	5310C Total Organic Carbon
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 60395394016, 60395394018, 60395394019, 60395394020, 60395394021, 60395394022, 60395394023

METHOD BLANK: 3081945 Matrix: Water
Associated Lab Samples: 60395394016, 60395394018, 60395394019, 60395394020, 60395394021, 60395394022, 60395394023

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	<1.0	1.0	04/01/22 23:22	

LABORATORY CONTROL SAMPLE: 3081946

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	10	9.8	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3081947 3081948

Parameter	Units	60395394016 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	2.3	10	10	12.4	12.2	100	98	80-120	2	20	

MATRIX SPIKE SAMPLE: 3081949

Parameter	Units	50312169001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	ND	10	10.4	98	80-120	

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QUALITY CONTROL DATA

Project: LEC PERIMTER ASH POND WELLS CC
Pace Project No.: 60395394

QC Batch:	670094	Analysis Method:	SM 5310C
QC Batch Method:	SM 5310C	Analysis Description:	5310C Dissolved Organic Carbon
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 60395394001, 60395394002, 60395394003, 60395394004, 60395394005, 60395394006, 60395394007, 60395394010, 60395394011, 60395394012, 60395394013, 60395394014, 60395394015, 60395394016, 60395394017, 60395394018, 60395394019, 60395394020

METHOD BLANK: 3085565 Matrix: Water
Associated Lab Samples: 60395394001, 60395394002, 60395394003, 60395394004, 60395394005, 60395394006, 60395394007, 60395394010, 60395394011, 60395394012, 60395394013, 60395394014, 60395394015, 60395394016, 60395394017, 60395394018, 60395394019, 60395394020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dissolved Organic Carbon	mg/L	<1.0	1.0	04/07/22 16:32	

LABORATORY CONTROL SAMPLE: 3085566

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	10	10.0	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3085567 3085568

Parameter	Units	60395394001 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	2.1	10	10	12.1	12.0	100	100	80-120	1	20	

MATRIX SPIKE SAMPLE: 3085569

Parameter	Units	60395394002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	2.7	10	12.7	100	80-120	

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QUALITY CONTROL DATA

Project: LEC PERIMTER ASH POND WELLS CC

Pace Project No.: 60395394

QC Batch: 670095 Analysis Method: SM 5310C
 QC Batch Method: SM 5310C Analysis Description: 5310C Dissolved Organic Carbon
 Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 60395394009, 60395394021, 60395394022, 60395394023

METHOD BLANK: 3085570 Matrix: Water
 Associated Lab Samples: 60395394009, 60395394021, 60395394022, 60395394023

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dissolved Organic Carbon	mg/L	<1.0	1.0	04/08/22 02:41	

LABORATORY CONTROL SAMPLE: 3085571

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	10	10.0	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3085572 3085573

Parameter	Units	60395394021		3085573		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result							
Dissolved Organic Carbon	mg/L	2.0	10	10	11.9	12.0	99	100	80-120	1	20	C4

MATRIX SPIKE SAMPLE: 3085574

Parameter	Units	60396253002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	8.4	10	18.7	104	80-120	

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QUALITY CONTROL DATA

Project: LEC PERIMTER ASH POND WELLS CC

Pace Project No.: 60395394

QC Batch: 670602	Analysis Method: SM 5310C
QC Batch Method: SM 5310C	Analysis Description: 5310C Dissolved Organic Carbon
	Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 60395394008

METHOD BLANK: 3088212 Matrix: Water

Associated Lab Samples: 60395394008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dissolved Organic Carbon	mg/L	<1.0	1.0	04/11/22 18:31	

LABORATORY CONTROL SAMPLE: 3088213

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	10	9.8	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3088214 3088215

Parameter	Units	50312584002 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	1.3	10	10	11.4	11.1	100	98	80-120	2	20	

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QUALIFIERS

Project: LEC PERIMTER ASH POND WELLS CC

Pace Project No.: 60395394

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

C4 Sample container did not meet EPA or method requirements.

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.

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.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: LEC PERIMTER ASH POND WELLS CC

Pace Project No.: 60395394

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60395394001	MW-A-032622	EPA 200.7	777648	EPA 200.7	777848
60395394002	MW-B-031622	EPA 200.7	777648	EPA 200.7	777848
60395394003	MW-C-031722	EPA 200.7	777648	EPA 200.7	777848
60395394004	MW-D-031722	EPA 200.7	777648	EPA 200.7	777848
60395394005	MW-G-031622	EPA 200.7	777648	EPA 200.7	777848
60395394006	MW-M-031722	EPA 200.7	777648	EPA 200.7	777848
60395394007	MW-N-031622	EPA 200.7	777648	EPA 200.7	777848
60395394008	MW-O-031622	EPA 200.7	777648	EPA 200.7	777848
60395394009	MW-P-031722	EPA 200.7	777648	EPA 200.7	777848
60395394010	MW-101-031622	EPA 200.7	777648	EPA 200.7	777848
60395394011	MW-102-031622	EPA 200.7	777648	EPA 200.7	777848
60395394012	MW-103-031522	EPA 200.7	777648	EPA 200.7	777848
60395394013	MW-104-031722	EPA 200.7	777648	EPA 200.7	777848
60395394014	MW-106-031622	EPA 200.7	777648	EPA 200.7	777848
60395394015	MW-107-031622	EPA 200.7	777648	EPA 200.7	777848
60395394016	MW-108-031622	EPA 200.7	777648	EPA 200.7	777848
60395394017	MW-109-031622	EPA 200.7	777648	EPA 200.7	777848
60395394018	MW-110-031622	EPA 200.7	777648	EPA 200.7	777848
60395394019	MW-112-031522	EPA 200.7	777648	EPA 200.7	777848
60395394020	MW-113-031522	EPA 200.7	777648	EPA 200.7	777848
60395394021	LEC-CMA-DUP01-031622	EPA 200.7	777650	EPA 200.7	777847
60395394022	LEC-CMA-DUP02-031722	EPA 200.7	777650	EPA 200.7	777847
60395394023	EB-031722	EPA 200.7	777650	EPA 200.7	777847
60395394001	MW-A-032622	EPA 200.7	778023	EPA 200.7	778125
60395394002	MW-B-031622	EPA 200.7	778023	EPA 200.7	778125
60395394003	MW-C-031722	EPA 200.7	778023	EPA 200.7	778125
60395394004	MW-D-031722	EPA 200.7	778023	EPA 200.7	778125
60395394005	MW-G-031622	EPA 200.7	778023	EPA 200.7	778125
60395394006	MW-M-031722	EPA 200.7	778023	EPA 200.7	778125
60395394007	MW-N-031622	EPA 200.7	778023	EPA 200.7	778125
60395394008	MW-O-031622	EPA 200.7	778023	EPA 200.7	778125
60395394009	MW-P-031722	EPA 200.7	778023	EPA 200.7	778125
60395394010	MW-101-031622	EPA 200.7	778023	EPA 200.7	778125
60395394011	MW-102-031622	EPA 200.7	778023	EPA 200.7	778125
60395394012	MW-103-031522	EPA 200.7	778023	EPA 200.7	778125
60395394013	MW-104-031722	EPA 200.7	778023	EPA 200.7	778125
60395394014	MW-106-031622	EPA 200.7	778023	EPA 200.7	778125
60395394015	MW-107-031622	EPA 200.7	778023	EPA 200.7	778125
60395394016	MW-108-031622	EPA 200.7	778024	EPA 200.7	778127
60395394017	MW-109-031622	EPA 200.7	778024	EPA 200.7	778127
60395394018	MW-110-031622	EPA 200.7	778024	EPA 200.7	778127
60395394019	MW-112-031522	EPA 200.7	778024	EPA 200.7	778127
60395394020	MW-113-031522	EPA 200.7	778024	EPA 200.7	778127
60395394021	LEC-CMA-DUP01-031622	EPA 200.7	778024	EPA 200.7	778127
60395394022	LEC-CMA-DUP02-031722	EPA 200.7	778024	EPA 200.7	778127
60395394023	EB-031722	EPA 200.7	778024	EPA 200.7	778127
60395394001	MW-A-032622	EPA 3010	781103	EPA 6010	781142

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: LEC PERIMTER ASH POND WELLS CC

Pace Project No.: 60395394

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60395394002	MW-B-031622	EPA 3010	778305	EPA 6010	778358
60395394003	MW-C-031722	EPA 3010	778305	EPA 6010	778358
60395394004	MW-D-031722	EPA 3010	778305	EPA 6010	778358
60395394005	MW-G-031622	EPA 3010	778305	EPA 6010	778358
60395394006	MW-M-031722	EPA 3010	778305	EPA 6010	778358
60395394007	MW-N-031622	EPA 3010	778305	EPA 6010	778358
60395394008	MW-O-031622	EPA 3010	778305	EPA 6010	778358
60395394009	MW-P-031722	EPA 3010	778305	EPA 6010	778358
60395394010	MW-101-031622	EPA 3010	778305	EPA 6010	778358
60395394011	MW-102-031622	EPA 3010	778305	EPA 6010	778358
60395394012	MW-103-031522	EPA 3010	778305	EPA 6010	778358
60395394013	MW-104-031722	EPA 3010	778305	EPA 6010	778358
60395394014	MW-106-031622	EPA 3010	778305	EPA 6010	778358
60395394015	MW-107-031622	EPA 3010	778305	EPA 6010	778358
60395394016	MW-108-031622	EPA 3010	778305	EPA 6010	778358
60395394017	MW-109-031622	EPA 3010	778305	EPA 6010	778358
60395394018	MW-110-031622	EPA 3010	778305	EPA 6010	778358
60395394019	MW-112-031522	EPA 3010	778305	EPA 6010	778358
60395394020	MW-113-031522	EPA 3010	778305	EPA 6010	778358
60395394021	LEC-CMA-DUP01-031622	EPA 3010	778343	EPA 6010	778541
60395394022	LEC-CMA-DUP02-031722	EPA 3010	778343	EPA 6010	778541
60395394023	EB-031722	EPA 3010	778343	EPA 6010	778541
60395394001	MW-A-032622	EPA 3010	778390	EPA 6010	778548
60395394002	MW-B-031622	EPA 3010	778390	EPA 6010	778548
60395394003	MW-C-031722	EPA 3010	778390	EPA 6010	778548
60395394004	MW-D-031722	EPA 3010	778390	EPA 6010	778548
60395394005	MW-G-031622	EPA 3010	778390	EPA 6010	778548
60395394006	MW-M-031722	EPA 3010	778390	EPA 6010	778548
60395394007	MW-N-031622	EPA 3010	778390	EPA 6010	778548
60395394008	MW-O-031622	EPA 3010	778390	EPA 6010	778548
60395394009	MW-P-031722	EPA 3010	778390	EPA 6010	778548
60395394010	MW-101-031622	EPA 3010	778390	EPA 6010	778548
60395394011	MW-102-031622	EPA 3010	778390	EPA 6010	778548
60395394012	MW-103-031522	EPA 3010	778390	EPA 6010	778548
60395394013	MW-104-031722	EPA 3010	778390	EPA 6010	778548
60395394014	MW-106-031622	EPA 3010	778390	EPA 6010	778548
60395394015	MW-107-031622	EPA 3010	778390	EPA 6010	778548
60395394016	MW-108-031622	EPA 3010	778390	EPA 6010	778548
60395394017	MW-109-031622	EPA 3010	778390	EPA 6010	778548
60395394018	MW-110-031622	EPA 3010	778390	EPA 6010	778548
60395394019	MW-112-031522	EPA 3010	778390	EPA 6010	778548
60395394020	MW-113-031522	EPA 3010	778390	EPA 6010	778548
60395394021	LEC-CMA-DUP01-031622	EPA 3010	778391	EPA 6010	778546
60395394022	LEC-CMA-DUP02-031722	EPA 3010	778391	EPA 6010	778546
60395394023	EB-031722	EPA 3010	778391	EPA 6010	778546
60395394001	MW-A-032622	EPA 200.8	778135	EPA 200.8	778281

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: LEC PERIMTER ASH POND WELLS CC

Pace Project No.: 60395394

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60395394002	MW-B-031622	EPA 200.8	778135	EPA 200.8	778281
60395394003	MW-C-031722	EPA 200.8	778135	EPA 200.8	778281
60395394004	MW-D-031722	EPA 200.8	778135	EPA 200.8	778281
60395394005	MW-G-031622	EPA 200.8	778135	EPA 200.8	778281
60395394006	MW-M-031722	EPA 200.8	778135	EPA 200.8	778281
60395394007	MW-N-031622	EPA 200.8	778135	EPA 200.8	778281
60395394008	MW-O-031622	EPA 200.8	778135	EPA 200.8	778281
60395394009	MW-P-031722	EPA 200.8	778135	EPA 200.8	778281
60395394010	MW-101-031622	EPA 200.8	778135	EPA 200.8	778281
60395394011	MW-102-031622	EPA 200.8	778135	EPA 200.8	778281
60395394012	MW-103-031522	EPA 200.8	778135	EPA 200.8	778281
60395394013	MW-104-031722	EPA 200.8	778135	EPA 200.8	778281
60395394014	MW-106-031622	EPA 200.8	778135	EPA 200.8	778281
60395394015	MW-107-031622	EPA 200.8	778135	EPA 200.8	778281
60395394016	MW-108-031622	EPA 200.8	778135	EPA 200.8	778281
60395394017	MW-109-031622	EPA 200.8	778135	EPA 200.8	778281
60395394018	MW-110-031622	EPA 200.8	778135	EPA 200.8	778281
60395394019	MW-112-031522	EPA 200.8	778135	EPA 200.8	778281
60395394020	MW-113-031522	EPA 200.8	778135	EPA 200.8	778281
60395394021	LEC-CMA-DUP01-031622	EPA 200.8	778136	EPA 200.8	778279
60395394022	LEC-CMA-DUP02-031722	EPA 200.8	778136	EPA 200.8	778279
60395394023	EB-031722	EPA 200.8	778136	EPA 200.8	778279
60395394001	MW-A-032622	SM 2320B	777562		
60395394002	MW-B-031622	SM 2320B	777870		
60395394003	MW-C-031722	SM 2320B	777870		
60395394004	MW-D-031722	SM 2320B	777870		
60395394005	MW-G-031622	SM 2320B	777870		
60395394006	MW-M-031722	SM 2320B	777870		
60395394007	MW-N-031622	SM 2320B	777870		
60395394008	MW-O-031622	SM 2320B	777870		
60395394009	MW-P-031722	SM 2320B	777870		
60395394010	MW-101-031622	SM 2320B	777870		
60395394011	MW-102-031622	SM 2320B	777870		
60395394012	MW-103-031522	SM 2320B	777561		
60395394013	MW-104-031722	SM 2320B	777870		
60395394014	MW-106-031622	SM 2320B	777870		
60395394015	MW-107-031622	SM 2320B	777870		
60395394016	MW-108-031622	SM 2320B	777870		
60395394017	MW-109-031622	SM 2320B	777870		
60395394018	MW-110-031622	SM 2320B	777870		
60395394019	MW-112-031522	SM 2320B	777561		
60395394020	MW-113-031522	SM 2320B	777562		
60395394021	LEC-CMA-DUP01-031622	SM 2320B	777870		
60395394022	LEC-CMA-DUP02-031722	SM 2320B	777870		
60395394023	EB-031722	SM 2320B	777870		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: LEC PERIMTER ASH POND WELLS CC

Pace Project No.: 60395394

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60395394001	MW-A-032622	SM 2540C	777122		
60395394002	MW-B-031622	SM 2540C	777122		
60395394003	MW-C-031722	SM 2540C	777585		
60395394004	MW-D-031722	SM 2540C	777585		
60395394005	MW-G-031622	SM 2540C	777122		
60395394006	MW-M-031722	SM 2540C	777585		
60395394007	MW-N-031622	SM 2540C	777122		
60395394008	MW-O-031622	SM 2540C	777122		
60395394009	MW-P-031722	SM 2540C	777585		
60395394010	MW-101-031622	SM 2540C	777122		
60395394011	MW-102-031622	SM 2540C	777122		
60395394012	MW-103-031522	SM 2540C	776850		
60395394013	MW-104-031722	SM 2540C	777585		
60395394014	MW-106-031622	SM 2540C	777122		
60395394015	MW-107-031622	SM 2540C	777122		
60395394016	MW-108-031622	SM 2540C	777123		
60395394017	MW-109-031622	SM 2540C	777123		
60395394018	MW-110-031622	SM 2540C	777123		
60395394019	MW-112-031522	SM 2540C	776850		
60395394020	MW-113-031522	SM 2540C	776850		
60395394021	LEC-CMA-DUP01-031622	SM 2540C	777123		
60395394022	LEC-CMA-DUP02-031722	SM 2540C	777585		
60395394023	EB-031722	SM 2540C	777585		
60395394001	MW-A-032622	SM 3500-Fe B#4	777952		
60395394002	MW-B-031622	SM 3500-Fe B#4	777953		
60395394003	MW-C-031722	SM 3500-Fe B#4	778712		
60395394004	MW-D-031722	SM 3500-Fe B#4	777953		
60395394005	MW-G-031622	SM 3500-Fe B#4	777952		
60395394006	MW-M-031722	SM 3500-Fe B#4	778799		
60395394007	MW-N-031622	SM 3500-Fe B#4	777953		
60395394008	MW-O-031622	SM 3500-Fe B#4	777953		
60395394009	MW-P-031722	SM 3500-Fe B#4	778712		
60395394010	MW-101-031622	SM 3500-Fe B#4	777953		
60395394011	MW-102-031622	SM 3500-Fe B#4	777953		
60395394012	MW-103-031522	SM 3500-Fe B#4	777952		
60395394013	MW-104-031722	SM 3500-Fe B#4	778799		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: LEC PERIMTER ASH POND WELLS CC

Pace Project No.: 60395394

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60395394014	MW-106-031622	SM 3500-Fe B#4	777953		
60395394015	MW-107-031622	SM 3500-Fe B#4	777953		
60395394016	MW-108-031622	SM 3500-Fe B#4	777953		
60395394017	MW-109-031622	SM 3500-Fe B#4	777953		
60395394018	MW-110-031622	SM 3500-Fe B#4	777953		
60395394019	MW-112-031522	SM 3500-Fe B#4	777952		
60395394020	MW-113-031522	SM 3500-Fe B#4	777952		
60395394021	LEC-CMA-DUP01-031622	SM 3500-Fe B#4	777952		
60395394022	LEC-CMA-DUP02-031722	SM 3500-Fe B#4	778712		
60395394023	EB-031722	SM 3500-Fe B#4	778799		
60395394001	MW-A-032622	SM 4500-H+B	777330		
60395394002	MW-B-031622	SM 4500-H+B	777330		
60395394003	MW-C-031722	SM 4500-H+B	778037		
60395394004	MW-D-031722	SM 4500-H+B	777726		
60395394005	MW-G-031622	SM 4500-H+B	777330		
60395394006	MW-M-031722	SM 4500-H+B	777726		
60395394007	MW-N-031622	SM 4500-H+B	777726		
60395394008	MW-O-031622	SM 4500-H+B	777726		
60395394009	MW-P-031722	SM 4500-H+B	778037		
60395394010	MW-101-031622	SM 4500-H+B	777330		
60395394011	MW-102-031622	SM 4500-H+B	777330		
60395394012	MW-103-031522	SM 4500-H+B	777234		
60395394013	MW-104-031722	SM 4500-H+B	778037		
60395394014	MW-106-031622	SM 4500-H+B	777726		
60395394015	MW-107-031622	SM 4500-H+B	777330		
60395394016	MW-108-031622	SM 4500-H+B	777330		
60395394017	MW-109-031622	SM 4500-H+B	777726		
60395394018	MW-110-031622	SM 4500-H+B	777726		
60395394019	MW-112-031522	SM 4500-H+B	777233		
60395394020	MW-113-031522	SM 4500-H+B	777234		
60395394021	LEC-CMA-DUP01-031622	SM 4500-H+B	777330		
60395394022	LEC-CMA-DUP02-031722	SM 4500-H+B	777726		
60395394023	EB-031722	SM 4500-H+B	778037		
60395394001	MW-A-032622	SM 4500-S-2 D	776937		
60395394002	MW-B-031622	SM 4500-S-2 D	776937		
60395394003	MW-C-031722	SM 4500-S-2 D	777331		
60395394004	MW-D-031722	SM 4500-S-2 D	777331		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: LEC PERIMTER ASH POND WELLS CC

Pace Project No.: 60395394

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60395394005	MW-G-031622	SM 4500-S-2 D	776937		
60395394006	MW-M-031722	SM 4500-S-2 D	777390		
60395394007	MW-N-031622	SM 4500-S-2 D	776937		
60395394008	MW-O-031622	SM 4500-S-2 D	776937		
60395394009	MW-P-031722	SM 4500-S-2 D	777390		
60395394010	MW-101-031622	SM 4500-S-2 D	776937		
60395394011	MW-102-031622	SM 4500-S-2 D	776937		
60395394012	MW-103-031522	SM 4500-S-2 D	776933		
60395394013	MW-104-031722	SM 4500-S-2 D	777390		
60395394014	MW-106-031622	SM 4500-S-2 D	776937		
60395394015	MW-107-031622	SM 4500-S-2 D	776937		
60395394016	MW-108-031622	SM 4500-S-2 D	776937		
60395394017	MW-109-031622	SM 4500-S-2 D	776937		
60395394018	MW-110-031622	SM 4500-S-2 D	776937		
60395394019	MW-112-031522	SM 4500-S-2 D	776933		
60395394020	MW-113-031522	SM 4500-S-2 D	776933		
60395394021	LEC-CMA-DUP01-031622	SM 4500-S-2 D	776937		
60395394022	LEC-CMA-DUP02-031722	SM 4500-S-2 D	777390		
60395394023	EB-031722	SM 4500-S-2 D	777390		
60395394001	MW-A-032622	EPA 300.0	777597		
60395394002	MW-B-031622	EPA 300.0	777597		
60395394003	MW-C-031722	EPA 300.0	777597		
60395394004	MW-D-031722	EPA 300.0	777597		
60395394005	MW-G-031622	EPA 300.0	777261		
60395394006	MW-M-031722	EPA 300.0	777261		
60395394007	MW-N-031622	EPA 300.0	777261		
60395394008	MW-O-031622	EPA 300.0	777261		
60395394009	MW-P-031722	EPA 300.0	777261		
60395394010	MW-101-031622	EPA 300.0	777261		
60395394011	MW-102-031622	EPA 300.0	777261		
60395394012	MW-103-031522	EPA 300.0	777261		
60395394013	MW-104-031722	EPA 300.0	777261		
60395394014	MW-106-031622	EPA 300.0	777261		
60395394015	MW-107-031622	EPA 300.0	777261		
60395394016	MW-108-031622	EPA 300.0	777261		
60395394017	MW-109-031622	EPA 300.0	777261		
60395394018	MW-110-031622	EPA 300.0	777261		
60395394019	MW-112-031522	EPA 300.0	777261		
60395394020	MW-113-031522	EPA 300.0	777261		
60395394021	LEC-CMA-DUP01-031622	EPA 300.0	777261		
60395394022	LEC-CMA-DUP02-031722	EPA 300.0	777261		
60395394023	EB-031722	EPA 300.0	777261		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: LEC PERIMTER ASH POND WELLS CC

Pace Project No.: 60395394

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60395394001	MW-A-032622	SM 5310C	669283		
60395394002	MW-B-031622	SM 5310C	669283		
60395394003	MW-C-031722	SM 5310C	669283		
60395394004	MW-D-031722	SM 5310C	669283		
60395394005	MW-G-031622	SM 5310C	669283		
60395394006	MW-M-031722	SM 5310C	669283		
60395394007	MW-N-031622	SM 5310C	669283		
60395394008	MW-O-031622	SM 5310C	669283		
60395394009	MW-P-031722	SM 5310C	669283		
60395394010	MW-101-031622	SM 5310C	669283		
60395394011	MW-102-031622	SM 5310C	669283		
60395394012	MW-103-031522	SM 5310C	669283		
60395394013	MW-104-031722	SM 5310C	669283		
60395394014	MW-106-031622	SM 5310C	669283		
60395394015	MW-107-031622	SM 5310C	669283		
60395394016	MW-108-031622	SM 5310C	669284		
60395394017	MW-109-031622	SM 5310C	669283		
60395394018	MW-110-031622	SM 5310C	669284		
60395394019	MW-112-031522	SM 5310C	669284		
60395394020	MW-113-031522	SM 5310C	669284		
60395394021	LEC-CMA-DUP01-031622	SM 5310C	669284		
60395394022	LEC-CMA-DUP02-031722	SM 5310C	669284		
60395394023	EB-031722	SM 5310C	669284		
60395394001	MW-A-032622	SM 5310C	670094		
60395394002	MW-B-031622	SM 5310C	670094		
60395394003	MW-C-031722	SM 5310C	670094		
60395394004	MW-D-031722	SM 5310C	670094		
60395394005	MW-G-031622	SM 5310C	670094		
60395394006	MW-M-031722	SM 5310C	670094		
60395394007	MW-N-031622	SM 5310C	670094		
60395394008	MW-O-031622	SM 5310C	670602		
60395394009	MW-P-031722	SM 5310C	670095		
60395394010	MW-101-031622	SM 5310C	670094		
60395394011	MW-102-031622	SM 5310C	670094		
60395394012	MW-103-031522	SM 5310C	670094		
60395394013	MW-104-031722	SM 5310C	670094		
60395394014	MW-106-031622	SM 5310C	670094		
60395394015	MW-107-031622	SM 5310C	670094		
60395394016	MW-108-031622	SM 5310C	670094		
60395394017	MW-109-031622	SM 5310C	670094		
60395394018	MW-110-031622	SM 5310C	670094		
60395394019	MW-112-031522	SM 5310C	670094		
60395394020	MW-113-031522	SM 5310C	670094		
60395394021	LEC-CMA-DUP01-031622	SM 5310C	670095		
60395394022	LEC-CMA-DUP02-031722	SM 5310C	670095		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: LEC PERIMTER ASH POND WELLS CC
Pace Project No.: 60395394

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60395394023	EB-031722	SM 5310C	670095		

REPORT OF LABORATORY ANALYSIS

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WO#: 60395394



DC#_Title: ENV-FRM-LENE-0009_Samp

Revision: 2

Effective Date: 01/12/2022

Issued By: Lenexa

Client Name: Energy 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 uplc

Thermometer Used: T-299 Type of Ice: Wet Blue None

Cooler Temperature (°C): As-read on COC Corr. Factor -0.2 Corrected on COC

Date and initials of person examining contents: 3/18/22 *[Signature]*

Temperature should be above freezing to 6°C

Chain of Custody present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Chain of Custody relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Samples arrived within holding time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Short Hold Time analyses (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<u>FEET</u>
Rush Turn Around Time requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Correct containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Unpreserved 5035A / TX1005/1006 soils frozen in 48hrs?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Filtered volume received for dissolved tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Sample labels match COC: Date / time / ID / analyses	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Samples contain multiple phases? Matrix: <u>W</u>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> 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#:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> 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)	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Potassium iodide test strip turns blue/purple? (Preserve)	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Trip Blank present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Headspace in VOA vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Samples from USDA Regulated Area: State:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Additional labels attached to 5035A / TX1005 vials in the field?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> 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: _____

WO#: 50312585



stody

Samples Pre-Logged into eCOC.

State Of Origin: KS

Cert. Needed: Yes No

Workorder: 60395394 Workorder Name: LEC PERIMTER ASH POND WELLS COOWNER Received Date: 3/17/2022 Results Requested By: 3/31/2022



Report 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

Subcontract To

Requested Analysis

5310C TOC

Preserved Containers

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	H2SO4	Preserved Containers	LAB USE ONLY
1	MW-A-032622	PS	3/16/2022 10:45	60395394001	Water	1		001
2	MW-B-031622	PS	3/16/2022 12:30	60395394002	Water	1		002
3	MW-C-031722	PS	3/17/2022 12:15	60395394003	Water	1		003
4	MW-D-031722	PS	3/17/2022 09:10	60395394004	Water	1		004
5	MW-G-031622	PS	3/16/2022 09:10	60395394005	Water	1		005
6	MW-M-031722	PS	3/17/2022 10:35	60395394006	Water	1		006
7	MW-N-031622	PS	3/16/2022 14:50	60395394007	Water	1		007
8	MW-O-031622	PS	3/16/2022 15:00	60395394008	Water	1		008
9	MW-P-031722	PS	3/17/2022 11:40	60395394009	Water	1		009
10	MW-101-031622	PS	3/16/2022 12:00	60395394010	Water	1		010
11	MW-102-031622	PS	3/16/2022 13:25	60395394011	Water	1		011
12	MW-103-031522	PS	3/15/2022 13:10	60395394012	Water	1		012
13	MW-104-031722	PS	3/17/2022 10:55	60395394013	Water	1		013
14	MW-106-031622	PS	3/16/2022 17:55	60395394014	Water	1		014
15	MW-107-031622	PS	3/16/2022 16:20	60395394015	Water	1		015
16	MW-108-031622	PS	3/16/2022 13:35	60395394016	Water	1		016
17	MW-109-031622	PS	3/16/2022 16:30	60395394017	Water	1		017
18	MW-110-031622	PS	3/16/2022 17:30	60395394018	Water	1		018
19	MW-112-031522	PS	3/15/2022 10:05	60395394019	Water	1		019

WO#: 50312585

PM: KH Due Date: 04/07/22
CLIENT: Pasi-Kans

Custody

Samples Pre-Logged into eCOC.

State Of Origin: KS
Cert. Needed: Yes No

Workorder: 60395394 Workorder Name: LEC PERIMTER ASH POND WELLS COOWNER Received Date: 3/17/2022 Results Requested By: 3/31/2022



Report To		Subcontract To		Requested Analysis					
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		S310C TOC					
Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers	LAB USE ONLY		
20	MW-113-031522	PS	3/15/2022 11:25	60395394020	Water	1	020		
21	LEC-CMA-DUP01-031622	PS	3/16/2022 10:55	60395394021	Water	1	021		
22	LEC-CMA-DUP02-031722	PS	3/17/2022 10:55	60395394022	Water	1	022		
23	EB-031722	PS	3/17/2022 13:00	60395394023	Water	1	023		
24									
Transfers							Comments		
Released By	Date/Time	Received By	Date/Time						
<i>Quincy</i>	03/30/22 18:20	<i>Fed Ex</i>							
<i>Fed Ex</i>	3-31-22 09:05	<i>JW</i>	3-31-22 09:05						
Cooler Temperature on Receipt 3.3 °C							Received on Ice <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	Custody Seal <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	Samples Intact <input checked="" type="checkbox"/> Y <input type="checkbox"/> 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 CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: JW 3.31.22 0925

1. Courier: FED EX UPS CLIENT PACE USPS OTHER

5. Packing Material: Bubble Wrap Bubble Bags
 None Other Ziploc

2. Custody Seal on Cooler/Box Present: Yes No (leave blank if no seals were present)
 (If yes) Seals Intact: Yes No

3. Thermometer: 1 2 3 4 5 6 A B C D E F

6. Ice Type: Wet Blue None

7. If temp. is over 6°C or under 0°C, was the PM notified?: Yes No

4. Cooler Temperature: 3.3 / 3.3 (Initial/Corrected)
 Temp should be above freezing to 6°C

All discrepancies will be written out in the comments section below.

	Yes	No	Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR, CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		<input checked="" type="checkbox"/>			
Short Hold Time Analysis (48 hours or less)? Analysis:		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
Time 5035A TC placed in Freezer or Short Holds To Lab	Time:				
Rush TAT Requested (4 days or less):		<input checked="" type="checkbox"/>			
Custody Signatures Present?	<input checked="" type="checkbox"/>		Present	Absent	N/A
Containers Intact?:	<input checked="" type="checkbox"/>		Present	Absent	No VOA Vials Sent
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	<input checked="" type="checkbox"/>				
Extra labels on Terracore Vials? (soils only)				<input checked="" type="checkbox"/>	

COMMENTS:

Sample Container Count

SBS
DI
MeOH
(only)
BK
Kit

** Place a RED dot on containers that are out of conformance **

COC Line Item	WGFU	R	VOA VIAL HS (<6mm)	DG9H	VG9H	VG9U	DG9U	VG9T	AG0U	AG1H	AG1U	AG2U	AG3S	AG3SF	AG3C	BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	CG3H	Syringe Kit	Matrix	HNO3/ H2SO4 pH <2	NaOH/ ZNAC pH >9	NaOH pH >10
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Container Codes

Glass		Plastic / Misc.	
DG9H	40mL HCl amber vial	BG1T	1L Na Thiosulfate clear glass
DG9P	40mL TSP amber vial	BG1U	1L unreserved glass
DG9S	40mL H2SO4 amber vial	BG3H	250mL HCl Clear Glass
DG9T	40mL Na Thio amber vial	BG3U	250mL Unpres Clear Glass
DG9U	40mL unreserved 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 unreserved clear vial	AG1T	1L Na Thiosulfate amber glass
I	40mL w/hexane wipe vial	AG1U	1liter unpres amber glass
WGKU	8oz unreserved clear jar	AG2N	500mL HNO3 amber glass
WGFU	4oz clear soil jar	AG2S	500mL H2SO4 amber glass
JGFU	4oz unreserved amber wide	AG2U	500mL unpres amber glass
CG3H	250mL clear glass HCl	AG3S	250mL H2SO4 amber glass
BG3H	1L HCl clear glass	AG3SF	250mL H2SO4 amb glass -field filtered
BG3S	1L H2SO4 clear glass	AG3U	250mL unpres amber glass
GN	General	AG3C	250mL NaOH amber glass
BP4U	125mL unreserved plastic	BP1B	1L NaOH plastic
BP4N	125mL HNO3 plastic	BP1N	1L HNO3 plastic
BP4S	125mL H2SO4 plastic	BP1S	1L H2SO4 plastic
		BP1U	1L unreserved plastic
		BP1Z	1L NaOH, Zn, Ac
		BP2N	500mL HNO3 plastic
		BP2C	500mL NaOH plastic
		BP2S	500mL H2SO4 plastic
		BP2U	500mL unreserved plastic
		BP2Z	500mL NaOH, Zn Ac
		BP3B	250mL NaOH plastic
		BP3N	250mL HNO3 plastic
		BP3F	250mL HNO3 plastic-field filtered
		BP3U	250mL unreserved plastic
		BP3S	250mL H2SO4 plastic
		BP3Z	250mL NaOH, ZnAc plastic
		WT	Water
		SL	Solid
		NAL	Non-aqueous liquid
		OL	Oil
		WP	Wipe
		Syringe Kit	LL Cr+6 sampling kit
		AF	Air Filter
		C	Air Cassettes
		R	Terracore kit
		SP5T	120mL Coliform Na Thiosulfate
		U	Summa Can
		ZPLC	Ziploc Bag

Sample Container Count

SBS
DI
MeOH
(only)
BK
Kit

** Place a RED dot on containers that are out of performance **

COC Line Item	WGFU	R	VOA VIAL HS (<6mm)	VG9H	DG9H	VG9U	DG9U	VG9T	AG0U	AG1H	AG1U	AG2U	AG3S	AG3SF	AG3C	BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	CG3H	Syringe Kit	Matrix	HNO3/ H2SO4 pH <2	NaOH/ ZnAc pH >9	NaOH pH >10
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12																														

Container Codes

Glass		Plastic / Misc.	
DG9H	40mL HCl amber vial	BP4U	125mL unreserved plastic
DG9P	40mL TSP amber vial	BP4N	125mL HNO3 plastic
DG9S	40mL H2SO4 amber vial	BP4S	125mL H2SO4 plastic
DG9T	40mL Na Thio amber vial		
DG9U	40mL unreserved amber vial		
VG9H	40mL HCl clear vial		
VG9T	40mL Na Thio. clear vial		
VG9U	40mL unreserved clear vial		
I	40mL w/hexane wipe vial		
WGKU	8oz unreserved clear jar		
WGFU	4oz clear soil jar		
JGFU	4oz unreserved amber wide		
CG3H	250mL clear glass HCl		
BG1H	1L HCl clear glass		
BG1S	1L H2SO4 clear glass		
GN	General		
BP1B	1L Na Thiosulfate clear glass		
BP1N	1L unreserved glass		
BP1S	250mL HCl Clear Glass		
BP1U	250mL Unpres Clear Glass		
BP1Z	100mL unpres amber glass		
BP2N	1L HCl amber glass		
BP2C	1L H2SO4 amber glass		
BP2S	1L Na Thiosulfate amber glass		
BP2U	1liter unpres amber glass		
BP2Z	500mL HNO3 amber glass		
BP3B	500mL H2SO4 amber glass		
BP3N	500mL unpres amber glass		
BP3F	250mL H2SO4 amber glass		
BP3U	250mL H2SO4 amb glass -field filtered		
BP3S	250mL unpres amber glass		
BP3Z	250mL NaOH amber glass		
BP3U	250mL unreserved plastic		
BP3S	250mL H2SO4 plastic		
BP3Z	250mL NaOH, ZnAc plastic		
AF	Air Filter		
C	Air Cassettes		
R	Terracore kit		
SP5T	120mL Colliform Na Thiosulfate		
U	Summa Can		
ZPLC	Ziploc Bag		
WT	Water		
SL	Solid		
NAL	Non-aqueous liquid		
OL	Oil		
WP	Wipe		

Internal Transfer Chain of Custody



Samples Pre-Logged into eCOC.

State Of Origin: KS

Cert. Needed: Yes No

Workorder: 60395394 Workorder Name: LEC PERIMTER ASH POND WELLS COwner Received Date: 3/17/2022 Results Requested By: 3/31/2022 **

Report To		Subcontract To				Requested Analysis																																																				
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				<table border="1"> <tr> <td rowspan="2">Dissolved organic carbon, FF</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table>												Dissolved organic carbon, FF																																								
Dissolved organic carbon, FF																																																										
Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	H2SO4	Preserved Containers										LAB USE ONLY																																									
20	MW-113-031522	PS	3/15/2022 11:25	60395394020	Water	1															X	020																																				
21	LEC-CMA-DUP01-031622	PS	3/16/2022 10:55	60395394021	Water	1															X	021																																				
22	LEC-CMA-DUP02-031722	PS	3/17/2022 10:55	60395394022	Water	1															X	022																																				
23	EB-031722	PS	3/17/2022 13:00	60395394023	Water	1															X	023																																				
24																																																										
Transfers												Comments																																														
Released By	Date/Time	Received By	Date/Time																																																							
S. Malve / pace	4/15/22 1500	[Signature]	4/16/22 0900																																																							
[Signature]		[Signature]	4/16/22 0900																																																							
Cooler Temperature on Receipt 2-1 °C		Custody Seal <input checked="" type="checkbox"/> or N		Received on Ice <input checked="" type="checkbox"/> or N		Samples Intact <input checked="" type="checkbox"/> 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 CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: MM 4/6/22 1455

- 1. Courier: FED EX UPS CLIENT PACE USPS OTHER _____
- 2. Custody Seal on Cooler/Box Present: Yes No
 (If yes)Seals Intact: Yes No (leave blank if no seals were present)
- 3. Thermometer: 1 2 3 4 5 6 A B C D E F
- 4. Cooler Temperature: 2.3/2.1
 Temp should be above freezing to 6°C (Initial/Corrected)

- 5. Packing Material: Bubble Wrap Bubble Bags
 None Other _____
- 6. Ice Type: Wet Blue None
- 7. If temp. is over 6°C or under 0°C, was the PM notified?: Yes No

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR,CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		<input checked="" type="checkbox"/>	All containers needing acid/base pres. Have been CHECKED?: exceptions: VOA, coliform, LLHg, O&G, and any container with a septum cap or preserved with HCl.	<input checked="" type="checkbox"/>		
Short Hold Time Analysis (48 hours or less)? Analysis:		<input checked="" type="checkbox"/>	Circle: HNO3 (<2) <u>H2SO4 (<2)</u> NaOH (>10) NaOH/ZnAc (>9) Any non-conformance to pH recommendations will be noted on the container count form	<input checked="" type="checkbox"/>		
Time 5035A TC placed in Freezer or Short Holds To Lab	Time:		Residual Chlorine Check (SVOC 625 Pest/PCB 608)	<u>Present</u>	<u>Absent</u>	<u>N/A</u>
Rush TAT Requested (4 days or less):		<input checked="" type="checkbox"/>	Residual Chlorine Check (Total/Amenable/Free Cyanide)			<input checked="" type="checkbox"/>
Custody Signatures Present?	<input checked="" type="checkbox"/>		Headspace Wisconsin Sulfide?			
Containers Intact?:	<input checked="" type="checkbox"/>		Headspace in VOA Vials (>6mm); See Container Count form for details	<u>Present</u>	<u>Absent</u>	<u>No VOA Vials Sent</u>
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	<input checked="" type="checkbox"/>		Trip Blank Present?		<input checked="" type="checkbox"/>	
Extra labels on Terracore Vials? (soils only)		<input checked="" type="checkbox"/>	Trip Blank Custody Seals?:		<input checked="" type="checkbox"/>	

COMMENTS:

Sample Container Count

SBS
DI
MeOH
(only)
BK
Kit

** Place a RED dot on containers that are out of conformance **

COC Line Item	WG FU	R	DG9H	VG9H	VOA VIAL HS (>6mm)	VG9U	DG9U	VG9T	AG0U	AG1H	AG1U	AG2U	AG3S	AG3SF	AG3C	BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	CG3H	Syringe Kit	Matrix	HNO3/H2SO4 pH <2	NaOH/ZnAc pH >9	NaOH pH >10	
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Container Codes

Glass				Plastic / Misc.			
DG9H	40mL HCl amber voa vial	BG1T	1L Na Thiosulfate clear glass	BP1B	1L NaOH plastic	BP4U	125mL unpreserved plastic
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass	BP1N	1L HNO3 plastic	BP4N	125mL HNO3 plastic
DG9S	40mL H2SO4 amber vial	BG3H	250mL HCl Clear Glass	BP1S	1L H2SO4 plastic	BP4S	125mL H2SO4 plastic
DG9T	40mL Na Thio amber vial	BG3U	250mL Unpres Clear Glass	BP1U	1L unpreserved plastic	Syringe Kit	LL Cr+6 sampling kit
DG9U	40mL unpreserved amber vial	AG0U	100mL unpres amber glass	BP1Z	1L NaOH, Zn, Ac	AF	Air Filter
VG9H	40mL HCl clear vial	AG1H	1L HCl amber glass	BP2N	500mL HNO3 plastic	C	Air Cassettes
VG9T	40mL Na Thio. clear vial	AG1S	1L H2SO4 amber glass	BP2C	500mL NaOH plastic	R	Terracore kit
VG9U	40mL unpreserved clear vial	AG1T	1L Na Thiosulfate amber glass	BP2S	500mL H2SO4 plastic	SP5T	120mL Coliform Na Thiosulfate
I	40mL w/hexane wipe vial	AG1U	1liter unpres amber glass	BP2U	500mL unpreserved plastic	U	Summa Can
WGKU	8oz unpreserved clear jar	AG2N	500mL HNO3 amber glass	BP2Z	500mL NaOH, Zn Ac	ZPLC	Ziploc Bag
WGFU	4oz clear soil jar	AG2S	500mL H2SO4 amber glass	BP3B	250mL NaOH plastic	WT	Water
JGFU	4oz unpreserved amber wide	AG2U	500mL unpres amber glass	BP3N	250mL HNO3 plastic	SL	Solid
CG3H	250mL clear glass HCl	AG3S	250mL H2SO4 amber glass	BP3F	250mL HNO3 plastic-field filtered	NAL	OL Non-aqueous liquid Oil
BG1H	1L HCl clear glass	AG3SF	250mL H2SO4 amb glass -field filtered	BP3U	250mL unpreserved plastic	WP	Wipe
BG1S	1L H2SO4 clear glass	AG3U	250mL unpres amber glass	BP3S	250mL H2SO4 plastic		
GN	General	AG3C	250mL NaOH amber glass	BP3Z	250mL NaOH, ZnAc plastic		

Sample Container Count

SBS
DI
MeOH
(only)
BK
Kit

** Place a RED dot on containers that are out of conformance **

COC Line Item	WG FU	R	DG9H	VG9H	VOA VIAL HS (>6mm)	VG9U	DG9U	VG9T	AG0U	AG1H	AG1U	AG2U	AG3S	AG3SF	AG3C	BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	CG3H	Syringe Kit	Matrix	HNO3/H2SO4 pH <2	NaOH/ZnAc pH >9	NaOH pH >10
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Container Codes

Glass				Plastic / Misc.			
DG9H	40mL HCl amber voa vial	BG1T	1L Na Thiosulfate clear glass	BP1B	1L NaOH plastic	BP4U	125mL unpreserved plastic
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass	BP1N	1L HNO3 plastic	BP4N	125mL HNO3 plastic
DG9S	40mL H2SO4 amber vial	BG3H	250mL HCl Clear Glass	BP1S	1L H2SO4 plastic	BP4S	125mL H2SO4 plastic
DG9T	40mL Na Thio amber vial	BG3U	250mL Unpres Clear Glass	BP1U	1L unpreserved plastic	Syringe Kit	LL Cr+6 sampling kit
DG9U	40mL unpreserved amber vial	AG0U	100mL unpres amber glass	BP1Z	1L NaOH, Zn, Ac	AF	Air Filter
VG9H	40mL HCl clear vial	AG1H	1L HCl amber glass	BP2N	500mL HNO3 plastic	C	Air Cassettes
VG9T	40mL Na Thio. clear vial	AG1S	1L H2SO4 amber glass	BP2C	500mL NaOH plastic	R	Terracore kit
VG9U	40mL unpreserved clear vial	AG1T	1L Na Thiosulfate amber glass	BP2S	500mL H2SO4 plastic	SP5T	120mL Coliform Na Thiosulfate
I	40mL w/hexane wipe vial	AG1U	1liter unpres amber glass	BP2U	500mL unpreserved plastic	U	Summa Can
WGKU	8oz unpreserved clear jar	AG2N	500mL HNO3 amber glass	BP2Z	500mL NaOH, Zn Ac	ZPLC	Ziploc Bag
WGFU	4oz clear soil jar	AG2S	500mL H2SO4 amber glass	BP3B	250mL NaOH plastic	WT	Water
JGFU	4oz unpreserved amber wide	AG2U	500mL unpres amber glass	BP3N	250mL HNO3 plastic	SL	Solid
CG3H	250mL clear glass HCl	AG3S	250mL H2SO4 amber glass	BP3F	250mL HNO3 plastic-field filtered	NAL	OL Non-aqueous liquid Oil
BG1H	1L HCl clear glass	AG3SF	250mL H2SO4 amb glass -field filtered	BP3U	250mL unpreserved plastic	WP	Wipe
BG1S	1L H2SO4 clear glass	AG3U	250mL unpres amber glass	BP3S	250mL H2SO4 plastic		
GN	General	AG3C	250mL NaOH amber glass	BP3Z	250mL NaOH, ZnAc plastic		

Sample Container Count

SBS
DI
MeOH
(only)
BK
Kit

** Place a RED dot on containers that are out of conformance **

COC Line Item	WG FU	R	DG9H	VG9H	VOA VIAL HS (>6mm)	VG9U	DG9U	VG9T	AG0U	AG1H	AG1U	AG2U	AG3S	AG3SF	AG3C	BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	CG3H	Syringe Kit	Matrix	HNO3/H2SO4 pH <2	NaOH/ZNAc pH >9	NaOH pH >10
1																						1					5	✓		
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Container Codes

Glass				Plastic / Misc.			
DG9H	40mL HCl amber voa vial	BG1T	1L Na Thiosulfate clear glass	BP1B	1L NaOH plastic	BP4U	125mL unpreserved plastic
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass	BP1N	1L HNO3 plastic	BP4N	125mL HNO3 plastic
DG9S	40mL H2SO4 amber vial	BG3H	250mL HCl Clear Glass	BP1S	1L H2SO4 plastic	BP4S	125mL H2SO4 plastic
DG9T	40mL Na Thio amber vial	BG3U	250mL Unpres Clear Glass	BP1U	1L unpreserved plastic	Syringe Kit LL Cr+6 sampling kit	
DG9U	40mL unpreserved amber vial	AG0U	100mL unpres amber glass	BP1Z	1L NaOH, Zn, Ac	AF	Air Filter
VG9H	40mL HCl clear vial	AG1H	1L HCl amber glass	BP2N	500mL HNO3 plastic	C	Air Cassettes
VG9T	40mL Na Thio. clear vial	AG1S	1L H2SO4 amber glass	BP2C	500mL NaOH plastic	R	Terracore kit
VG9U	40mL unpreserved clear vial	AG1T	1L Na Thiosulfate amber glass	BP2S	500mL H2SO4 plastic	SP5T	120mL Coliform Na Thiosulfate
I	40mL w/hexane wipe vial	AG1U	1liter unpres amber glass	BP2U	500mL unpreserved plastic	U	Summa Can
WGKU	8oz unpreserved clear jar	AG2N	500mL HNO3 amber glass	BP2Z	500mL NaOH, Zn Ac	ZPLC	Ziploc Bag
WGFU	4oz clear soil jar	AG2S	500mL H2SO4 amber glass	BP3B	250mL NaOH plastic	WT	Water
JGFU	4oz unpreserved amber wide	AG2U	500mL unpres amber glass	BP3N	250mL HNO3 plastic	SL	Solid
CG3H	250mL clear glass HCl	AG3S	250mL H2SO4 amber glass	BP3F	250mL HNO3 plastic-field filtered	NAL	OL Non-aqueous liquid Oil
BG1H	1L HCl clear glass	AG3SF	250mL H2SO4 amb glass -field filtered	BP3U	250mL unpreserved plastic	WP	Wipe
BG1S	1L H2SO4 clear glass	AG3U	250mL unpres amber glass	BP3S	250mL H2SO4 plastic		
GN	General	AG3C	250mL NaOH amber glass	BP3Z	250mL NaOH, ZnAc plastic		

April 13, 2022

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

RE: Project: LEC INACTIVE ASH PONDS CCR
Pace Project No.: 60395401

Dear Jake Humphrey:

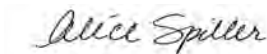
Enclosed are the analytical results for sample(s) received by the laboratory on March 17, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise 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

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

Sincerely,



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

Enclosures

cc: Laura Hines, Evergy, Inc.
Tabitha Hylton, Evergy Kansas Central, Inc. Lawrence
Energy Center
Samantha Kaney, Haley & Aldrich
Melissa Michels, Evergy, Inc.
Jared Morrison, Evergy, Inc.
Danielle Oberbroeckling, Haley & Aldrich
Danielle Oberbroeckling, Haley Aldrich
Zach Phillips, Evergy, Inc.
Melanie Sataneck, Haley & Aldrich, Inc.



REPORT OF LABORATORY ANALYSIS

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

CERTIFICATIONS

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60395401

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

Michigan Drinking Water Laboratory #9050

Ohio VAP Certified Laboratory #: CL0065

Oklahoma Laboratory #: 9204

Texas Certification #: T104704355

Wisconsin Laboratory #: 999788130

USDA Soil Permit #: P330-19-00257

Pace Analytical Services Kansas

9608 Loiret Boulevard, Lenexa, KS 66219

Missouri Inorganic Drinking Water Certification #: 10090

Arkansas Drinking Water

Arkansas Certification #: 20-020-0

Arkansas Drinking Water

Illinois Certification #: 2000302021-3

Iowa Certification #: 118

Kansas/NELAP Certification #: E-10116

Louisiana Certification #: 03055

Nevada Certification #: KS000212020-2

Oklahoma Certification #: 9205/9935

Florida: Cert E871149 SEKS WET

Texas Certification #: T104704407-19-12

Utah Certification #: KS000212019-9

Illinois Certification #: 004592

Kansas Field Laboratory Accreditation: # E-92587

Missouri SEKS Micro Certification: 10070

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60395401

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60395401001	MW-37-031522	Water	03/15/22 17:22	03/17/22 16:00
60395401002	MW-38-031522	Water	03/15/22 18:15	03/17/22 16:00
60395401003	MW-39-031522	Water	03/15/22 14:40	03/17/22 16:00
60395401004	MW-40-031522	Water	03/15/22 14:30	03/17/22 16:00
60395401005	MW-K-031522	Water	03/15/22 15:55	03/17/22 16:00
60395401006	MW-L-031522	Water	03/15/22 15:45	03/17/22 16:00
60395401007	DUP-AP-031522	Water	03/15/22 15:55	03/17/22 16:00

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SAMPLE ANALYTE COUNT

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60395401

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory		
60395401001	MW-37-031522	EPA 200.7	JLH	6	PASI-K		
		EPA 200.7	JLH	4	PASI-K		
		EPA 6010	JLH	1	PASI-K		
		EPA 6010	JLH	1	PASI-K		
		SM 2320B	KB	2	PASI-K		
		SM 2540C	BLA	1	PASI-K		
		SM 3500-Fe B#4	SK	1	PASI-K		
		SM 4500-H+B	SK	1	PASI-K		
		SM 4500-S-2 D	SK	1	PASI-K		
		EPA 300.0	CRN2	3	PASI-K		
		SM 5310C	ZM	1	PASI-I		
		SM 5310C	LDB	1	PASI-K		
		60395401002	MW-38-031522	EPA 200.7	JLH	6	PASI-K
				EPA 200.7	JLH	4	PASI-K
EPA 6010	JLH			1	PASI-K		
EPA 6010	JLH			1	PASI-K		
SM 2320B	KB			2	PASI-K		
SM 2540C	TNB			1	PASI-K		
SM 3500-Fe B#4	SK			1	PASI-K		
SM 4500-H+B	SK			1	PASI-K		
SM 4500-S-2 D	SK			1	PASI-K		
EPA 300.0	CRN2			3	PASI-K		
SM 5310C	ZM			1	PASI-I		
SM 5310C	LDB			1	PASI-K		
60395401003	MW-39-031522			EPA 200.7	JLH	6	PASI-K
				EPA 200.7	JLH	4	PASI-K
		EPA 6010	JLH	1	PASI-K		
		EPA 6010	JLH	1	PASI-K		
		SM 2320B	KB	2	PASI-K		
		SM 2540C	TNB	1	PASI-K		
		SM 3500-Fe B#4	SK	1	PASI-K		
		SM 4500-H+B	SK	1	PASI-K		
		SM 4500-S-2 D	SK	1	PASI-K		
		EPA 300.0	CRN2	3	PASI-K		
		SM 5310C	ZM	1	PASI-I		
		SM 5310C	LDB	1	PASI-K		
		60395401004	MW-40-031522	EPA 200.7	JLH	6	PASI-K

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SAMPLE ANALYTE COUNT

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60395401

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 200.7	JLH	4	PASI-K
		EPA 6010	JLH	1	PASI-K
		EPA 6010	JLH	1	PASI-K
		SM 2320B	KB	2	PASI-K
		SM 2540C	TNB	1	PASI-K
		SM 3500-Fe B#4	SK	1	PASI-K
		SM 4500-H+B	SK	1	PASI-K
		SM 4500-S-2 D	SK	1	PASI-K
		EPA 300.0	CRN2	3	PASI-K
		SM 5310C	ZM	1	PASI-I
		SM 5310C	LDB	1	PASI-K
60395401005	MW-K-031522	EPA 200.7	JLH	6	PASI-K
		EPA 200.7	JLH	4	PASI-K
		EPA 6010	JLH	1	PASI-K
		EPA 6010	JLH	1	PASI-K
		SM 2320B	KB	2	PASI-K
		SM 2540C	TNB	1	PASI-K
		SM 3500-Fe B#4	SK	1	PASI-K
		SM 4500-H+B	SK	1	PASI-K
		SM 4500-S-2 D	SK	1	PASI-K
		EPA 300.0	CRN2	3	PASI-K
		SM 5310C	ZM	1	PASI-I
		SM 5310C	LDB	1	PASI-K
60395401006	MW-L-031522	EPA 200.7	JLH	6	PASI-K
		EPA 200.7	JLH	4	PASI-K
		EPA 6010	JLH	1	PASI-K
		EPA 6010	JLH	1	PASI-K
		SM 2320B	KB	2	PASI-K
		SM 2540C	TNB	1	PASI-K
		SM 3500-Fe B#4	SK	1	PASI-K
		SM 4500-H+B	SK	1	PASI-K
		SM 4500-S-2 D	SK	1	PASI-K
		EPA 300.0	CRN2	3	PASI-K
		SM 5310C	ZM	1	PASI-I
		SM 5310C	LDB	1	PASI-K
60395401007	DUP-AP-031522	EPA 200.7	JLH	6	PASI-K
		EPA 200.7	JLH	4	PASI-K

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SAMPLE ANALYTE COUNT

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60395401

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 6010	JLH	1	PASI-K
		EPA 6010	JLH	1	PASI-K
		SM 2320B	KB	2	PASI-K
		SM 2540C	TNB	1	PASI-K
		SM 3500-Fe B#4	SK	1	PASI-K
		SM 4500-S-2 D	SK	1	PASI-K
		EPA 300.0	CRN2	3	PASI-K
		SM 5310C	ZM	1	PASI-I
		SM 5310C	LDB	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: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60395401

Method: EPA 200.7

Description: 200.7 Metals, Total

Client: Evergy Kansas Central, Inc.

Date: April 13, 2022

General Information:

7 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: 777650

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60395298001,60395398005

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

- MS (Lab ID: 3102799)
 - Magnesium
 - Sodium
- MS (Lab ID: 3102801)
 - Sodium
- MSD (Lab ID: 3102800)
 - Sodium

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60395401

Method: EPA 200.7

Description: 200.7 Metals, Dissolved

Client: Evergy Kansas Central, Inc.

Date: April 13, 2022

General Information:

7 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: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60395401

Method: EPA 6010

Description: 6010 MET ICP

Client: Evergy Kansas Central, Inc.

Date: April 13, 2022

General Information:

7 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: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60395401

Method: EPA 6010

Description: 6010 MET ICP, Dissolved

Client: Evergy Kansas Central, Inc.

Date: April 13, 2022

General Information:

7 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: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60395401

Method: SM 2320B

Description: 2320B Alkalinity

Client: Evergy Kansas Central, Inc.

Date: April 13, 2022

General Information:

7 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: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60395401

Method: SM 2540C

Description: 2540C Total Dissolved Solids

Client: Evergy Kansas Central, Inc.

Date: April 13, 2022

General Information:

7 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.

H1: Analysis conducted outside the EPA method holding time.

- MW-37-031522 (Lab ID: 60395401001)

Method Blank:

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

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits 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: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60395401

Method: SM 3500-Fe B#4

Description: Iron, Ferrous

Client: Evergy Kansas Central, Inc.

Date: April 13, 2022

General Information:

7 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.

- DUP-AP-031522 (Lab ID: 60395401007)
- MW-37-031522 (Lab ID: 60395401001)
- MW-38-031522 (Lab ID: 60395401002)
- MW-39-031522 (Lab ID: 60395401003)
- MW-40-031522 (Lab ID: 60395401004)
- MW-K-031522 (Lab ID: 60395401005)
- MW-L-031522 (Lab ID: 60395401006)

Method Blank:

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

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits 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: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60395401

Method: SM 4500-H+B

Description: 4500H+ pH, Electrometric

Client: Evergy Kansas Central, Inc.

Date: April 13, 2022

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.

H6: Analysis initiated outside of the 15 minute EPA required holding time.

- MW-37-031522 (Lab ID: 60395401001)
- MW-38-031522 (Lab ID: 60395401002)
- MW-39-031522 (Lab ID: 60395401003)
- MW-40-031522 (Lab ID: 60395401004)
- MW-K-031522 (Lab ID: 60395401005)
- MW-L-031522 (Lab ID: 60395401006)

Method Blank:

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

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits 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: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60395401

Method: SM 4500-S-2 D

Description: 4500S2D Sulfide, Total

Client: Evergy Kansas Central, Inc.

Date: April 13, 2022

General Information:

7 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: 776933

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60395394012

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

- MS (Lab ID: 3100230)
 - Sulfide, Total
- MSD (Lab ID: 3100231)
 - 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: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60395401

Method: EPA 300.0

Description: 300.0 IC Anions 28 Days

Client: Evergy Kansas Central, Inc.

Date: April 13, 2022

General Information:

7 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: 777765

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60395436004,60395902001

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

- MS (Lab ID: 3103185)
 - Fluoride
 - Sulfate
- MSD (Lab ID: 3103186)
 - Chloride

R1: RPD value was outside control limits.

- MSD (Lab ID: 3103186)
 - Chloride
 - Fluoride
 - Sulfate

QC Batch: 777946

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60395535002,60395645004

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

- MS (Lab ID: 3103861)
 - Sulfate
- MSD (Lab ID: 3103862)
 - Sulfate

QC Batch: 778207

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60395573003

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

- MSD (Lab ID: 3104685)
 - Chloride

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PROJECT NARRATIVE

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60395401

Method: EPA 300.0

Description: 300.0 IC Anions 28 Days

Client: Evergy Kansas Central, Inc.

Date: April 13, 2022

QC Batch: 778207

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60395573003

R1: RPD value was outside control limits.

- MSD (Lab ID: 3104685)
- Chloride

Duplicate Sample:

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

Additional Comments:

Analyte Comments:

QC Batch: 777946

E: Analyte concentration exceeded the calibration range. The reported result is estimated.

- MS (Lab ID: 3103863)
- Chloride

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PROJECT NARRATIVE

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60395401

Method: SM 5310C

Description: 5310C TOC

Client: Evergy Kansas Central, Inc.

Date: April 13, 2022

General Information:

7 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: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60395401

Method: SM 5310C

Description: 5310C Diss. Organic Carbon LF

Client: Evergy Kansas Central, Inc.

Date: April 13, 2022

General Information:

7 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: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60395401

Sample: MW-37-031522	Lab ID: 60395401001	Collected: 03/15/22 17:22	Received: 03/17/22 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								
Iron, Total Recoverable	6.3	mg/L	0.050	1	03/25/22 10:07	03/27/22 14:09	7439-89-6	
Magnesium, Total Recoverable	22.6	mg/L	0.050	1	03/25/22 10:07	03/27/22 14:09	7439-95-4	
Manganese, Total Recoverable	1.3	mg/L	0.0050	1	03/25/22 10:07	03/27/22 14:09	7439-96-5	
Potassium, Total Recoverable	8.5	mg/L	0.50	1	03/25/22 10:07	03/27/22 14:09	7440-09-7	
Sodium, Total Recoverable	80.0	mg/L	0.50	1	03/25/22 10:07	03/27/22 14:09	7440-23-5	
Total Hardness by 2340B, Total Recoverable	643	mg/L	1.5	3	03/25/22 10:07	03/28/22 23:08		
200.7 Metals, Dissolved								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Arsenic, Dissolved	<0.010	mg/L	0.010	1	03/28/22 09:40	03/28/22 20:00	7440-38-2	
Iron, Dissolved	2.1	mg/L	0.050	1	03/28/22 09:40	03/28/22 20:00	7439-89-6	
Manganese, Dissolved	1.1	mg/L	0.0050	1	03/28/22 09:40	03/28/22 20:00	7439-96-5	
Molybdenum, Dissolved	0.086	mg/L	0.020	1	03/28/22 09:40	03/28/22 20:00	7439-98-7	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Total Recoverable	<0.030	mg/L	0.030	3	03/29/22 12:21	03/31/22 16:21	7439-93-2	
6010 MET ICP, Dissolved								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Dissolved	<0.030	mg/L	0.030	3	03/29/22 13:22	03/31/22 16:58	7439-93-2	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Kansas City								
Alkalinity,Bicarbonate (CaCO3)	395	mg/L	20.0	1		03/24/22 20:46		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	20.0	1		03/24/22 20:46		
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Kansas City								
Total Dissolved Solids	912	mg/L	125	1		03/25/22 15:21		H1
Iron, Ferrous								
Analytical Method: SM 3500-Fe B#4								
Pace Analytical Services - Kansas City								
Iron, Ferrous	<0.20	mg/L	0.20	1		03/28/22 09:50	15438-31-0	H6
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		03/24/22 10:22		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		03/22/22 17:24	18496-25-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60395401

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Sample: MW-37-031522 Lab ID: 60395401001 Collected: 03/15/22 17:22 Received: 03/17/22 16:00 Matrix: Water								
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0								
Pace Analytical Services - Kansas City								
Chloride	41.0	mg/L	5.0	5		03/30/22 15:47	16887-00-6	
Fluoride	<0.20	mg/L	0.20	1		03/30/22 03:13	16984-48-8	
Sulfate	347	mg/L	20.0	20		03/30/22 03:55	14808-79-8	
5310C TOC								
Analytical Method: SM 5310C								
Pace Analytical Services - Indianapolis								
Total Organic Carbon	2.8	mg/L	1.0	1		04/06/22 23:22	7440-44-0	
5310C Diss. Organic Carbon LF								
Analytical Method: SM 5310C								
Pace Analytical Services - Kansas City								
Dissolved Organic Carbon	3.4	mg/L	1.0	1		04/07/22 18:57		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60395401

Sample: MW-38-031522	Lab ID: 60395401002	Collected: 03/15/22 18:15	Received: 03/17/22 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								
Iron, Total Recoverable	2.0	mg/L	0.050	1	03/25/22 10:07	03/27/22 14:12	7439-89-6	
Magnesium, Total Recoverable	76.4	mg/L	0.15	3	03/25/22 10:07	03/28/22 23:10	7439-95-4	
Manganese, Total Recoverable	0.49	mg/L	0.0050	1	03/25/22 10:07	03/27/22 14:12	7439-96-5	
Potassium, Total Recoverable	24.7	mg/L	0.50	1	03/25/22 10:07	03/27/22 14:12	7440-09-7	
Sodium, Total Recoverable	207	mg/L	0.50	1	03/25/22 10:07	03/27/22 14:12	7440-23-5	
Total Hardness by 2340B, Total Recoverable	859	mg/L	1.5	3	03/25/22 10:07	03/28/22 23:10		
200.7 Metals, Dissolved								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Arsenic, Dissolved	0.016	mg/L	0.010	1	03/28/22 09:40	03/28/22 20:02	7440-38-2	
Iron, Dissolved	1.7	mg/L	0.050	1	03/28/22 09:40	03/28/22 20:02	7439-89-6	
Manganese, Dissolved	0.44	mg/L	0.0050	1	03/28/22 09:40	03/28/22 20:02	7439-96-5	
Molybdenum, Dissolved	0.069	mg/L	0.020	1	03/28/22 09:40	03/28/22 20:02	7439-98-7	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Total Recoverable	0.058	mg/L	0.030	3	03/29/22 12:21	03/31/22 16:23	7439-93-2	
6010 MET ICP, Dissolved								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Dissolved	0.058	mg/L	0.030	3	03/29/22 13:22	03/31/22 17:00	7439-93-2	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Kansas City								
Alkalinity,Bicarbonate (CaCO3)	345	mg/L	20.0	1		03/24/22 20:52		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	20.0	1		03/24/22 20:52		
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Kansas City								
Total Dissolved Solids	1210	mg/L	13.3	1		03/22/22 15:58		
Iron, Ferrous								
Analytical Method: SM 3500-Fe B#4								
Pace Analytical Services - Kansas City								
Iron, Ferrous	<0.20	mg/L	0.20	1		03/28/22 09:50	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		03/24/22 10:26		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		03/22/22 17:25	18496-25-8	

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ANALYTICAL RESULTS

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60395401

Sample: MW-38-031522		Lab ID: 60395401002		Collected: 03/15/22 18:15	Received: 03/17/22 16:00	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City						
Chloride	118	mg/L	20.0	20		03/25/22 23:51	16887-00-6	
Fluoride	3.9	mg/L	0.20	1		03/25/22 23:37	16984-48-8	
Sulfate	629	mg/L	100	100		03/26/22 12:08	14808-79-8	
5310C TOC		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis						
Total Organic Carbon	2.8	mg/L	1.0	1		04/06/22 23:45	7440-44-0	
5310C Diss. Organic Carbon LF		Analytical Method: SM 5310C Pace Analytical Services - Kansas City						
Dissolved Organic Carbon	2.6	mg/L	1.0	1		04/07/22 19:26		

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ANALYTICAL RESULTS

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60395401

Sample: MW-39-031522	Lab ID: 60395401003	Collected: 03/15/22 14:40	Received: 03/17/22 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								
Iron, Total Recoverable	0.73	mg/L	0.050	1	03/25/22 10:07	03/27/22 14:18	7439-89-6	
Magnesium, Total Recoverable	46.5	mg/L	0.050	1	03/25/22 10:07	03/27/22 14:18	7439-95-4	
Manganese, Total Recoverable	2.9	mg/L	0.0050	1	03/25/22 10:07	03/27/22 14:18	7439-96-5	
Potassium, Total Recoverable	24.5	mg/L	0.50	1	03/25/22 10:07	03/27/22 14:18	7440-09-7	
Sodium, Total Recoverable	382	mg/L	0.50	1	03/25/22 10:07	03/27/22 14:18	7440-23-5	
Total Hardness by 2340B, Total Recoverable	1630	mg/L	5.0	10	03/25/22 10:07	03/28/22 23:12		
200.7 Metals, Dissolved								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Arsenic, Dissolved	0.015	mg/L	0.010	1	03/28/22 09:40	03/28/22 20:07	7440-38-2	
Iron, Dissolved	0.66	mg/L	0.050	1	03/28/22 09:40	03/28/22 20:07	7439-89-6	
Manganese, Dissolved	2.7	mg/L	0.0050	1	03/28/22 09:40	03/28/22 20:07	7439-96-5	
Molybdenum, Dissolved	0.21	mg/L	0.020	1	03/28/22 09:40	03/28/22 20:07	7439-98-7	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Total Recoverable	<0.10	mg/L	0.10	10	03/29/22 12:21	03/31/22 16:25	7439-93-2	
6010 MET ICP, Dissolved								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Dissolved	<0.10	mg/L	0.10	10	03/29/22 13:22	03/31/22 17:02	7439-93-2	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Kansas City								
Alkalinity,Bicarbonate (CaCO3)	171	mg/L	20.0	1		03/24/22 21:10		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	20.0	1		03/24/22 21:10		
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Kansas City								
Total Dissolved Solids	1370	mg/L	66.7	1		03/22/22 15:58		
Iron, Ferrous								
Analytical Method: SM 3500-Fe B#4								
Pace Analytical Services - Kansas City								
Iron, Ferrous	<0.20	mg/L	0.20	1		03/28/22 09:41	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		03/24/22 10:12		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		03/22/22 17:25	18496-25-8	

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ANALYTICAL RESULTS

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60395401

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Sample: MW-39-031522 Lab ID: 60395401003 Collected: 03/15/22 14:40 Received: 03/17/22 16:00 Matrix: Water								
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0								
Pace Analytical Services - Kansas City								
Chloride	605	mg/L	50.0	50		03/26/22 12:22	16887-00-6	
Fluoride	1.0	mg/L	0.20	1		03/26/22 00:05	16984-48-8	
Sulfate	1560	mg/L	200	200		03/26/22 12:36	14808-79-8	
5310C TOC								
Analytical Method: SM 5310C								
Pace Analytical Services - Indianapolis								
Total Organic Carbon	4.4	mg/L	4.0	4		04/07/22 08:58	7440-44-0	
5310C Diss. Organic Carbon LF								
Analytical Method: SM 5310C								
Pace Analytical Services - Kansas City								
Dissolved Organic Carbon	2.1	mg/L	1.0	1		04/07/22 19:40		

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ANALYTICAL RESULTS

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60395401

Sample: MW-40-031522	Lab ID: 60395401004	Collected: 03/15/22 14:30	Received: 03/17/22 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								
Iron, Total Recoverable	6.1	mg/L	0.050	1	03/25/22 10:07	03/27/22 14:20	7439-89-6	
Magnesium, Total Recoverable	41.1	mg/L	0.050	1	03/25/22 10:07	03/27/22 14:20	7439-95-4	
Manganese, Total Recoverable	2.5	mg/L	0.0050	1	03/25/22 10:07	03/27/22 14:20	7439-96-5	
Potassium, Total Recoverable	23.1	mg/L	0.50	1	03/25/22 10:07	03/27/22 14:20	7440-09-7	
Sodium, Total Recoverable	274	mg/L	0.50	1	03/25/22 10:07	03/27/22 14:20	7440-23-5	
Total Hardness by 2340B, Total Recoverable	1270	mg/L	5.0	10	03/25/22 10:07	03/28/22 23:14		
200.7 Metals, Dissolved								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Arsenic, Dissolved	0.014	mg/L	0.010	1	03/28/22 09:40	03/28/22 20:09	7440-38-2	
Iron, Dissolved	5.5	mg/L	0.050	1	03/28/22 09:40	03/28/22 20:09	7439-89-6	
Manganese, Dissolved	2.3	mg/L	0.0050	1	03/28/22 09:40	03/28/22 20:09	7439-96-5	
Molybdenum, Dissolved	0.066	mg/L	0.020	1	03/28/22 09:40	03/28/22 20:09	7439-98-7	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Total Recoverable	<0.10	mg/L	0.10	10	03/29/22 12:21	03/31/22 16:28	7439-93-2	
6010 MET ICP, Dissolved								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Dissolved	<0.050	mg/L	0.050	5	03/29/22 13:22	03/31/22 17:04	7439-93-2	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Kansas City								
Alkalinity, Bicarbonate (CaCO ₃)	176	mg/L	20.0	1		03/24/22 21:16		
Alkalinity, Carbonate (CaCO ₃)	ND	mg/L	20.0	1		03/24/22 21:16		
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Kansas City								
Total Dissolved Solids	2420	mg/L	40.0	1		03/22/22 16:00		
Iron, Ferrous								
Analytical Method: SM 3500-Fe B#4								
Pace Analytical Services - Kansas City								
Iron, Ferrous	<0.20	mg/L	0.20	1		03/28/22 09:41	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		03/24/22 10:07		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		03/22/22 17:27	18496-25-8	

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ANALYTICAL RESULTS

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60395401

Sample: MW-40-031522	Lab ID: 60395401004	Collected: 03/15/22 14:30	Received: 03/17/22 16:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City						
Chloride	249	mg/L	20.0	20		03/26/22 01:16	16887-00-6	
Fluoride	0.85	mg/L	0.20	1		03/26/22 00:33	16984-48-8	
Sulfate	1230	mg/L	200	200		03/26/22 13:19	14808-79-8	
5310C TOC		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis						
Total Organic Carbon	2.3	mg/L	1.0	1		04/07/22 00:32	7440-44-0	
5310C Diss. Organic Carbon LF		Analytical Method: SM 5310C Pace Analytical Services - Kansas City						
Dissolved Organic Carbon	1.8	mg/L	1.0	1		04/07/22 20:09		

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ANALYTICAL RESULTS

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60395401

Sample: MW-K-031522	Lab ID: 60395401005	Collected: 03/15/22 15:55	Received: 03/17/22 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								
Iron, Total Recoverable	6.2	mg/L	0.050	1	03/25/22 10:07	03/27/22 14:22	7439-89-6	
Magnesium, Total Recoverable	72.7	mg/L	0.15	3	03/25/22 10:07	03/28/22 23:17	7439-95-4	
Manganese, Total Recoverable	1.2	mg/L	0.0050	1	03/25/22 10:07	03/27/22 14:22	7439-96-5	
Potassium, Total Recoverable	33.6	mg/L	0.50	1	03/25/22 10:07	03/27/22 14:22	7440-09-7	
Sodium, Total Recoverable	248	mg/L	0.50	1	03/25/22 10:07	03/27/22 14:22	7440-23-5	
Total Hardness by 2340B, Total Recoverable	865	mg/L	1.5	3	03/25/22 10:07	03/28/22 23:17		
200.7 Metals, Dissolved								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Arsenic, Dissolved	0.054	mg/L	0.010	1	03/28/22 09:40	03/28/22 20:11	7440-38-2	
Iron, Dissolved	2.0	mg/L	0.050	1	03/28/22 09:40	03/28/22 20:11	7439-89-6	
Manganese, Dissolved	1.1	mg/L	0.0050	1	03/28/22 09:40	03/28/22 20:11	7439-96-5	
Molybdenum, Dissolved	0.036	mg/L	0.020	1	03/28/22 09:40	03/28/22 20:11	7439-98-7	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Total Recoverable	0.051	mg/L	0.030	3	03/29/22 12:21	03/31/22 16:30	7439-93-2	
6010 MET ICP, Dissolved								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Dissolved	0.050	mg/L	0.030	3	03/29/22 13:22	03/31/22 17:07	7439-93-2	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Kansas City								
Alkalinity, Bicarbonate (CaCO ₃)	333	mg/L	20.0	1		03/24/22 21:21		
Alkalinity, Carbonate (CaCO ₃)	ND	mg/L	20.0	1		03/24/22 21:21		
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Kansas City								
Total Dissolved Solids	1760	mg/L	20.0	1		03/22/22 15:59		
Iron, Ferrous								
Analytical Method: SM 3500-Fe B#4								
Pace Analytical Services - Kansas City								
Iron, Ferrous	<0.20	mg/L	0.20	1		03/28/22 09:42	15438-31-0	H6
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		03/24/22 10:19		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		03/22/22 17:27	18496-25-8	

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ANALYTICAL RESULTS

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60395401

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Sample: MW-K-031522 Lab ID: 60395401005 Collected: 03/15/22 15:55 Received: 03/17/22 16:00 Matrix: Water								
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0								
Pace Analytical Services - Kansas City								
Chloride	190	mg/L	20.0	20		03/26/22 01:44	16887-00-6	
Fluoride	3.7	mg/L	0.20	1		03/26/22 01:30	16984-48-8	
Sulfate	686	mg/L	200	200		03/26/22 13:33	14808-79-8	
5310C TOC								
Analytical Method: SM 5310C								
Pace Analytical Services - Indianapolis								
Total Organic Carbon	4.3	mg/L	1.0	1		04/07/22 00:45	7440-44-0	
5310C Diss. Organic Carbon LF								
Analytical Method: SM 5310C								
Pace Analytical Services - Kansas City								
Dissolved Organic Carbon	5.0	mg/L	1.0	1		04/07/22 20:23		

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ANALYTICAL RESULTS

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60395401

Sample: MW-L-031522	Lab ID: 60395401006	Collected: 03/15/22 15:45	Received: 03/17/22 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								
Iron, Total Recoverable	7.8	mg/L	0.050	1	03/25/22 10:07	03/27/22 14:25	7439-89-6	
Magnesium, Total Recoverable	167	mg/L	0.50	10	03/25/22 10:07	03/28/22 23:19	7439-95-4	
Manganese, Total Recoverable	5.1	mg/L	0.0050	1	03/25/22 10:07	03/27/22 14:25	7439-96-5	
Potassium, Total Recoverable	30.7	mg/L	0.50	1	03/25/22 10:07	03/27/22 14:25	7440-09-7	
Sodium, Total Recoverable	468	mg/L	5.0	10	03/25/22 10:07	03/28/22 23:19	7440-23-5	
Total Hardness by 2340B, Total Recoverable	2020	mg/L	5.0	10	03/25/22 10:07	03/28/22 23:19		
200.7 Metals, Dissolved								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Arsenic, Dissolved	0.022	mg/L	0.010	1	03/28/22 09:40	03/28/22 20:13	7440-38-2	
Iron, Dissolved	7.0	mg/L	0.050	1	03/28/22 09:40	03/28/22 20:13	7439-89-6	
Manganese, Dissolved	4.6	mg/L	0.0050	1	03/28/22 09:40	03/28/22 20:13	7439-96-5	
Molybdenum, Dissolved	0.040	mg/L	0.020	1	03/28/22 09:40	03/28/22 20:13	7439-98-7	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Total Recoverable	<0.10	mg/L	0.10	10	03/29/22 12:21	03/31/22 16:32	7439-93-2	
6010 MET ICP, Dissolved								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Dissolved	<0.10	mg/L	0.10	10	03/29/22 13:22	03/31/22 17:16	7439-93-2	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Kansas City								
Alkalinity,Bicarbonate (CaCO3)	226	mg/L	20.0	1		03/24/22 21:28		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	20.0	1		03/24/22 21:28		
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Kansas City								
Total Dissolved Solids	3260	mg/L	100	1		03/22/22 15:59		
Iron, Ferrous								
Analytical Method: SM 3500-Fe B#4								
Pace Analytical Services - Kansas City								
Iron, Ferrous	<0.20	mg/L	0.20	1		03/28/22 09:42	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		03/24/22 10:15		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		03/22/22 17:29	18496-25-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60395401

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Sample: MW-L-031522 Lab ID: 60395401006 Collected: 03/15/22 15:45 Received: 03/17/22 16:00 Matrix: Water								
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0								
Pace Analytical Services - Kansas City								
Chloride	668	mg/L	50.0	50		03/26/22 13:47	16887-00-6	
Fluoride	<0.20	mg/L	0.20	1		03/26/22 01:58	16984-48-8	
Sulfate	1920	mg/L	200	200		03/26/22 14:01	14808-79-8	
5310C TOC								
Analytical Method: SM 5310C								
Pace Analytical Services - Indianapolis								
Total Organic Carbon	8.6	mg/L	4.0	4		04/07/22 09:10	7440-44-0	
5310C Diss. Organic Carbon LF								
Analytical Method: SM 5310C								
Pace Analytical Services - Kansas City								
Dissolved Organic Carbon	2.3	mg/L	1.0	1		04/07/22 20:38		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60395401

Sample: DUP-AP-031522	Lab ID: 60395401007	Collected: 03/15/22 15:55	Received: 03/17/22 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								
Iron, Total Recoverable	2.0	mg/L	0.050	1	03/25/22 10:07	03/27/22 14:27	7439-89-6	
Magnesium, Total Recoverable	66.2	mg/L	0.15	3	03/25/22 10:07	03/28/22 23:21	7439-95-4	
Manganese, Total Recoverable	1.3	mg/L	0.0050	1	03/25/22 10:07	03/27/22 14:27	7439-96-5	
Potassium, Total Recoverable	30.8	mg/L	0.50	1	03/25/22 10:07	03/27/22 14:27	7440-09-7	
Sodium, Total Recoverable	235	mg/L	0.50	1	03/25/22 10:07	03/27/22 14:27	7440-23-5	
Total Hardness by 2340B, Total Recoverable	877	mg/L	1.5	3	03/25/22 10:07	03/28/22 23:21		
200.7 Metals, Dissolved								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Arsenic, Dissolved	0.050	mg/L	0.010	1	03/28/22 09:40	03/28/22 20:16	7440-38-2	
Iron, Dissolved	1.8	mg/L	0.050	1	03/28/22 09:40	03/28/22 20:16	7439-89-6	
Manganese, Dissolved	1.1	mg/L	0.0050	1	03/28/22 09:40	03/28/22 20:16	7439-96-5	
Molybdenum, Dissolved	0.035	mg/L	0.020	1	03/28/22 09:40	03/28/22 20:16	7439-98-7	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Total Recoverable	0.050	mg/L	0.030	3	03/29/22 12:21	03/31/22 16:34	7439-93-2	
6010 MET ICP, Dissolved								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Dissolved	0.049	mg/L	0.030	3	03/29/22 13:22	03/31/22 17:18	7439-93-2	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Kansas City								
Alkalinity, Bicarbonate (CaCO ₃)	331	mg/L	20.0	1		03/24/22 21:34		
Alkalinity, Carbonate (CaCO ₃)	ND	mg/L	20.0	1		03/24/22 21:34		
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Kansas City								
Total Dissolved Solids	1750	mg/L	20.0	1		03/22/22 15:59		
Iron, Ferrous								
Analytical Method: SM 3500-Fe B#4								
Pace Analytical Services - Kansas City								
Iron, Ferrous	<0.20	mg/L	0.20	1		03/28/22 09:49	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		03/22/22 17:29	18496-25-8	
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0								
Pace Analytical Services - Kansas City								
Chloride	181	mg/L	20.0	20		03/28/22 19:39	16887-00-6	
Fluoride	3.7	mg/L	0.20	1		03/28/22 19:25	16984-48-8	
Sulfate	651	mg/L	200	200		03/28/22 19:53	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60395401

Sample: DUP-AP-031522		Lab ID: 60395401007		Collected: 03/15/22 15:55	Received: 03/17/22 16:00	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
5310C TOC		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis						
Total Organic Carbon	4.2	mg/L	1.0	1		04/07/22 01:15	7440-44-0	
5310C Diss. Organic Carbon LF		Analytical Method: SM 5310C Pace Analytical Services - Kansas City						
Dissolved Organic Carbon	3.2	mg/L	1.0	1		04/07/22 21:21		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: LEC INACTIVE ASH PONDS CCR
Pace Project No.: 60395401

QC Batch: 777650 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: 60395401001, 60395401002, 60395401003, 60395401004, 60395401005, 60395401006, 60395401007

METHOD BLANK: 3102797 Matrix: Water
Associated Lab Samples: 60395401001, 60395401002, 60395401003, 60395401004, 60395401005, 60395401006, 60395401007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hardness, Total(SM 2340B)	mg/L	<0.50	0.50	03/27/22 13:28	
Iron	mg/L	<0.050	0.050	03/27/22 13:28	
Magnesium	mg/L	<0.050	0.050	03/27/22 13:28	
Manganese	mg/L	<0.0050	0.0050	03/27/22 13:28	
Potassium	mg/L	<0.50	0.50	03/27/22 13:28	
Sodium	mg/L	<0.50	0.50	03/27/22 13:28	

LABORATORY CONTROL SAMPLE: 3102798

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Hardness, Total(SM 2340B)	mg/L	66.2	68.6	104	85-115	
Iron	mg/L	10	10.3	103	85-115	
Magnesium	mg/L	10	10.4	104	85-115	
Manganese	mg/L	1	1.0	103	85-115	
Potassium	mg/L	10	9.8	98	85-115	
Sodium	mg/L	10	10.1	101	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3102799 3102800

Parameter	Units	60395298001		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
Hardness, Total(SM 2340B)	mg/L	808000 ug/L	66.2	66.2	908	904	151	145	70-130	0	20		
Iron	mg/L	3090 ug/L	10	10	13.6	13.5	105	105	70-130	0	20		
Magnesium	mg/L	75600 ug/L	10	10	88.9	88.2	133	126	70-130	1	20 M1		
Manganese	mg/L	93.3 ug/L	1	1	1.1	1.1	103	101	70-130	1	20		
Potassium	mg/L	32700 ug/L	10	10	45.0	44.7	123	120	70-130	1	20		
Sodium	mg/L	362000 ug/L	10	10	405	399	433	372	70-130	2	20 M1		

MATRIX SPIKE SAMPLE: 3102801

Parameter	Units	60395398005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Hardness, Total(SM 2340B)	mg/L		66.2	878	82	70-130	
Iron	mg/L		10	14.5	102	70-130	

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QUALITY CONTROL DATA

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60395401

MATRIX SPIKE SAMPLE:		3102801					
Parameter	Units	60395398005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Magnesium	mg/L		10	77.4	84	70-130	
Manganese	mg/L		1	2.0	96	70-130	
Potassium	mg/L		10	42.3	105	70-130	
Sodium	mg/L		10	235	148	70-130	M1

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QUALITY CONTROL DATA

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60395401

QC Batch:	778024	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: 60395401001, 60395401002, 60395401003, 60395401004, 60395401005, 60395401006, 60395401007

METHOD BLANK: 3104166 Matrix: Water
Associated Lab Samples: 60395401001, 60395401002, 60395401003, 60395401004, 60395401005, 60395401006, 60395401007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic, Dissolved	mg/L	<0.010	0.010	03/28/22 19:24	
Iron, Dissolved	mg/L	<0.050	0.050	03/28/22 19:24	
Manganese, Dissolved	mg/L	<0.0050	0.0050	03/28/22 19:24	
Molybdenum, Dissolved	mg/L	<0.020	0.020	03/28/22 19:24	

LABORATORY CONTROL SAMPLE: 3104167

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic, Dissolved	mg/L	1	0.90	90	85-115	
Iron, Dissolved	mg/L	10	9.4	94	85-115	
Manganese, Dissolved	mg/L	1	0.95	95	85-115	
Molybdenum, Dissolved	mg/L	1	0.99	99	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3104168 3104169

Parameter	Units	60395394016		3104169		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Arsenic, Dissolved	mg/L	<0.010	1	1	0.92	0.93	92	93	70-130	2	20
Iron, Dissolved	mg/L	0.57	10	10	9.8	9.6	93	90	70-130	2	20
Manganese, Dissolved	mg/L	0.19	1	1	1.1	1.1	94	92	70-130	2	20
Molybdenum, Dissolved	mg/L	0.029	1	1	1.0	1.1	99	105	70-130	6	20

MATRIX SPIKE SAMPLE: 3104170

Parameter	Units	60395401002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic, Dissolved	mg/L	0.016	1	0.97	96	70-130	
Iron, Dissolved	mg/L	1.7	10	10.6	88	70-130	
Manganese, Dissolved	mg/L	0.44	1	1.3	91	70-130	
Molybdenum, Dissolved	mg/L	0.069	1	1.1	104	70-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60395401

QC Batch:	778343	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET
		Laboratory:	Pace Analytical Services - Kansas City

Associated Lab Samples: 60395401001, 60395401002, 60395401003, 60395401004, 60395401005, 60395401006, 60395401007

METHOD BLANK: 3105142 Matrix: Water

Associated Lab Samples: 60395401001, 60395401002, 60395401003, 60395401004, 60395401005, 60395401006, 60395401007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lithium	mg/L	<0.010	0.010	03/31/22 12:37	

LABORATORY CONTROL SAMPLE: 3105143

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lithium	mg/L	1	0.86	86	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3105144 3105145

Parameter	Units	60395394021 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	0.91	0.92	89	90	75-125	1	20	

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QUALITY CONTROL DATA

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60395401

QC Batch:	778391	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET Dissolved
		Laboratory:	Pace Analytical Services - Kansas City

Associated Lab Samples: 60395401001, 60395401002, 60395401003, 60395401004, 60395401005, 60395401006, 60395401007

METHOD BLANK: 3105349 Matrix: Water
Associated Lab Samples: 60395401001, 60395401002, 60395401003, 60395401004, 60395401005, 60395401006, 60395401007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lithium, Dissolved	mg/L	<0.010	0.010	03/31/22 13:45	

LABORATORY CONTROL SAMPLE: 3105350

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lithium, Dissolved	mg/L	1	0.88	88	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3105351 3105352

Parameter	Units	3105351		3105352		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		60395394021 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Lithium, Dissolved	mg/L	<0.020	1	1	0.95	0.94	93	92	75-125	1	20

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QUALITY CONTROL DATA

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60395401

QC Batch:	777562	Analysis Method:	SM 2320B
QC Batch Method:	SM 2320B	Analysis Description:	2320B Alkalinity
		Laboratory:	Pace Analytical Services - Kansas City

Associated Lab Samples: 60395401001, 60395401002, 60395401003, 60395401004, 60395401005, 60395401006, 60395401007

METHOD BLANK: 3102421 Matrix: Water

Associated Lab Samples: 60395401001, 60395401002, 60395401003, 60395401004, 60395401005, 60395401006, 60395401007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	20.0	03/24/22 20:21	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	20.0	03/24/22 20:21	

SAMPLE DUPLICATE: 3102423

Parameter	Units	60395394020 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity,Bicarbonate (CaCO3)	mg/L	294	291	1	10	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	ND		10	

SAMPLE DUPLICATE: 3102864

Parameter	Units	60395262001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity,Bicarbonate (CaCO3)	mg/L	628	630	0	10	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	ND		10	

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QUALITY CONTROL DATA

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60395401

QC Batch:	776869	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Kansas City

Associated Lab Samples: 60395401002, 60395401003, 60395401004, 60395401005, 60395401006, 60395401007

METHOD BLANK: 3100015 Matrix: Water
Associated Lab Samples: 60395401002, 60395401003, 60395401004, 60395401005, 60395401006, 60395401007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<5.0	5.0	03/22/22 15:58	

LABORATORY CONTROL SAMPLE: 3100016

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	1000	962	96	80-120	

SAMPLE DUPLICATE: 3100017

Parameter	Units	60395432001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1040	1040	0	10	

SAMPLE DUPLICATE: 3100018

Parameter	Units	60395566004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1050	1030	2	10	

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QUALITY CONTROL DATA

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60395401

QC Batch: 777868

Analysis Method: SM 2540C

QC Batch Method: SM 2540C

Analysis Description: 2540C Total Dissolved Solids

Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60395401001

METHOD BLANK: 3103512

Matrix: Water

Associated Lab Samples: 60395401001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<5.0	5.0	03/25/22 15:21	

LABORATORY CONTROL SAMPLE: 3103513

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	1000	959	96	80-120	

SAMPLE DUPLICATE: 3103514

Parameter	Units	60394995007 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	6810	6510	5	10	H1

SAMPLE DUPLICATE: 3103515

Parameter	Units	60395573003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	787	798	1	10	

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QUALITY CONTROL DATA

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60395401

QC Batch: 777952

Analysis Method: SM 3500-Fe B#4

QC Batch Method: SM 3500-Fe B#4

Analysis Description: Iron, Ferrous

Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60395401001, 60395401002, 60395401003, 60395401004, 60395401005, 60395401006, 60395401007

METHOD BLANK: 3104011

Matrix: Water

Associated Lab Samples: 60395401001, 60395401002, 60395401003, 60395401004, 60395401005, 60395401006, 60395401007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron, Ferrous	mg/L	<0.20	0.20	03/28/22 09:38	H6

LABORATORY CONTROL SAMPLE: 3104012

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Ferrous	mg/L	2	1.9	96	90-110	H6

SAMPLE DUPLICATE: 3104013

Parameter	Units	60395394019 Result	Dup Result	RPD	Max RPD	Qualifiers
Iron, Ferrous	mg/L	0.36	0.36	1	20	H6

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QUALITY CONTROL DATA

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60395401

QC Batch: 777234

Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B

Analysis Description: 4500H+B pH

Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60395401001, 60395401002, 60395401003, 60395401004, 60395401005, 60395401006

SAMPLE DUPLICATE: 3101236

Parameter	Units	60395291006 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.5	7.3	3	5	H6

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QUALITY CONTROL DATA

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60395401

QC Batch:	776933	Analysis Method:	SM 4500-S-2 D
QC Batch Method:	SM 4500-S-2 D	Analysis Description:	4500S2D Sulfide, Total
		Laboratory:	Pace Analytical Services - Kansas City

Associated Lab Samples: 60395401001, 60395401002, 60395401003, 60395401004, 60395401005, 60395401006, 60395401007

METHOD BLANK:	3100228	Matrix:	Water
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Associated Lab Samples: 60395401001, 60395401002, 60395401003, 60395401004, 60395401005, 60395401006, 60395401007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide, Total	mg/L	<0.050	0.050	03/22/22 16:40	

LABORATORY CONTROL SAMPLE: 3100229						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	0.5	0.52	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3100230												3100231	
Parameter	Units	60395394012 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	0.27	0.27	54	54	75-125	0	20	M1	

SAMPLE DUPLICATE: 3100232						
Parameter	Units	60395394019 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	<0.050	<0.050		20	

SAMPLE DUPLICATE: 3100233						
Parameter	Units	60395432001 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	ND	<0.050		20	

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QUALITY CONTROL DATA

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60395401

QC Batch: 777765 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: 60395401002, 60395401003, 60395401004, 60395401005, 60395401006

METHOD BLANK: 3103183 Matrix: Water
 Associated Lab Samples: 60395401002, 60395401003, 60395401004, 60395401005, 60395401006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<1.0	1.0	03/25/22 16:47	
Fluoride	mg/L	<0.20	0.20	03/25/22 16:47	
Sulfate	mg/L	<1.0	1.0	03/25/22 16:47	

METHOD BLANK: 3104273 Matrix: Water
 Associated Lab Samples: 60395401002, 60395401003, 60395401004, 60395401005, 60395401006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<1.0	1.0	03/26/22 08:51	
Fluoride	mg/L	<0.20	0.20	03/26/22 08:51	
Sulfate	mg/L	<1.0	1.0	03/26/22 08:51	

LABORATORY CONTROL SAMPLE: 3103184

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.9	97	90-110	
Fluoride	mg/L	2.5	2.6	103	90-110	
Sulfate	mg/L	5	4.9	99	90-110	

LABORATORY CONTROL SAMPLE: 3104274

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.8	96	90-110	
Fluoride	mg/L	2.5	2.5	102	90-110	
Sulfate	mg/L	5	4.9	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3103185 3103186

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		60395902001 Result	Spike Conc.	Spike Conc.	Conc.								
Chloride	mg/L	308	250	500	559	694	100	77	80-120	22	15	M1,R1	
Fluoride	mg/L	ND	125	250	186	256	149	103	80-120	32	15	M1,R1	
Sulfate	mg/L	181	250	500	486	624	122	89	80-120	25	15	M1,R1	

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QUALITY CONTROL DATA

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60395401

MATRIX SPIKE SAMPLE:		3103187					
Parameter	Units	60395436004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	0.66J	5	5.6	98	80-120	
Fluoride	mg/L	1.7	2.5	4.6	114	80-120	
Sulfate	mg/L	616	500	1100	98	80-120	

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QUALITY CONTROL DATA

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60395401

QC Batch:	777946	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: 60395401007

METHOD BLANK: 3103859 Matrix: Water

Associated Lab Samples: 60395401007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<1.0	1.0	03/28/22 16:08	
Fluoride	mg/L	<0.20	0.20	03/28/22 16:08	
Sulfate	mg/L	<1.0	1.0	03/28/22 16:08	

METHOD BLANK: 3105333 Matrix: Water

Associated Lab Samples: 60395401007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<1.0	1.0	03/29/22 09:05	
Fluoride	mg/L	<0.20	0.20	03/29/22 09:05	
Sulfate	mg/L	<1.0	1.0	03/29/22 09:05	

METHOD BLANK: 3106192 Matrix: Water

Associated Lab Samples: 60395401007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<1.0	1.0	03/29/22 09:08	
Fluoride	mg/L	<0.20	0.20	03/29/22 09:08	
Sulfate	mg/L	<1.0	1.0	03/29/22 09:08	

METHOD BLANK: 3106335 Matrix: Water

Associated Lab Samples: 60395401007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<1.0	1.0	03/30/22 08:56	
Fluoride	mg/L	<0.20	0.20	03/30/22 08:56	
Sulfate	mg/L	<1.0	1.0	03/30/22 08:56	

LABORATORY CONTROL SAMPLE: 3103860

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	2.5	102	90-110	

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QUALITY CONTROL DATA

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60395401

LABORATORY CONTROL SAMPLE: 3103860

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	5	4.9	97	90-110	

LABORATORY CONTROL SAMPLE: 3105334

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.9	97	90-110	
Fluoride	mg/L	2.5	2.6	102	90-110	
Sulfate	mg/L	5	4.9	98	90-110	

LABORATORY CONTROL SAMPLE: 3106193

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	5.0	101	90-110	
Fluoride	mg/L	2.5	2.6	105	90-110	
Sulfate	mg/L	5	5.3	107	90-110	

LABORATORY CONTROL SAMPLE: 3106336

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.7	93	90-110	
Fluoride	mg/L	2.5	2.5	101	90-110	
Sulfate	mg/L	5	4.7	93	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3103861 3103862

Parameter	Units	3103861		3103862		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		60395645004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Chloride	mg/L	60.4	100	100	146	147	85	87	80-120	1	15
Fluoride	mg/L	<0.12	2.5	2.5	2.2	2.1	89	84	80-120	5	15
Sulfate	mg/L	1100	1000	1000	2580	2780	148	168	80-120	7	15 M1

MATRIX SPIKE SAMPLE: 3103863

Parameter	Units	60395535002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L		192	50	244	104	80-120 E
Fluoride	mg/L		ND	25	25.0	100	80-120
Sulfate	mg/L		50.3	50	98.7	97	80-120

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QUALITY CONTROL DATA

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60395401

QC Batch: 778207

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: 60395401001

METHOD BLANK: 3104682

Matrix: Water

Associated Lab Samples: 60395401001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<1.0	1.0	03/29/22 16:50	
Fluoride	mg/L	<0.20	0.20	03/29/22 16:50	
Sulfate	mg/L	<1.0	1.0	03/29/22 16:50	

METHOD BLANK: 3107111

Matrix: Water

Associated Lab Samples: 60395401001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<1.0	1.0	03/30/22 08:56	
Fluoride	mg/L	<0.20	0.20	03/30/22 08:56	
Sulfate	mg/L	<1.0	1.0	03/30/22 08:56	

LABORATORY CONTROL SAMPLE: 3104683

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	5.1	101	90-110	
Fluoride	mg/L	2.5	2.6	104	90-110	
Sulfate	mg/L	5	5.3	106	90-110	

LABORATORY CONTROL SAMPLE: 3107112

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.7	93	90-110	
Fluoride	mg/L	2.5	2.5	101	90-110	
Sulfate	mg/L	5	4.7	93	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3104684

3104685

Parameter	Units	60395573003		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	Result	MSD Result	% Rec	% Rec					
Chloride	mg/L	37.8	25	25	65.6	78.8	111	164	80-120	18	15	M1, R1	
Fluoride	mg/L	ND	2.5	2.5	2.6	2.7	102	107	80-120	5	15		
Sulfate	mg/L	269	100	100	369	368	100	100	80-120	0	15		

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QUALITY CONTROL DATA

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60395401

SAMPLE DUPLICATE: 3104686

Parameter	Units	60395573003 Result	Dup Result	RPD	Max RPD	Qualifiers
Chloride	mg/L	37.8	42.5	12	15	
Fluoride	mg/L	ND	<0.20		15	
Sulfate	mg/L	269	257	5	15	

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QUALITY CONTROL DATA

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60395401

QC Batch:	669926	Analysis Method:	SM 5310C
QC Batch Method:	SM 5310C	Analysis Description:	5310C Total Organic Carbon
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 60395401001, 60395401002, 60395401003, 60395401004, 60395401005, 60395401006, 60395401007

METHOD BLANK: 3084786 Matrix: Water

Associated Lab Samples: 60395401001, 60395401002, 60395401003, 60395401004, 60395401005, 60395401006, 60395401007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	<1.0	1.0	04/06/22 23:01	

LABORATORY CONTROL SAMPLE: 3084787

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: 3084788 3084789

Parameter	Units	50312629004 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	ND	10	10	10.7	10.7	99	98	80-120	0	20	

MATRIX SPIKE SAMPLE: 3084790

Parameter	Units	60395401001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	2.8	10	12.8	99	80-120	

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QUALITY CONTROL DATA

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60395401

QC Batch:	780202	Analysis Method:	SM 5310C
QC Batch Method:	SM 5310C	Analysis Description:	5310C Dissolved Organic Carbon
		Laboratory:	Pace Analytical Services - Kansas City

Associated Lab Samples: 60395401001, 60395401002, 60395401003, 60395401004, 60395401005, 60395401006, 60395401007

METHOD BLANK: 3111972 Matrix: Water
Associated Lab Samples: 60395401001, 60395401002, 60395401003, 60395401004, 60395401005, 60395401006, 60395401007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dissolved Organic Carbon	mg/L	<1.0	1.0	04/07/22 18:28	

LABORATORY CONTROL SAMPLE: 3111973

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: 3111974

Parameter	Units	60395401001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	3.4	5	9.1	113	80-120	

SAMPLE DUPLICATE: 3111975

Parameter	Units	60395401003 Result	Dup Result	RPD	Max RPD	Qualifiers
Dissolved Organic Carbon	mg/L	2.1	2.1	0	25	

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QUALIFIERS

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60395401

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

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.

R1 RPD value was outside control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60395401

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60395401001	MW-37-031522	EPA 200.7	777650	EPA 200.7	777847
60395401002	MW-38-031522	EPA 200.7	777650	EPA 200.7	777847
60395401003	MW-39-031522	EPA 200.7	777650	EPA 200.7	777847
60395401004	MW-40-031522	EPA 200.7	777650	EPA 200.7	777847
60395401005	MW-K-031522	EPA 200.7	777650	EPA 200.7	777847
60395401006	MW-L-031522	EPA 200.7	777650	EPA 200.7	777847
60395401007	DUP-AP-031522	EPA 200.7	777650	EPA 200.7	777847
60395401001	MW-37-031522	EPA 200.7	778024	EPA 200.7	778127
60395401002	MW-38-031522	EPA 200.7	778024	EPA 200.7	778127
60395401003	MW-39-031522	EPA 200.7	778024	EPA 200.7	778127
60395401004	MW-40-031522	EPA 200.7	778024	EPA 200.7	778127
60395401005	MW-K-031522	EPA 200.7	778024	EPA 200.7	778127
60395401006	MW-L-031522	EPA 200.7	778024	EPA 200.7	778127
60395401007	DUP-AP-031522	EPA 200.7	778024	EPA 200.7	778127
60395401001	MW-37-031522	EPA 3010	778343	EPA 6010	778541
60395401002	MW-38-031522	EPA 3010	778343	EPA 6010	778541
60395401003	MW-39-031522	EPA 3010	778343	EPA 6010	778541
60395401004	MW-40-031522	EPA 3010	778343	EPA 6010	778541
60395401005	MW-K-031522	EPA 3010	778343	EPA 6010	778541
60395401006	MW-L-031522	EPA 3010	778343	EPA 6010	778541
60395401007	DUP-AP-031522	EPA 3010	778343	EPA 6010	778541
60395401001	MW-37-031522	EPA 3010	778391	EPA 6010	778546
60395401002	MW-38-031522	EPA 3010	778391	EPA 6010	778546
60395401003	MW-39-031522	EPA 3010	778391	EPA 6010	778546
60395401004	MW-40-031522	EPA 3010	778391	EPA 6010	778546
60395401005	MW-K-031522	EPA 3010	778391	EPA 6010	778546
60395401006	MW-L-031522	EPA 3010	778391	EPA 6010	778546
60395401007	DUP-AP-031522	EPA 3010	778391	EPA 6010	778546
60395401001	MW-37-031522	SM 2320B	777562		
60395401002	MW-38-031522	SM 2320B	777562		
60395401003	MW-39-031522	SM 2320B	777562		
60395401004	MW-40-031522	SM 2320B	777562		
60395401005	MW-K-031522	SM 2320B	777562		
60395401006	MW-L-031522	SM 2320B	777562		
60395401007	DUP-AP-031522	SM 2320B	777562		
60395401001	MW-37-031522	SM 2540C	777868		
60395401002	MW-38-031522	SM 2540C	776869		
60395401003	MW-39-031522	SM 2540C	776869		
60395401004	MW-40-031522	SM 2540C	776869		
60395401005	MW-K-031522	SM 2540C	776869		
60395401006	MW-L-031522	SM 2540C	776869		
60395401007	DUP-AP-031522	SM 2540C	776869		
60395401001	MW-37-031522	SM 3500-Fe B#4	777952		
60395401002	MW-38-031522	SM 3500-Fe B#4	777952		
60395401003	MW-39-031522	SM 3500-Fe B#4	777952		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60395401

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60395401004	MW-40-031522	SM 3500-Fe B#4	777952		
60395401005	MW-K-031522	SM 3500-Fe B#4	777952		
60395401006	MW-L-031522	SM 3500-Fe B#4	777952		
60395401007	DUP-AP-031522	SM 3500-Fe B#4	777952		
60395401001	MW-37-031522	SM 4500-H+B	777234		
60395401002	MW-38-031522	SM 4500-H+B	777234		
60395401003	MW-39-031522	SM 4500-H+B	777234		
60395401004	MW-40-031522	SM 4500-H+B	777234		
60395401005	MW-K-031522	SM 4500-H+B	777234		
60395401006	MW-L-031522	SM 4500-H+B	777234		
60395401001	MW-37-031522	SM 4500-S-2 D	776933		
60395401002	MW-38-031522	SM 4500-S-2 D	776933		
60395401003	MW-39-031522	SM 4500-S-2 D	776933		
60395401004	MW-40-031522	SM 4500-S-2 D	776933		
60395401005	MW-K-031522	SM 4500-S-2 D	776933		
60395401006	MW-L-031522	SM 4500-S-2 D	776933		
60395401007	DUP-AP-031522	SM 4500-S-2 D	776933		
60395401001	MW-37-031522	EPA 300.0	778207		
60395401002	MW-38-031522	EPA 300.0	777765		
60395401003	MW-39-031522	EPA 300.0	777765		
60395401004	MW-40-031522	EPA 300.0	777765		
60395401005	MW-K-031522	EPA 300.0	777765		
60395401006	MW-L-031522	EPA 300.0	777765		
60395401007	DUP-AP-031522	EPA 300.0	777946		
60395401001	MW-37-031522	SM 5310C	669926		
60395401002	MW-38-031522	SM 5310C	669926		
60395401003	MW-39-031522	SM 5310C	669926		
60395401004	MW-40-031522	SM 5310C	669926		
60395401005	MW-K-031522	SM 5310C	669926		
60395401006	MW-L-031522	SM 5310C	669926		
60395401007	DUP-AP-031522	SM 5310C	669926		
60395401001	MW-37-031522	SM 5310C	780202		
60395401002	MW-38-031522	SM 5310C	780202		
60395401003	MW-39-031522	SM 5310C	780202		
60395401004	MW-40-031522	SM 5310C	780202		
60395401005	MW-K-031522	SM 5310C	780202		
60395401006	MW-L-031522	SM 5310C	780202		
60395401007	DUP-AP-031522	SM 5310C	780202		

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WO#: 60395401



DC#_Title: ENV-FRM-LENE-0009_Sample



60395401

Revision: 2

Effective Date: 01/12/2022

Issued By: Lenexa

Client Name: Energy 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 zpk

Thermometer Used: T-299 Type of Ice: Wet Blue None

Cooler Temperature (°C): As-read 2.2, 2.0 Corr. Factor 0.2 Corrected 1.9, 1.7

Date and initials of person examining contents: 3/18/22 Q

Temperature should be above freezing to 6°C

Chain of Custody present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Chain of Custody relinquished:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Samples arrived within holding time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Short Hold Time analyses (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<u>Feet</u>
Rush Turn Around Time requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Correct containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Unpreserved 5035A / TX1005/1006 soils frozen in 48hrs?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Filtered volume received for dissolved tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Sample labels match COC: Date / time / ID / analyses	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Samples contain multiple phases? Matrix: <u>WT</u>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> 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#:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> 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)	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Potassium iodide test strip turns blue/purple? (Preserve)	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Trip Blank present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Headspace in VOA vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Samples from USDA Regulated Area: State:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Additional labels attached to 5035A / TX1005 vials in the field?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> 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: _____



CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information:

Company: **EVERGY KANSAS CENTRAL, INC.**
 Address: **Lawrence Energy Center (LEC)**
 818 Kansas Ave, Topeka, KS 66612
 Email To: **melissa.michels@evergy.com**
 Phone: **785-575-8113** Fax:
 Requested Due Date/TAT: **7 day**

Section B
 Required Project Information:
 Report To: **Melissa Michels, Danielle Oberbroeckling**
 Copy To: **Jared Morrison, Jake Humphrey, Laura Hines**
 Purchase Order No.: **10LEC-0000018165**
 Project Name: **LEC Inactive Ash Ponds CCR**
 Project Number:

Section C
 Invoice Information:
 Attention: **Accounts Payable**
 Company Name: **EVERGY KANSAS CENTRAL, INC**
 Address: **SAME AS A**
 Pace Quote Reference:
 Pace Project Manager: **Alice Spiller, 913-563-1403**
 Pace Profile #: **9655, 3**

REGULATORY AGENCY
 NPDES GROUND WATER DRINKING WATER
 UST RCRA OTHER

Site Location
 STATE: **KS**

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE DRINKING WATER DW WASTE WATER WW PRODUCT P SOILSOLID SL OIL OL WIPE WP AIR AR OTHER OT TISSUE TS	COLLECTED		SAMPLE TYPE (G=GRAB C=COMP)	MATRIX CODE (see valid codes to left)	PRESERVATIVES	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
			COMPOSITE START	COMPOSITE END/GRAB						
1	MW-37-031522			03/15/22	17:22	G	WT			
2	MW-38-031522			03/15/22	18:15	G	WT			
3	MW-39-031522			03/15/22	14:40	G	WT			
4	MW-40-031522			03/15/22	14:30	G	WT			
5	MW-K-031522			03/15/22	15:55	G	WT			
6	MW-L-031522			03/15/22	15:45	G	WT			
7	DUP-AP-031522			03/15/22	15:55	G	WT			
8										
9										
10										
11										
12										

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
200.7 Total Metals: B, Ca, Ba, Pb (4 metals)	Jason R. Franks / SCS	3/17/22	16:00	E Brault / Pace	3/17/22	16:00	Received on <input type="checkbox"/> Sealed Cooler <input type="checkbox"/> Custody <input type="checkbox"/> (Y/N) <input type="checkbox"/> Temp in °C <input type="checkbox"/>
200.8 Total Metals: As, Co, Mo (3 metals)							
6010 Total Metals: Li (1 metal)							
(2) TL mic preserved for small Radium analysis (Pace P1W-see profile notes)							

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER: **Jason R. Franks**
 SIGNATURE of SAMPLER: *Jason R. Franks*
 DATE Signed (MM/DD/YY): **3/17/22**

*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



Sample Receiving Non-Conformance Form (NCF)

Date: 3/18/22	Evaluated by: Eric Bracklett
Client: Energy	

Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

1. If Chain-of-Custody (COC) is not received: contact client and if necessary, fill out a COC and indicate that it was filled out by lab personnel. Note issues on this NCF.

2. If COC is incomplete, check applicable issues below and add details where appropriate:

<input type="checkbox"/>	Collection date/time missing or incorrect	Analyses or analytes: missing or clarification needed	Samples listed on COC do not match samples received (missing, additional, etc.)
<input checked="" type="checkbox"/>	Sample IDs on COC do not match sample labels	Required trip blanks were not received	Required signatures are missing

Comments/Details/Other Issues not listed above:

received containers for mw-lc twice. 1 - collection time reflects mw-l - 031522

3. Sample integrity issues: check applicable issues below and add details where appropriate:

<input type="checkbox"/>	Samples: Past holding time	Samples: Condition needs to be brought to lab personnel's attention (details below)	Preservation: Improper
<input type="checkbox"/>	Samples: Not field filtered	Containers: Broken or compromised	Temperature: not within acceptance criteria (typically 0-6C)
<input type="checkbox"/>	Samples: Insufficient volume received	Containers: Incorrect	Temperature: Samples arrived frozen
<input type="checkbox"/>	Samples: Cooler damaged or compromised	Custody Seals: Missing or compromised on samples, trip blanks or coolers	Vials received with improper headspace
<input type="checkbox"/>	Samples: contain chlorine or sulfides	Packing Material: Insufficient/Improper	Other:

Comments/Details:

~~no preser. for CB for sulfide~~ 3/18/22

4. If Samples not preserved properly and Sample Receiving adjusts pH, add details below:

Sample ID:	Date/Time:	Amount/type pres added:
Preserved by:	Initial and Final pH:	Lot # of pres added:
Sample ID:	Date/Time:	Amount/type pres added:
Preserved by:	Initial and Final pH:	Lot # of pres added:
Sample ID:	Date/Time:	Amount/type pres added:
Preserved by:	Initial and Final pH:	Lot # of pres added:

5. Client Contact: If client is contacted for any issue listed above, fill in details below:

Client:	Contacted per:
PM Initials:	Date/Time:

Client Comments/Instructions:

April 22, 2022

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

RE: Project: LEC INACTIVE ASH PONDS CCR
Pace Project No.: 60395398

Dear Jake Humphrey:

Enclosed are the analytical results for sample(s) received by the laboratory on March 17, 2022. 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 4/22/22 report re-analysis of 6010 Lithium with lower reporting limits.

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

Sincerely,



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

Enclosures

cc: Laura Hines, Eversource, Inc.
Tabitha Hylton, Eversource Kansas Central, Inc. Lawrence
Energy Center
Samantha Kaney, Haley & Aldrich
Melissa Michels, Eversource, Inc.
Jared Morrison, Eversource, Inc.
Danielle Oberbroeckling, Haley & Aldrich
Danielle Oberbroeckling, Haley Aldrich
Zach Phillips, Eversource, Inc.
Melanie Sataneck, Haley & Aldrich, Inc.



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60395398

Pace Analytical Services Kansas

9608 Loiret Boulevard, Lenexa, KS 66219

Missouri Inorganic Drinking Water Certification #: 10090

Arkansas Drinking Water

Arkansas Certification #: 20-020-0

Arkansas Drinking Water

Illinois Certification #: 2000302021-3

Iowa Certification #: 118

Kansas/NELAP Certification #: E-10116

Louisiana Certification #: 03055

Nevada Certification #: KS000212020-2

Oklahoma Certification #: 9205/9935

Florida: Cert E871149 SEKS WET

Texas Certification #: T104704407-21-15

Utah Certification #: KS000212019-9

Illinois Certification #: 004592

Kansas Field Laboratory Accreditation: # E-92587

Missouri SEKS Micro Certification: 10070

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60395398

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60395398001	MW-37-031522	Water	03/15/22 17:22	03/17/22 16:00
60395398002	MW-38-031522	Water	03/15/22 18:15	03/17/22 16:00
60395398003	MW-39-031522	Water	03/15/22 14:40	03/17/22 16:00
60395398004	MW-40-031522	Water	03/15/22 14:30	03/17/22 16:00
60395398005	MW-K-031522	Water	03/15/22 15:55	03/17/22 16:00
60395398006	MW-L-031522	Water	03/15/22 15:45	03/17/22 16:00
60395398007	DUP-AP-031522	Water	03/15/22 15:55	03/17/22 16:00

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60395398

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60395398001	MW-37-031522	EPA 200.7	JLH	4	PASI-K
		EPA 6010	JLH	1	PASI-K
		EPA 200.8	JGP	3	PASI-K
		SM 2540C	TNB	1	PASI-K
		SM 4500-H+B	SK	1	PASI-K
		EPA 300.0	CRN2	3	PASI-K
60395398002	MW-38-031522	EPA 200.7	JLH	4	PASI-K
		EPA 6010	JLH	1	PASI-K
		EPA 200.8	JGP	3	PASI-K
		SM 2540C	TNB	1	PASI-K
		SM 4500-H+B	SK	1	PASI-K
		EPA 300.0	CRN2	3	PASI-K
60395398003	MW-39-031522	EPA 200.7	JLH	4	PASI-K
		EPA 6010	JLH	1	PASI-K
		EPA 200.8	JGP	3	PASI-K
		SM 2540C	TNB	1	PASI-K
		SM 4500-H+B	SK	1	PASI-K
		EPA 300.0	CRN2	3	PASI-K
60395398004	MW-40-031522	EPA 200.7	JLH	4	PASI-K
		EPA 6010	JLH	1	PASI-K
		EPA 200.8	JGP	3	PASI-K
		SM 2540C	TNB	1	PASI-K
		SM 4500-H+B	SK	1	PASI-K
		EPA 300.0	CRN2	3	PASI-K
60395398005	MW-K-031522	EPA 200.7	JLH	4	PASI-K
		EPA 6010	JLH	1	PASI-K
		EPA 200.8	JGP	3	PASI-K
		SM 2540C	TNB	1	PASI-K
		SM 4500-H+B	SK	1	PASI-K
		EPA 300.0	CRN2	3	PASI-K
60395398006	MW-L-031522	EPA 200.7	JLH	4	PASI-K
		EPA 6010	JLH	1	PASI-K
		EPA 200.8	JGP	3	PASI-K
		SM 2540C	TNB	1	PASI-K
		SM 4500-H+B	SK	1	PASI-K
		EPA 300.0	CRN2	3	PASI-K
60395398007	DUP-AP-031522	EPA 200.7	JLH	4	PASI-K

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SAMPLE ANALYTE COUNT

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60395398

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 6010	JLH	1	PASI-K
		EPA 200.8	JGP	3	PASI-K
		SM 2540C	TNB	1	PASI-K
		SM 4500-H+B	SK	1	PASI-K
		EPA 300.0	CRN2	3	PASI-K

PASI-K = Pace Analytical Services - Kansas City

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60395398

Method: EPA 200.7

Description: 200.7 Metals, Total

Client: Evergy Kansas Central, Inc.

Date: April 22, 2022

General Information:

7 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: 777650

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60395298001,60395398005

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

- MS (Lab ID: 3102799)
 - Calcium
- MSD (Lab ID: 3102800)
 - Calcium

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60395398

Method: EPA 6010

Description: 6010 MET ICP

Client: Evergy Kansas Central, Inc.

Date: April 22, 2022

General Information:

7 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:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60395398

Method: EPA 200.8

Description: 200.8 MET ICPMS

Client: Evergy Kansas Central, Inc.

Date: April 22, 2022

General Information:

7 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:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60395398

Method: SM 2540C

Description: 2540C Total Dissolved Solids

Client: Evergy Kansas Central, Inc.

Date: April 22, 2022

General Information:

7 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:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60395398

Method: SM 4500-H+B

Description: 4500H+ pH, Electrometric

Client: Evergy Kansas Central, Inc.

Date: April 22, 2022

General Information:

7 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.

- DUP-AP-031522 (Lab ID: 60395398007)
- MW-37-031522 (Lab ID: 60395398001)
- MW-38-031522 (Lab ID: 60395398002)
- MW-39-031522 (Lab ID: 60395398003)
- MW-40-031522 (Lab ID: 60395398004)
- MW-K-031522 (Lab ID: 60395398005)
- MW-L-031522 (Lab ID: 60395398006)

Method Blank:

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

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits 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:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60395398

Method: EPA 300.0

Description: 300.0 IC Anions 28 Days

Client: Evergy Kansas Central, Inc.

Date: April 22, 2022

General Information:

7 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: 777261

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60395394005,60395394014

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

- MS (Lab ID: 3101343)
 - Sulfate
- MS (Lab ID: 3101345)
 - Chloride
- MSD (Lab ID: 3101344)
 - Sulfate

QC Batch: 777597

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60395357004

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

- MS (Lab ID: 3102616)
 - Chloride
 - Fluoride
 - Sulfate
- MSD (Lab ID: 3102614)
 - Chloride
 - Fluoride
 - Sulfate

QC Batch: 777765

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60395436004,60395902001

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

- MS (Lab ID: 3103185)
 - Fluoride
 - Sulfate

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PROJECT NARRATIVE

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60395398

Method: EPA 300.0

Description: 300.0 IC Anions 28 Days

Client: Evergy Kansas Central, Inc.

Date: April 22, 2022

QC Batch: 777765

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60395436004,60395902001

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

- MSD (Lab ID: 3103186)
 - Chloride

R1: RPD value was outside control limits.

- MSD (Lab ID: 3103186)
 - Chloride
 - Fluoride
 - Sulfate

Duplicate Sample:

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

Additional Comments:

Analyte Comments:

QC Batch: 777261

E: Analyte concentration exceeded the calibration range. The reported result is estimated.

- MS (Lab ID: 3101343)
 - Chloride
- MSD (Lab ID: 3101344)
 - Chloride

QC Batch: 777597

E: Analyte concentration exceeded the calibration range. The reported result is estimated.

- MS (Lab ID: 3102616)
 - Sulfate
- MSD (Lab ID: 3102614)
 - 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: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60395398

Sample: MW-37-031522	Lab ID: 60395398001	Collected: 03/15/22 17:22	Received: 03/17/22 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	0.076	mg/L	0.0050	1	03/25/22 10:07	03/27/22 13:52	7440-39-3	
Boron, Total Recoverable	1.8	mg/L	0.10	1	03/25/22 10:07	03/27/22 13:52	7440-42-8	
Calcium, Total Recoverable	223	mg/L	0.60	3	03/25/22 10:07	03/28/22 22:40	7440-70-2	
Lead, Total Recoverable	<0.010	mg/L	0.010	1	03/25/22 10:07	03/27/22 13:52	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	0.030	3	03/29/22 12:21	03/31/22 15:58	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	0.0057	mg/L	0.0010	1	03/28/22 15:20	03/30/22 12:23	7440-38-2	
Cobalt, Total Recoverable	<0.0010	mg/L	0.0010	1	03/28/22 15:20	03/30/22 12:23	7440-48-4	
Molybdenum, Total Recoverable	0.094	mg/L	0.0010	1	03/28/22 15:20	03/30/22 12:23	7439-98-7	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Kansas City								
Total Dissolved Solids	993	mg/L	13.3	1		03/22/22 15:58		
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		03/24/22 10:20		H6
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0								
Pace Analytical Services - Kansas City								
Chloride	36.4	mg/L	10.0	10		03/25/22 14:45	16887-00-6	
Fluoride	<0.20	mg/L	0.20	1		03/25/22 04:34	16984-48-8	
Sulfate	323	mg/L	20.0	20		03/25/22 04:48	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60395398

Sample: MW-38-031522	Lab ID: 60395398002	Collected: 03/15/22 18:15	Received: 03/17/22 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	0.037	mg/L	0.0050	1	03/25/22 10:07	03/27/22 13:54	7440-39-3	
Boron, Total Recoverable	4.7	mg/L	0.10	1	03/25/22 10:07	03/27/22 13:54	7440-42-8	
Calcium, Total Recoverable	222	mg/L	0.60	3	03/25/22 10:07	03/28/22 22:42	7440-70-2	
Lead, Total Recoverable	<0.010	mg/L	0.010	1	03/25/22 10:07	03/27/22 13:54	7439-92-1	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Total Recoverable	0.056	mg/L	0.030	3	03/29/22 12:21	03/31/22 16:00	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	0.019	mg/L	0.0010	1	03/28/22 15:20	03/30/22 12:28	7440-38-2	
Cobalt, Total Recoverable	<0.0010	mg/L	0.0010	1	03/28/22 15:20	03/30/22 12:28	7440-48-4	
Molybdenum, Total Recoverable	0.078	mg/L	0.0010	1	03/28/22 15:20	03/30/22 12:28	7439-98-7	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Kansas City								
Total Dissolved Solids	1720	mg/L	20.0	1		03/22/22 15:58		
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		03/24/22 10:23		H6
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0								
Pace Analytical Services - Kansas City								
Chloride	110	mg/L	20.0	20		03/25/22 22:49	16887-00-6	
Fluoride	4.0	mg/L	0.20	1		03/25/22 22:35	16984-48-8	
Sulfate	651	mg/L	100	100		03/26/22 16:08	14808-79-8	

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ANALYTICAL RESULTS

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60395398

Sample: MW-39-031522	Lab ID: 60395398003	Collected: 03/15/22 14:40	Received: 03/17/22 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	0.032	mg/L	0.0050	1	03/25/22 10:07	03/27/22 13:56	7440-39-3	
Boron, Total Recoverable	4.5	mg/L	0.10	1	03/25/22 10:07	03/27/22 13:56	7440-42-8	
Calcium, Total Recoverable	607	mg/L	2.0	10	03/25/22 10:07	03/28/22 22:45	7440-70-2	
Lead, Total Recoverable	<0.010	mg/L	0.010	1	03/25/22 10:07	03/27/22 13:56	7439-92-1	
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	03/29/22 12:21	04/22/22 10:14	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	0.011	mg/L	0.0010	1	03/28/22 15:20	03/30/22 12:33	7440-38-2	
Cobalt, Total Recoverable	0.0011	mg/L	0.0010	1	03/28/22 15:20	03/30/22 12:33	7440-48-4	
Molybdenum, Total Recoverable	0.22	mg/L	0.0010	1	03/28/22 15:20	03/30/22 12:33	7439-98-7	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Kansas City								
Total Dissolved Solids	2930	mg/L	66.7	1		03/22/22 15:58		
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		03/24/22 10:10		H6
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0								
Pace Analytical Services - Kansas City								
Chloride	308	mg/L	20.0	20		03/25/22 23:45	16887-00-6	
Fluoride	1.1	mg/L	0.20	1		03/25/22 23:03	16984-48-8	
Sulfate	1480	mg/L	200	200		03/26/22 16:22	14808-79-8	

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ANALYTICAL RESULTS

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60395398

Sample: MW-40-031522	Lab ID: 60395398004	Collected: 03/15/22 14:30	Received: 03/17/22 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	0.034	mg/L	0.0050	1	03/25/22 10:07	03/27/22 13:59	7440-39-3	
Boron, Total Recoverable	4.2	mg/L	0.10	1	03/25/22 10:07	03/27/22 13:59	7440-42-8	
Calcium, Total Recoverable	443	mg/L	1.0	5	03/25/22 10:07	03/28/22 22:47	7440-70-2	
Lead, Total Recoverable	<0.010	mg/L	0.010	1	03/25/22 10:07	03/27/22 13:59	7439-92-1	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Total Recoverable	0.042	mg/L	0.010	1	03/29/22 12:21	04/22/22 10:17	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	0.014	mg/L	0.0010	1	03/28/22 15:20	03/30/22 12:38	7440-38-2	
Cobalt, Total Recoverable	<0.0010	mg/L	0.0010	1	03/28/22 15:20	03/30/22 12:38	7440-48-4	
Molybdenum, Total Recoverable	0.071	mg/L	0.0010	1	03/28/22 15:20	03/30/22 12:38	7439-98-7	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Kansas City								
Total Dissolved Solids	2450	mg/L	66.7	1		03/22/22 15:58		
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		03/24/22 10:06		H6
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0								
Pace Analytical Services - Kansas City								
Chloride	215	mg/L	20.0	20		03/26/22 00:12	16887-00-6	
Fluoride	0.79	mg/L	0.20	1		03/25/22 23:58	16984-48-8	
Sulfate	1280	mg/L	100	100		03/26/22 16:37	14808-79-8	

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ANALYTICAL RESULTS

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60395398

Sample: MW-K-031522	Lab ID: 60395398005	Collected: 03/15/22 15:55	Received: 03/17/22 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	0.039	mg/L	0.0050	1	03/25/22 10:07	03/28/22 22:49	7440-39-3	
Boron, Total Recoverable	2.8	mg/L	0.10	1	03/25/22 10:07	03/28/22 22:49	7440-42-8	
Calcium, Total Recoverable	216	mg/L	0.60	3	03/25/22 10:07	03/28/22 22:51	7440-70-2	
Lead, Total Recoverable	<0.010	mg/L	0.010	1	03/25/22 10:07	03/27/22 14:01	7439-92-1	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Total Recoverable	0.049	mg/L	0.030	3	03/29/22 12:21	03/31/22 16:07	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	0.10	mg/L	0.0010	1	03/28/22 15:20	03/30/22 12:49	7440-38-2	
Cobalt, Total Recoverable	<0.0010	mg/L	0.0010	1	03/28/22 15:20	03/30/22 12:49	7440-48-4	
Molybdenum, Total Recoverable	0.040	mg/L	0.0010	1	03/28/22 15:20	03/30/22 12:49	7439-98-7	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Kansas City								
Total Dissolved Solids	1760	mg/L	20.0	1		03/22/22 15:58		
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		03/24/22 10:16		H6
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0								
Pace Analytical Services - Kansas City								
Chloride	159	mg/L	20.0	20		03/26/22 00:40	16887-00-6	
Fluoride	3.8	mg/L	0.20	1		03/26/22 00:26	16984-48-8	
Sulfate	727	mg/L	50.0	50		03/26/22 16:51	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60395398

Sample: MW-L-031522	Lab ID: 60395398006	Collected: 03/15/22 15:45	Received: 03/17/22 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	0.033	mg/L	0.0050	1	03/25/22 10:07	03/27/22 14:05	7440-39-3	
Boron, Total Recoverable	2.3	mg/L	0.10	1	03/25/22 10:07	03/27/22 14:05	7440-42-8	
Calcium, Total Recoverable	538	mg/L	2.0	10	03/25/22 10:07	03/28/22 22:58	7440-70-2	
Lead, Total Recoverable	<0.010	mg/L	0.010	1	03/25/22 10:07	03/27/22 14:05	7439-92-1	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Total Recoverable	0.052	mg/L	0.010	1	03/29/22 12:21	04/22/22 10:20	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	0.025	mg/L	0.0010	1	03/28/22 15:20	03/30/22 12:54	7440-38-2	
Cobalt, Total Recoverable	<0.0010	mg/L	0.0010	1	03/28/22 15:20	03/30/22 12:54	7440-48-4	
Molybdenum, Total Recoverable	0.044	mg/L	0.0010	1	03/28/22 15:20	03/30/22 12:54	7439-98-7	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Kansas City								
Total Dissolved Solids	5190	mg/L	100	1		03/22/22 15:58		
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		03/24/22 10:13		H6
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0								
Pace Analytical Services - Kansas City								
Chloride	639	mg/L	100	100		03/26/22 11:26	16887-00-6	
Fluoride	<0.20	mg/L	0.20	1		03/25/22 21:44	16984-48-8	
Sulfate	2590	mg/L	200	200		03/26/22 11:40	14808-79-8	

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ANALYTICAL RESULTS

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60395398

Sample: DUP-AP-031522	Lab ID: 60395398007	Collected: 03/15/22 15:55	Received: 03/17/22 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	0.039	mg/L	0.0050	1	03/25/22 10:07	03/27/22 14:07	7440-39-3	
Boron, Total Recoverable	3.0	mg/L	0.10	1	03/25/22 10:07	03/27/22 14:07	7440-42-8	
Calcium, Total Recoverable	217	mg/L	0.60	3	03/25/22 10:07	03/28/22 23:05	7440-70-2	
Lead, Total Recoverable	<0.010	mg/L	0.010	1	03/25/22 10:07	03/27/22 14:07	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	0.030	3	03/29/22 12:21	03/31/22 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	0.097	mg/L	0.0010	1	03/28/22 15:20	03/30/22 13:04	7440-38-2	
Cobalt, Total Recoverable	<0.0010	mg/L	0.0010	1	03/28/22 15:20	03/30/22 13:04	7440-48-4	
Molybdenum, Total Recoverable	0.038	mg/L	0.0010	1	03/28/22 15:20	03/30/22 13:04	7439-98-7	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Kansas City								
Total Dissolved Solids	2610	mg/L	20.0	1		03/22/22 15:58		
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		03/24/22 10:18		H6
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0								
Pace Analytical Services - Kansas City								
Chloride	182	mg/L	20.0	20		03/25/22 22:54	16887-00-6	
Fluoride	3.8	mg/L	0.20	1		03/25/22 22:40	16984-48-8	
Sulfate	712	mg/L	100	100		03/26/22 11:54	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60395398

QC Batch:	777650	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: 60395398001, 60395398002, 60395398003, 60395398004, 60395398005, 60395398006, 60395398007

METHOD BLANK: 3102797 Matrix: Water
Associated Lab Samples: 60395398001, 60395398002, 60395398003, 60395398004, 60395398005, 60395398006, 60395398007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Barium	mg/L	<0.0050	0.0050	03/27/22 13:28	
Boron	mg/L	<0.10	0.10	03/27/22 13:28	
Calcium	mg/L	<0.20	0.20	03/27/22 13:28	
Lead	mg/L	<0.010	0.010	03/27/22 13:28	

LABORATORY CONTROL SAMPLE: 3102798

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	mg/L	1	1.0	101	85-115	
Boron	mg/L	1	0.98	98	85-115	
Calcium	mg/L	10	10.3	103	85-115	
Lead	mg/L	1	1.0	102	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3102799 3102800

Parameter	Units	60395298001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
Barium	mg/L	185 ug/L	1	1	1.2	1.2	98	97	70-130	1	20
Boron	mg/L	625 ug/L	1	1	1.7	1.6	104	103	70-130	1	20
Calcium	mg/L	199000 ug/L	10	10	217	217	181	175	70-130	0	20 M1
Lead	mg/L	<10.0 ug/L	1	1	0.97	0.96	97	96	70-130	0	20

MATRIX SPIKE SAMPLE: 3102801

Parameter	Units	60395398005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Barium	mg/L	0.039	1	1.0	98	70-130	
Boron	mg/L	2.8	1	3.7	95	70-130	
Calcium	mg/L	216	10	224	79	70-130	
Lead	mg/L	<0.010	1	0.95	95	70-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60395398

QC Batch:	778136	Analysis Method:	EPA 200.8
QC Batch Method:	EPA 200.8	Analysis Description:	200.8 MET
		Laboratory:	Pace Analytical Services - Kansas City

Associated Lab Samples: 60395398001, 60395398002, 60395398003, 60395398004, 60395398005, 60395398006, 60395398007

METHOD BLANK: 3104475 Matrix: Water
Associated Lab Samples: 60395398001, 60395398002, 60395398003, 60395398004, 60395398005, 60395398006, 60395398007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/L	<0.0010	0.0010	03/30/22 11:31	
Cobalt	mg/L	<0.0010	0.0010	03/30/22 11:31	
Molybdenum	mg/L	<0.0010	0.0010	03/30/22 11:31	

LABORATORY CONTROL SAMPLE: 3104476

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	0.04	0.041	103	85-115	
Cobalt	mg/L	0.04	0.041	102	85-115	
Molybdenum	mg/L	0.04	0.042	106	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3104477 3104478

Parameter	Units	60395298002		3104477		3104478		% Rec	% Rec	% Rec Limits	Max RPD	Qual
		MS Result	MSD Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result					
Arsenic	mg/L	1.8 ug/L	0.04	0.04	0.043	0.043	102	103	70-130	0	20	
Cobalt	mg/L	<1.0 ug/L	0.04	0.04	0.042	0.041	103	103	70-130	0	20	
Molybdenum	mg/L	33.7 ug/L	0.04	0.04	0.078	0.078	112	110	70-130	1	20	

MATRIX SPIKE SAMPLE: 3104479

Parameter	Units	60395398006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	0.025	0.04	0.063	97	70-130	
Cobalt	mg/L	<0.0010	0.04	0.040	99	70-130	
Molybdenum	mg/L	0.044	0.04	0.088	108	70-130	

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QUALITY CONTROL DATA

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60395398

QC Batch:	778343	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET
		Laboratory:	Pace Analytical Services - Kansas City

Associated Lab Samples: 60395398001, 60395398002, 60395398003, 60395398004, 60395398005, 60395398006, 60395398007

METHOD BLANK: 3105142 Matrix: Water
Associated Lab Samples: 60395398001, 60395398002, 60395398003, 60395398004, 60395398005, 60395398006, 60395398007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lithium	mg/L	<0.010	0.010	03/31/22 12:37	

LABORATORY CONTROL SAMPLE: 3105143

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lithium	mg/L	1	0.86	86	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3105144 3105145

Parameter	Units	60395394021		3105144		3105145		% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MS Spike Conc.	MSD Result	MSD Spike Conc.	MS Result	MSD Result					MS % Rec
Lithium	mg/L	<0.020	1	1	1	0.91	0.92	89	90	75-125	1	20

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QUALITY CONTROL DATA

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60395398

QC Batch: 776869

Analysis Method: SM 2540C

QC Batch Method: SM 2540C

Analysis Description: 2540C Total Dissolved Solids

Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60395398001, 60395398002, 60395398003, 60395398004, 60395398005, 60395398006, 60395398007

METHOD BLANK: 3100015

Matrix: Water

Associated Lab Samples: 60395398001, 60395398002, 60395398003, 60395398004, 60395398005, 60395398006, 60395398007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<5.0	5.0	03/22/22 15:58	

LABORATORY CONTROL SAMPLE: 3100016

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	1000	962	96	80-120	

SAMPLE DUPLICATE: 3100017

Parameter	Units	60395432001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1040	1040	0	10	

SAMPLE DUPLICATE: 3100018

Parameter	Units	60395566004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1050	1030	2	10	

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QUALITY CONTROL DATA

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60395398

QC Batch: 777234

Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B

Analysis Description: 4500H+B pH

Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60395398001, 60395398002, 60395398003, 60395398004, 60395398005, 60395398006, 60395398007

SAMPLE DUPLICATE: 3101236

Parameter	Units	60395291006 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.5	7.3	3	5	H6

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QUALITY CONTROL DATA

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60395398

QC Batch: 777261

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: 60395398001

METHOD BLANK: 3101341

Matrix: Water

Associated Lab Samples: 60395398001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<1.0	1.0	03/24/22 15:38	
Fluoride	mg/L	<0.20	0.20	03/24/22 15:38	
Sulfate	mg/L	<1.0	1.0	03/24/22 15:38	

METHOD BLANK: 3104266

Matrix: Water

Associated Lab Samples: 60395398001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<1.0	1.0	03/25/22 08:45	
Fluoride	mg/L	<0.20	0.20	03/25/22 08:45	
Sulfate	mg/L	<1.0	1.0	03/25/22 08:45	

LABORATORY CONTROL SAMPLE: 3101342

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.5	91	90-110	
Fluoride	mg/L	2.5	2.7	107	90-110	
Sulfate	mg/L	5	4.9	99	90-110	

LABORATORY CONTROL SAMPLE: 3104267

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.6	91	90-110	
Fluoride	mg/L	2.5	2.6	105	90-110	
Sulfate	mg/L	5	4.9	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3101343

3101344

Parameter	Units	60395394005		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec				
Chloride	mg/L	18.4	5	5	23.1	23.2	93	95	80-120	0	15	E	
Fluoride	mg/L	<0.20	2.5	2.5	2.6	2.7	105	107	80-120	2	15		
Sulfate	mg/L	402	500	500	700	710	60	62	80-120	1	15	M1	

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QUALITY CONTROL DATA

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60395398

MATRIX SPIKE SAMPLE:		3101345		60395394014		Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Result	% Rec	Limits	Qualifiers	
Chloride	mg/L	1.7	5	5.4	75			80-120	M1	
Fluoride	mg/L	0.26	2.5	2.7	96			80-120		
Sulfate	mg/L	4.0	5	8.2	85			80-120		

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QUALITY CONTROL DATA

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60395398

QC Batch: 777597 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: 60395398002, 60395398003, 60395398004, 60395398005

METHOD BLANK: 3102612 Matrix: Water
 Associated Lab Samples: 60395398002, 60395398003, 60395398004, 60395398005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<1.0	1.0	03/25/22 15:26	
Fluoride	mg/L	<0.20	0.20	03/25/22 15:26	
Sulfate	mg/L	<1.0	1.0	03/25/22 15:26	

METHOD BLANK: 3104275 Matrix: Water
 Associated Lab Samples: 60395398002, 60395398003, 60395398004, 60395398005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<1.0	1.0	03/26/22 08:51	
Fluoride	mg/L	<0.20	0.20	03/26/22 08:51	
Sulfate	mg/L	<1.0	1.0	03/26/22 08:51	

LABORATORY CONTROL SAMPLE: 3102613

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	2.6	103	90-110	
Sulfate	mg/L	5	5.1	103	90-110	

LABORATORY CONTROL SAMPLE: 3104276

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.8	96	90-110	
Fluoride	mg/L	2.5	2.5	102	90-110	
Sulfate	mg/L	5	4.9	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3102616 3102614

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		60395357004	Spike Conc.	Spike Conc.	Result						
Chloride	mg/L	29.4	50	100	96.5	134	134	105	80-120	33	15 M1
Fluoride	mg/L	ND	25	50	45.4	70.6	182	141	80-120	43	15 M1
Sulfate	mg/L	128	50	100	201	250	146	122	80-120	22	15 E,M1

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QUALITY CONTROL DATA

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60395398

SAMPLE DUPLICATE: 3102615

Parameter	Units	60395357004 Result	Dup Result	RPD	Max RPD	Qualifiers
Chloride	mg/L	29.4	28.7	3	15	
Fluoride	mg/L	ND	<2.0		15	
Sulfate	mg/L	128	125	2	15	

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QUALITY CONTROL DATA

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60395398

QC Batch: 777765	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: 60395398006, 60395398007

METHOD BLANK: 3103183 Matrix: Water

Associated Lab Samples: 60395398006, 60395398007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<1.0	1.0	03/25/22 16:47	
Fluoride	mg/L	<0.20	0.20	03/25/22 16:47	
Sulfate	mg/L	<1.0	1.0	03/25/22 16:47	

METHOD BLANK: 3104273 Matrix: Water

Associated Lab Samples: 60395398006, 60395398007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<1.0	1.0	03/26/22 08:51	
Fluoride	mg/L	<0.20	0.20	03/26/22 08:51	
Sulfate	mg/L	<1.0	1.0	03/26/22 08:51	

LABORATORY CONTROL SAMPLE: 3103184

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.9	97	90-110	
Fluoride	mg/L	2.5	2.6	103	90-110	
Sulfate	mg/L	5	4.9	99	90-110	

LABORATORY CONTROL SAMPLE: 3104274

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.8	96	90-110	
Fluoride	mg/L	2.5	2.5	102	90-110	
Sulfate	mg/L	5	4.9	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3103185 3103186

Parameter	Units	3103185		3103186		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Chloride	mg/L	308	250	559	694	100	77	80-120	22	15	M1,R1
Fluoride	mg/L	ND	125	186	256	149	103	80-120	32	15	M1,R1
Sulfate	mg/L	181	250	486	624	122	89	80-120	25	15	M1,R1

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QUALITY CONTROL DATA

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60395398

MATRIX SPIKE SAMPLE:		3103187					
Parameter	Units	60395436004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	0.66J	5	5.6	98	80-120	
Fluoride	mg/L	1.7	2.5	4.6	114	80-120	
Sulfate	mg/L	616	500	1100	98	80-120	

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QUALIFIERS

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60395398

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

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.

R1 RPD value was outside control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60395398

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60395398001	MW-37-031522	EPA 200.7	777650	EPA 200.7	777847
60395398002	MW-38-031522	EPA 200.7	777650	EPA 200.7	777847
60395398003	MW-39-031522	EPA 200.7	777650	EPA 200.7	777847
60395398004	MW-40-031522	EPA 200.7	777650	EPA 200.7	777847
60395398005	MW-K-031522	EPA 200.7	777650	EPA 200.7	777847
60395398006	MW-L-031522	EPA 200.7	777650	EPA 200.7	777847
60395398007	DUP-AP-031522	EPA 200.7	777650	EPA 200.7	777847
60395398001	MW-37-031522	EPA 3010	778343	EPA 6010	778541
60395398002	MW-38-031522	EPA 3010	778343	EPA 6010	778541
60395398003	MW-39-031522	EPA 3010	778343	EPA 6010	778541
60395398004	MW-40-031522	EPA 3010	778343	EPA 6010	778541
60395398005	MW-K-031522	EPA 3010	778343	EPA 6010	778541
60395398006	MW-L-031522	EPA 3010	778343	EPA 6010	778541
60395398007	DUP-AP-031522	EPA 3010	778343	EPA 6010	778541
60395398001	MW-37-031522	EPA 200.8	778136	EPA 200.8	778279
60395398002	MW-38-031522	EPA 200.8	778136	EPA 200.8	778279
60395398003	MW-39-031522	EPA 200.8	778136	EPA 200.8	778279
60395398004	MW-40-031522	EPA 200.8	778136	EPA 200.8	778279
60395398005	MW-K-031522	EPA 200.8	778136	EPA 200.8	778279
60395398006	MW-L-031522	EPA 200.8	778136	EPA 200.8	778279
60395398007	DUP-AP-031522	EPA 200.8	778136	EPA 200.8	778279
60395398001	MW-37-031522	SM 2540C	776869		
60395398002	MW-38-031522	SM 2540C	776869		
60395398003	MW-39-031522	SM 2540C	776869		
60395398004	MW-40-031522	SM 2540C	776869		
60395398005	MW-K-031522	SM 2540C	776869		
60395398006	MW-L-031522	SM 2540C	776869		
60395398007	DUP-AP-031522	SM 2540C	776869		
60395398001	MW-37-031522	SM 4500-H+B	777234		
60395398002	MW-38-031522	SM 4500-H+B	777234		
60395398003	MW-39-031522	SM 4500-H+B	777234		
60395398004	MW-40-031522	SM 4500-H+B	777234		
60395398005	MW-K-031522	SM 4500-H+B	777234		
60395398006	MW-L-031522	SM 4500-H+B	777234		
60395398007	DUP-AP-031522	SM 4500-H+B	777234		
60395398001	MW-37-031522	EPA 300.0	777261		
60395398002	MW-38-031522	EPA 300.0	777597		
60395398003	MW-39-031522	EPA 300.0	777597		
60395398004	MW-40-031522	EPA 300.0	777597		
60395398005	MW-K-031522	EPA 300.0	777597		
60395398006	MW-L-031522	EPA 300.0	777765		
60395398007	DUP-AP-031522	EPA 300.0	777765		

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60395398



DC#_Title: ENV-FRM-LENE-0009_Sample C

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 rpc

Thermometer Used: T-299 Type of Ice: Wet Blue None

Cooler Temperature (°C): As-read 22,20 Corr. Factor -0.3 Corrected 19,17

Date and initials of person examining contents: 3/18/22

Temperature should be above freezing to 6°C

Chain of Custody present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Chain of Custody relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Samples arrived within holding time:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Short Hold Time analyses (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Rush Turn Around Time requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Correct containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace containers used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Unpreserved 5035A / TX1005/1006 soils frozen in 48hrs?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Filtered volume received for dissolved tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Sample labels match COC: Date / time / ID / analyses	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Samples contain multiple phases? Matrix: <u>WA</u>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> 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#:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> 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)	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Potassium iodide test strip turns blue/purple? (Preserve)	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Trip Blank present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Headspace in VOA vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Samples from USDA Regulated Area: State:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Additional labels attached to 5035A / TX1005 vials in the field?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> 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: _____



Sample Receiving Non-Conformance Form (NCF)

Date: 3/18/22	Evaluated by: Eric Brackuff
Client: Evergy	

Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

1. If Chain-of-Custody (COC) is not received: contact client and if necessary, fill out a COC and indicate that it was filled out by lab personnel. Note issues on this NCF.

2. If COC is incomplete, check applicable issues below and add details where appropriate:

<input type="checkbox"/>	Collection date/time missing or incorrect	<input type="checkbox"/>	Analyses or analytes: missing or clarification needed	<input type="checkbox"/>	Samples listed on COC do not match samples received (missing, additional, etc.)
<input checked="" type="checkbox"/>	Sample IDs on COC do not match sample labels	<input type="checkbox"/>	Required trip blanks were not received	<input type="checkbox"/>	Required signatures are missing

Comments/Details/Other Issues not listed above:
 received containers for mw-lc twice, 1 - collection time reflects mw-l-031522

3. Sample integrity issues: check applicable issues below and add details where appropriate:

<input type="checkbox"/>	Samples: Past holding time	<input type="checkbox"/>	Samples: Condition needs to be brought to lab personnel's attention (details below)	<input type="checkbox"/>	Preservation: Improper
<input type="checkbox"/>	Samples: Not field filtered	<input type="checkbox"/>	Containers: Broken or compromised	<input type="checkbox"/>	Temperature: not within acceptance criteria (typically 0-6C)
<input type="checkbox"/>	Samples: Insufficient volume received	<input type="checkbox"/>	Containers: Incorrect	<input type="checkbox"/>	Temperature: Samples arrived frozen
<input type="checkbox"/>	Samples: Cooler damaged or compromised	<input type="checkbox"/>	Custody Seals: Missing or compromised on samples, trip blanks or coolers	<input type="checkbox"/>	Vials received with improper headspace
<input type="checkbox"/>	Samples: contain chlorine or sulfides	<input type="checkbox"/>	Packing Material: Insufficient/Improper	<input type="checkbox"/>	Other:

Comments/Details:
~~no preser. for UB for sulfide~~ + 3/18/22

4. If Samples not preserved properly and Sample Receiving adjusts pH, add details below:

Sample ID:	Date/Time:	Amount/type pres added:
Preserved by:	Initial and Final pH:	Lot # of pres added:
Sample ID:	Date/Time:	Amount/type pres added:
Preserved by:	Initial and Final pH:	Lot # of pres added:
Sample ID:	Date/Time:	Amount/type pres added:
Preserved by:	Initial and Final pH:	Lot # of pres added:

5. Client Contact: If client is contacted for any issue listed above, fill in details below:

Client:	Contacted per:
PM Initials:	Date/Time:

Client Comments/Instructions: