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2025 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
ASH LANDFILL
SPRINGERVILLE GENERATING STATION
SPRINGERVILLE, ARIZONA

prepared by
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on behalf of
Tucson Electric Power Company
Tucson, Arizona

File No. 0208568-003
January 2026
Revision 1: February 2026

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Revision No.	Date	Notes
0	January 29, 2026	Original
1	February 26, 2026	Revised to include alternate source demonstration

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1. Introduction

This 2025 Annual Groundwater Monitoring and Corrective Action Report (Annual Report) addresses the Ash Landfill at the Springerville Generating Station (SGS), operated by Tucson Electric Power Company (TEP). This Annual Report was developed in accordance with the U.S. Environmental Protection Agency Coal Combustion Residual (CCR) Rule (Rule) effective 19 October 2015, including subsequent revisions, specifically Title 40 Code of Federal Regulations (40 CFR), subsection 257.90(e). This Annual Report documents the groundwater monitoring system for the Ash Landfill consistent with applicable sections of 257.90 through 257.98, and describes activities conducted in the prior calendar year (2025) and demonstrates 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.

Pursuant to § 257.105(h)(1), this Annual Report was completed and placed in the facility operating record by January 31, 2026. This Annual Report was subsequently revised on February 26, 2026 to incorporate the alternate source demonstration (ASD) that was completed and certified on February 25, 2026 addressing statistically significant increases (SSI) identified during the August 2025 semiannual detection monitoring sampling event.

This Annual Report must be posted to the TEP CCR website within 30 days of this Annual Report being placed on the facility operating record in accordance with § 257.107(h)(1). Since this Annual Report was revised prior to the date of required posting to the TEP CCR website (February 28, 2026), only the February 26, 2026 revision is posted to the TEP CCR website.

1.1 40 CFR § 257.90(e)(6) SUMMARY

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

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

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

At the start of the current annual reporting period (January 1, 2025), the Ash Landfill was operating under a detection monitoring program in compliance with 40 CFR § 257.94.

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

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

At the end of the current annual reporting period (December 31, 2025), the Ash Landfill was operating under a detection monitoring program in compliance with 40 CFR § 257.94.

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

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

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

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

The statistical analyses were completed within 90 days of receipt of laboratory data and were conducted pursuant to 40 CFR § 257.93 of the CCR Rule. Summaries of the statistical analyses for February 2025 and August 2025 are included in Tables 2 and 3, respectively.

Statistical analysis of the August 2025 samples was completed on January 26, 2026 following the completion of two verification sampling events in November and December 2025. Apparent increases over background concentrations identified in samples collected during the August 2025 semiannual detection monitoring sampling event are listed in Table 1. An apparent SSI was identified at downgradient monitoring well CCR-2D and statistically significant trends (SST)[1] were identified for upgradient monitoring wells CCR-1U and CCR-2U. In accordance with 40 CFR § 257.94(e)(2), an ASD was completed and certified on February 25, 2026, within 90 days following completion of the statistical analyses, and is included in Attachment 1.

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

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

An ASD was completed on February 25, 2026 addressing the apparent SSI identified during the August 2025 semiannual detection monitoring sampling event and is included in Attachment 1. Therefore, the Ash Landfill remained in the detection monitoring program during 2025.

[1] The CCR Rule does not require or recognize the determination of statistically significant increases (SSIs) in upgradient background wells. SSI determinations, under 257.94(e), apply only to compliance wells located at the downgradient waste boundary, as defined in 257.91(a)(2). Upgradient wells are used only to establish background groundwater quality and, by rule, cannot exhibit an SSI. However, to maintain consistent statistical methodology across all wells in the Ash Landfill monitoring network, data from all wells are being statistically analyzed using intra-well methods. The term statistically significant trends (SSTs) is applied to statistical outcomes in upgradient wells CCR-1U and CCR-2U. In this context, it refers only to observed data trends during detection monitoring and has no regulatory meaning when applied to upgradient wells.

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;

The Ash Landfill remained in detection monitoring during 2025. Therefore, no statistically significant levels above the groundwater protection standard for constituents listed in Appendix IV were identified for the Ash Landfill.

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;

No assessment of corrective measures was required to be initiated in 2025 for this unit. The Ash Landfill remained in detection monitoring during 2025.

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

An assessment of corrective measures was not required for the Ash Landfill during 2025; therefore, a public meeting was not held.

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.

No assessment of corrective measures was required to be initiated in 2025 for this unit. The Ash Landfill remained in detection monitoring during 2025.

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

The Ash Landfill remained in detection monitoring during 2025, and no remedy was required to be selected.

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

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

No remedial activities were required in 2025; therefore, no demonstration or certification is applicable for this unit.

2. 40 CFR § 257.90 Applicability

2.1 40 CFR § 257.90(a)

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

TEP has installed and certified a groundwater monitoring system at the SGS Ash Landfill. The Ash Landfill is subject to the groundwater monitoring and corrective action requirements described under 40 CFR §§ 257.90 through 257.98. This document addresses the requirement for the Owner/Operator to prepare an Annual Report in accordance with § 257.90(e).

Pursuant to § 257.105(h)(1), this Annual Report was completed and placed in the facility's operating record by January 31, 2026. This Annual Report was subsequently revised on February 26, 2026 to incorporate the ASD that was completed and certified on February 25, 2026.

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 SGS Ash Landfill as required by the Rule. Groundwater sampling and analysis was conducted in accordance with requirements described in § 257.93, and the status of the groundwater monitoring program described in § 257.94 is provided in this report. This Annual Report documents the applicable groundwater-related activities completed in the calendar year 2025.

Pursuant to § 257.105(h)(1), this Annual Report was completed and placed in the facility's operating record by January 31, 2026. This Annual Report was subsequently revised on February 26, 2026 to incorporate the ASD that was completed and certified on February 25, 2026.

2.2.1 Status of the Groundwater Monitoring Program

Statistical analyses of detection monitoring data collected in February and August 2025 were completed in May 2025 and January 2026, respectively. An apparent Appendix III SSI was identified at downgradient monitoring well CCR-2D and apparent SSTs were identified at upgradient monitoring wells CCR-1U and CCR-2U at the Ash Landfill during the August 2025 semiannual detection monitoring sampling event following the completion of two verification sampling events in November and December 2025, as summarized in Table 1. Summaries of the statistical analyses for February and August 2025 are included in Tables 2 and 3, respectively. An ASD was completed and certified on February 25, 2026, within 90 days following completion of the statistical analyses, for the SSI identified during the August 2025 semiannual detection monitoring sampling event and is included in Attachment 1. The Ash Landfill remained in a detection monitoring program during 2025.

2.2.2 Key Actions Completed

The 2024 Annual Groundwater Monitoring and Corrective Action Report was completed in January 2025. In accordance with 40 CFR § 257.94(e)(2), an ASD was completed and certified on February 18, 2025, within 90 days following completion of the statistical analyses. The ASD was included in the *2024 Annual Groundwater Monitoring and Corrective Action Report, Ash Landfill, Springerville Generating Stations, Springerville, Arizona* dated January 31, 2025, and revised on February 26, 2025.

Semiannual detection monitoring events were completed in February and August of 2025. Statistical analyses were completed within 90 days of receipt of laboratory data for the February and August 2025 semiannual detection monitoring sampling events and were conducted pursuant to 40 CFR § 257.93 of the CCR Rule.

An ASD was completed and certified on February 25, 2026, within 90 days following completion of the statistical analyses, for the SSI identified during the August 2025 semiannual detection monitoring sampling event and is included in Attachment 1.

Pursuant to § 257.105(h)(1), this Annual Report was completed and placed in the facility operating record by January 31, 2026. This Annual Report was subsequently revised on February 26, 2026 to incorporate the ASD that was completed and certified on February 25, 2026.

2.2.3 Verification Sampling

Potential issues were encountered during groundwater monitoring activities in 2025.

- Initial concentrations of boron, calcium, sulfate, and total dissolved solids (TDS) were detected above the statistical background concentrations at upgradient monitoring well CCR-1U during the August 2025 semiannual detection monitoring sampling event. A verification sample was collected in November 2025 to confirm the elevated concentrations and to determine if additional actions were needed. A laboratory error occurred and the verification sample could not be analyzed for boron, calcium, and sulfate, requiring collection of a second verification sample in December 2025. The analytical result for TDS was revised to reflect the verification sample from November 2025.

The second verification sample produced results consistent with previous background concentrations of boron and calcium detected at upgradient monitoring well CCR-1U, and the analytical results for boron and calcium were revised to reflect the verification sample results from December 2025.[2] Due to laboratory errors following the December 2025 verification sampling event, the apparent SSTs for sulfate and TDS could not be confirmed or ruled out at upgradient monitoring well CCR-1U.

- No verification sampling was conducted for monitoring well CCR-2U.
- TDS was detected at a concentration above the statistical background at downgradient monitoring well CCR-2D during the August 2025 semiannual detection monitoring sampling event. A verification sample was collected in November 2025 to confirm the elevated concentration. A laboratory error occurred and the verification sample could not be analyzed, requiring collection of a second verification sample in December 2025. The second verification sample confirmed the results from the August 2025 sampling event indicating an SSI for TDS at downgradient monitoring well CCR-2D. The analytical result for TDS was revised to reflect the verification sample result from the December 2025 verification sampling event.

2.2.4 Actions to Resolve Potential Issues

The resolution of potential issues encountered in 2025 included verification sampling, as described above. The analytical results were revised to reflect the verification sample results, as applicable. An ASD was completed and certified on February 25, 2026, within 90 days following completion of the statistical analyses, for the SSI identified during the August 2025 semiannual detection monitoring sampling event and is included in Attachment 1.

No other potential issues (e.g., damaged wells, issues with sample collection or lack of sampling, or problems with analytical analysis) were encountered at the Ash Landfill in 2025; therefore, no additional actions to resolve issues were required.

2.2.5 Project Key Activities for Upcoming Year

Key activities planned for 2026 include completion of the 2025 Annual Groundwater Monitoring and Corrective Action Report, semiannual detection monitoring, and subsequent statistical analysis. TEP intends to update and certify the groundwater monitoring network to include new downgradient monitoring well CCR-4D in 2026.

An ASD was completed and certified on February 25, 2026 addressing SSIs identified during the August 2025 semiannual detection monitoring sampling event.

[2] Unless a laboratory error or other error is identified that would invalidate a verification sampling result, the analytical results from verification sampling events are accepted, and the final result is revised accordingly.

2.3 40 CFR § 257.90(e) – INFORMATION

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

2.3.1 40 CFR § 257.90(e)(1)

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

As required by § 257.90(e)(1), a map showing the locations of the CCR unit and associated upgradient and downgradient monitoring wells for the Ash Landfill is included in this report as Figure 1.

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 added to or removed from the certified groundwater monitoring network in 2025.

TEP collected remaining baseline groundwater samples from an existing monitoring well (CCR-4D) located at the downgradient edge of waste, but not currently part of the certified CCR groundwater monitoring network. A total of eight groundwater samples have been collected from CCR-4D to support baseline statistical analyses. TEP intends to add CCR-4D into the certified groundwater monitoring network and monitoring program at the Ash Landfill in 2026.

In October 2025, TEP installed an additional monitoring well downgradient of the Ash Landfill at the waste boundary (CCR-5D-R; Figure 1). Two of eight baseline groundwater samples have been collected from the newly installed monitoring well. Upon completion of baseline sampling in 2026, TEP anticipates adding CCR-5D-R into the certified groundwater monitoring network and monitoring program in early 2027.

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 § 257.94(b), two independent semiannual detection monitoring samples from each background and downgradient monitoring well were collected in 2025. A summary, including the sample names, sample dates, field parameters, and monitoring data obtained for the groundwater monitoring program for the SGS Ash Landfill, is presented in Table 4 with corresponding laboratory analytical

reports provided in Attachment 2 of this report. Groundwater potentiometric elevation contour maps, along with calculated groundwater flow velocity and direction at each groundwater monitoring sampling event in 2025, are provided in Figures 2 and 3.

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

Data from the detection monitoring groundwater sampling events for the downgradient monitoring wells were compared to the calculated background concentrations (upper prediction limits) for the Appendix III constituents at the Ash Landfill. The background concentrations provided in Table 2 and Table 3 were updated in 2025 based on statistical evaluation of analytical results collected between 2016 and 2024. The updated values were used for evaluations of the February and August 2025 semiannual detection monitoring results.

Once the data is verified, a sample concentration greater than the prediction limit is considered to represent an SSI over background. The statistical analyses completed in 2025 for the February 2025 semiannual detection monitoring sampling event indicated no SSIs for Appendix III constituents. The statistical analyses completed for the August 2025 semiannual detection monitoring sampling event indicated an SSI for TDS at downgradient monitoring well CCR-2D (Table 1). An ASD was completed and certified on February 25, 2026, within 90 days following completion of the statistical analyses, for the SSI identified during the August 2025 semiannual detection monitoring sampling event and is included in Attachment 1. Therefore, there was no transition between monitoring programs during 2025.

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

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

This Annual Report documents activities conducted to comply with § 257.90 through § 257.94 of the Rule. It is understood that there are supplemental references in § 257.90 through § 257.98 to information that must be placed in the Annual Report. The following requirements include relevant and required information in the Annual Report for activities completed in calendar year 2025.

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

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

permitting authority in the annual groundwater monitoring and corrective action report required by § 257.90(e).

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

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

The owner or operator may demonstrate that a source other than the CCR unit caused the statistically significant increase over background levels for a constituent or that the statistically significant increase resulted from error in sampling, analysis, statistical evaluation, or natural variation in groundwater quality. The owner or operator must complete the written demonstration within 90 days of detecting a statistically significant increase over background levels to include obtaining a certification from a qualified professional engineer or approval from the Participating State Director or approval from EPA where EPA is the permitting authority verifying the accuracy of the information in the report. If a successful demonstration is completed within the 90-day period, the owner or operator of the CCR unit may continue with a detection monitoring program under this section. If a successful demonstration is not completed within the 90-day period, the owner or operator of the CCR unit must initiate an assessment monitoring program as required under § 257.95. The owner or operator must also include the demonstration in the annual groundwater monitoring and corrective action report required by § 257.90(e), in addition to the certification by a qualified professional engineer or approval from the Participating State Director or approval from EPA where EPA is the permitting authority.

An ASD was completed and certified on February 25, 2026, within 90 days following completion of the statistical analyses, for the SSI identified during the August 2025 semiannual detection monitoring sampling event and is included in Attachment 1. Therefore, the Ash Landfill remained in the detection monitoring program in 2025.

Pursuant to § 257.105(h)(1), this Annual Report was complete and placed in the facility's operating record by January 31, 2026. This Annual Report was subsequently revised on February 26, 2026 to incorporate the ASD that was completed and certified on February 25, 2026.

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).

The SGS Ash Landfill remained in detection monitoring during 2025 and 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).

The SGS Ash Landfill remained in detection monitoring in 2025. Consequently, TEP is not required to establish groundwater protection standards for this CCR unit, and this criterion is not applicable.

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.

Assessment monitoring statistical analyses were not required or completed in 2025. Therefore, this criterion is not applicable.

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.

Assessment monitoring statistical analyses were not required or completed in 2025. Therefore, this criterion is not applicable.

2.4 40 CFR § 257.90(f)

The owner or operator of the CCR unit must comply with the recordkeeping requirements specified in § 257.105(h), the notification requirements specified in § 257.106(h), and the internet requirements specified in § 257.107(h).

In order to comply with Rule recordkeeping requirements, the following actions must be completed:

- Pursuant to § 257.105(h)(1), this Annual Report must be placed in the facility operating record.
- Pursuant to § 257.106(h)(1), notification must be sent to the relevant State Director and/or Tribal authority within 30 days of this Annual Report being placed in the facility operating record [§ 257.106(d)].
- Pursuant to § 257.107(h)(1), this Annual Report must be posted to the TEP CCR website within 30 days of this Annual Report being placed in the facility operating record [§ 257.107(d)].

3. Summary

In 2025, TEP completed two semiannual groundwater monitoring events and two subsequent verification sampling events, in accordance with 40 CFR § 257.94(b). The analytical results for Appendix III constituents obtained during these sampling events were compared against updated background concentrations (upper prediction limits) to identify potential exceedances. The background groundwater quality concentrations were updated in 2025 based on statistical evaluation of analytical results collected between 2016 and 2024.

An apparent Appendix III SSI for TDS was identified at downgradient monitoring well CCR-2D during the August 2025 semiannual detection monitoring event. An ASD was completed and certified on February 25, 2026 to address the SSI identified from the August 2025 semiannual monitoring event. The ASD confirmed that the TDS concentration detected in the groundwater at the Ash Landfill monitoring well CCR-2D in August 2025 is not attributed to the Ash Landfill. Rather, it is attributed to natural variability within the aquifer. The Ash Landfill remained in detection monitoring during 2025. No corrective actions were required for the downgradient compliance wells during 2025.

TABLES

TABLE 1
SSI SUMMARY TABLE
TUCSON ELECTRIC POWER COMPANY
SPRINGERVILLE GENERATING STATION, ASH LANDFILL
SPRINGERVILLE, ARIZONA

Well ID	Location	Constituent	Sampling Event	August 2025 (mg/L)	Background Concentration (mg/L)[1]
Statisticaly Significant Increases[2]					
CCR-2D	Downgradient	Total Dissolved Solid	August 2025	3,900[3]	3,800*
Statisticaly Significant Trends[4]					
CCR-1U	Upgradient	Sulfate	August 2025	2,500	1,435*
		Total Dissolved Solid		5,000	3,811*
CCR-2U	Upgradient	Boron		1.3	1.2*

Notes:

[1] Background concentration was updated in 2025 using background data collected from 2016 - 2024.

[2] Statistically significant increases from downgradient monitoring well require additional actions and evaluations to address elevated concentrations (i.e., an alternate source demonstration).

[3] Result from verification sample collected in December 2025

[4] The CCR Rule does not require or recognize the determination of SSIs in upgradient background wells. SSI determinations, under 257.94(e), apply only to compliance wells located at the downgradient waste boundary, as defined in 257.91(a)(2). Upgradient wells are used only to establish background groundwater quality and, by rule, cannot exhibit an SSI. However, to maintain consistent statistical methodology across all wells in the Ash Landfill monitoring network, data from all wells were statistically analyzed using intra-well methods. The term statistically significant trends is applied to statistical outcomes in upgradient wells CCR 1U and CCR 2U.

** Value calculated via intrawell statistical analysis. Background concentration was updated in 2025 using background data collected from 2016 - 2024.*

mg/L = milligrams per liter

SSI = statistically significant increase

TABLE 2
FEBRUARY 2025 SUMMARY OF SEMIANNUAL DETECTION
GROUNDWATER MONITORING STATISTICAL EVALUATION
TUCSON ELECTRIC POWER COMPANY
SPRINGERVILLE GENERATING STATION, ASH LANDFILL
SPRINGERVILLE, ARIZONA

Well Number	February 2025 Sampling Result	Outliers Removed	Analysis (Interwell/Intrawell)	Background Distribution	Trend	Background Value (UPL)[1]	SSI (Yes/No)
CCR Appendix-III: Boron, Total (mg/L)							
CCR-1U (upgradient)	0.87	No	Intrawell	Parametric	Stable	0.97	No
CCR-2U (upgradient)	1.2	No	Intrawell	Non-Parametric	Stable	1.20	No
CCR-1D	0.85	No	Intrawell	Parametric	Stable	0.96	No
CCR-2D	0.92	No	Intrawell	Parametric	Stable	1.04	No
CCR-3D	0.87	No	Intrawell	Parametric	Stable	0.98	No
CCR Appendix-III: Calcium, Total (mg/L)							
CCR-1U (upgradient)	460	No	Intrawell	Parametric	Stable	513	No
CCR-2U (upgradient)	740	No	Intrawell	Parametric	Stable	773	No
CCR-1D	480	No	Intrawell	Parametric	Increasing	555	No
CCR-2D	670	No	Intrawell	Parametric	Stable	707	No
CCR-3D	450	No	Intrawell	Parametric	Stable	509	No
CCR Appendix-III: Chloride (mg/L)							
CCR-1U (upgradient)	500	Yes[2]	Intrawell	Parametric	Stable	591	No
CCR-2U (upgradient)	430	No	Intrawell	Parametric	Stable	512	No
CCR-1D	480	No	Intrawell	Parametric	Stable	568	No
CCR-2D	480	No	Intrawell	Parametric	Stable	600	No
CCR-3D	490	No	Intrawell	Parametric	Stable	618	No
CCR Appendix-III: Fluoride (mg/L)							
CCR-1U (upgradient)	3.4	No	Intrawell	Parametric	Increasing	4.2	No
CCR-2U (upgradient)	2.2	No	Intrawell	Parametric	Stable	3.0	No
CCR-1D	2.8	No	Intrawell	Non-Parametric	Increasing	3.1	No
CCR-2D	2.5	No	Intrawell	Non-Parametric	Increasing	3.4	No
CCR-3D	2.6	No	Intrawell	Non-Parametric	Increasing	3.9	No
CCR Appendix-III: pH (lab) (SU)							
CCR-1U (upgradient)	6.8	No	Intrawell	Parametric	Stable	7.4	No
CCR-2U (upgradient)	6.6	No	Intrawell	Parametric	Stable	7.0	No
CCR-1D	6.9	No	Intrawell	Parametric	Stable	7.3	No
CCR-2D	6.8	No	Intrawell	Parametric	Stable	7.2	No
CCR-3D	6.7	No	Intrawell	Parametric	Stable	7.2	No
CCR Appendix-III: Sulfate (mg/L)							
CCR-1U (upgradient)	1,300	No	Intrawell	Parametric	Increasing	1,435	No
CCR-2U (upgradient)	1,800	No	Intrawell	Parametric	Stable	2,112	No
CCR-1D	1,300	No	Intrawell	Parametric	Increasing	1,560	No
CCR-2D	1,600	No	Intrawell	Parametric	Stable	1,978	No
CCR-3D	1,200	No	Intrawell	Parametric	Stable	1,424	No
CCR Appendix-III: Total Dissolved Solids (TDS) (mg/L)							
CCR-1U (upgradient)	3,100	No	Intrawell	Parametric	Stable	3,811	No
CCR-2U (upgradient)	3,700	No	Intrawell	Non-Parametric	Stable	4,740	No
CCR-1D	3,000	No	Intrawell	Non-Parametric	Increasing	3,200	No
CCR-2D	3,700	No	Intrawell	Non-Parametric	Stable	3,800	No
CCR-3D	3,000	No	Intrawell	Parametric	Stable	3,480	No

Notes:

[1] UPL calculated using intrawell background data collected from 11/15/2016 through 08/13/2024.

[2] The chloride concentration from monitoring well CCR-1U from October 2018 was removed from UPL calculations since it was a magnitude lower than historic chloride concentrations at the monitoring well and is considered a statistical outlier.

CCR = coal combustion residual
mg/L = milligrams per liter
SSI = statistically significant increase
SU = standard unit
UPL = upper prediction limit

TABLE 3
AUGUST 2025 SUMMARY OF SEMIANNUAL DETECTION
GROUNDWATER MONITORING STATISTICAL EVALUATION
TUCSON ELECTRIC POWER COMPANY
SPRINGERVILLE GENERATING STATION, ASH LANDFILL
SPRINGERVILLE, ARIZONA

Well Number	August 2025 Sampling Result	Outliers Removed	Analysis (Interwell/Intrawell)	Background Distribution	Trend	Background Value (UPL)[1]	SSI (Yes/No)
CCR Appendix-III: Boron, Total (mg/L)							
CCR-1U (upgradient)	0.78[2]	No	Intrawell	Parametric	Stable	0.97	No
CCR-2U (upgradient)	1.3	No	Intrawell	Non-Parametric	Stable	1.20	No[3]
CCR-1D	0.82	No	Intrawell	Parametric	Stable	0.96	No
CCR-2D	0.93	No	Intrawell	Parametric	Stable	1.04	No
CCR-3D	0.94	No	Intrawell	Parametric	Stable	0.98	No
CCR Appendix-III: Calcium, Total (mg/L)							
CCR-1U (upgradient)	430[2]	No	Intrawell	Parametric	Stable	513	No
CCR-2U (upgradient)	770	No	Intrawell	Parametric	Stable	773	No
CCR-1D	460	No	Intrawell	Parametric	Increasing	555	No
CCR-2D	620	No	Intrawell	Parametric	Stable	707	No
CCR-3D	460	No	Intrawell	Parametric	Stable	509	No
CCR Appendix-III: Chloride (mg/L)							
CCR-1U (upgradient)	560	Yes[4]	Intrawell	Parametric	Stable	591	No
CCR-2U (upgradient)	420	No	Intrawell	Parametric	Stable	512	No
CCR-1D	480	No	Intrawell	Parametric	Stable	568	No
CCR-2D	500	No	Intrawell	Parametric	Stable	600	No
CCR-3D	500	No	Intrawell	Parametric	Stable	618	No
CCR Appendix-III: Fluoride (mg/L)							
CCR-1U (upgradient)	3.2	No	Intrawell	Parametric	Increasing	4.2	No
CCR-2U (upgradient)	2.5	No	Intrawell	Parametric	Stable	3.0	No
CCR-1D	2.9	No	Intrawell	Non-Parametric	Increasing	3.1	No
CCR-2D	2.7	No	Intrawell	Non-Parametric	Increasing	3.4	No
CCR-3D	3.2	No	Intrawell	Non-Parametric	Increasing	3.9	No
CCR Appendix-III: pH (lab) (SU)							
CCR-1U (upgradient)	7.0	No	Intrawell	Parametric	Stable	7.4	No
CCR-2U (upgradient)	6.6	No	Intrawell	Parametric	Stable	7.0	No
CCR-1D	6.8	No	Intrawell	Parametric	Stable	7.3	No
CCR-2D	6.8	No	Intrawell	Parametric	Stable	7.2	No
CCR-3D	6.7	No	Intrawell	Parametric	Stable	7.2	No
CCR Appendix-III: Sulfate (mg/L)							
CCR-1U (upgradient)	2,500	No	Intrawell	Parametric	Increasing	1,435	No[3]
CCR-2U (upgradient)	1,800	No	Intrawell	Parametric	Stable	2,112	No
CCR-1D	1,300	No	Intrawell	Parametric	Increasing	1,560	No
CCR-2D	1,700	No	Intrawell	Parametric	Stable	1,978	No
CCR-3D	1,300	No	Intrawell	Parametric	Stable	1,424	No
CCR Appendix-III: Total Dissolved Solids (TDS) (mg/L)							
CCR-1U (upgradient)	6,900[5]	No	Intrawell	Parametric	Stable	3,811	No[3]
CCR-2U (upgradient)	4,100	No	Intrawell	Non-Parametric	Stable	4,740	No
CCR-1D	3,200	No	Intrawell	Non-Parametric	Increasing	3,200	No
CCR-2D	3,900[2]	No	Intrawell	Non-Parametric	Stable	3,800	Yes
CCR-3D	3,300	No	Intrawell	Parametric	Stable	3,480	No

Notes:

[1] UPL calculated using intrawell background data collected from 11/15/2016 through 08/13/2024.

[2] Result from verification sample collected in December 2025. Additional narrative for the reporting of verification results is provided in Section 2.2.3 of the this report.

[3] Result identified as a statistically significant trend. The CCR Rule does not require or recognize the determination of SSIs in upgradient background wells. SSI determinations, under 257.94(e), apply only to compliance wells located at the downgradient waste boundary, as defined in 257.91(a)(2). Upgradient wells are used only to establish background groundwater quality and, by rule, cannot exhibit an SSI. However, to maintain consistent statistical methodology across all wells in the Ash Landfill monitoring network, data from all wells were statistically analyzed using intra-well methods. The term statistically significant trends is applied to statistical outcomes in upgradient wells CCR 1U and CCR 2U

[4] The chloride concentration from monitoring well CCR-1U from October 2018 was removed from UPL calculations since it was a magnitude lower than historic chloride concentrations at the monitoring well and is considered a statistical outlier.

[5] Result from verification sample collected in November 2025. Additional narrative for the reporting of verification results is provided in Section 2.2.3 of the this report.

CCR = coal combustion residual

mg/L = milligrams per liter

SSI = statistically significant increase

SU = standard unit

UPL = upper prediction limit

TABLE 4
SUMMARY OF ANALYTICAL RESULTS -2025 DETECTION MONITORING
TUCSON ELECTRIC POWER
SPRINGERVILLE GENERATING STATION - ASH LANDFILL
SPRINGERVILLE, ARIZONA

Location	Upgradient								Downgradient							
	CCR-1U	CCR-1U	CCR-1U	CCR-1U	CCR-2U	CCR-2U	CCR-2U	CCR-2U	CCR-1D	CCR-1D	CCR-2D	CCR-2D	CCR-2D	CCR-2D	CCR-3D	CCR-3D
Measure Point (TOC)	6954.29	6954.29	6954.29	6954.29	6782.62	6782.62	6782.62	6782.62	6708.98	6708.98	6837.64	6837.64	6837.64	6837.64	6867.04	6867.04
Sample Name	CCR-1U	CCR-1U	CCR-1U	CCR-1U	CCR-2U	CCR-2U-DUP	CCR-2U	CCR-2U-DUP	CCR-1D	CCR-1D	CCR-2D	CCR-2D	CCR-2D	CCR-2D	CCR-3D	CCR-3D
Sample Date	2/26/2025	8/19/2025	11/4/2025	12/16/2025	2/25/2025	2/25/2025	8/19/2025	8/19/2025	2/25/2025	8/19/2025	2/25/2025	8/19/2025	11/4/2025	12/15/2025	2/25/2025	8/19/2025
Final Lab Report Date	3/19/2025	9/16/2025	11/13/2025	1/7/2026	3/19/2025	3/19/2025	9/16/2025	9/16/2025	3/19/2025	9/16/2025	3/19/2025	9/16/2025	11/13/2025	1/7/2026	3/19/2025	9/16/2025
Final Lab Report Revision Date	4/8/2025	10/1/2025	N/A	1/16/2026	4/8/2025	4/8/2025	10/1/2025	10/1/2025	4/8/2025	10/1/2025	4/8/2025	10/1/2025	N/A	1/16/2026	4/8/2025	10/1/2025
Lab Data Reviewed and Accepted	4/22/2025	1/26/2026	1/26/2026	1/26/2026	4/22/2025	4/22/2025	1/26/2026	1/26/2026	4/22/2025	1/26/2026	4/22/2025	1/26/2026	1/26/2026	1/26/2026	4/22/2025	1/26/2026
Depth to Water (ft btoc)	804.15	805.89	803.55	807.56	813.20	-	814.31	-	832.21	833.57	896.18	897.85	897.77	898.93	828.27	830.10
Temperature, Field (Deg C)	13.5	17.8	17.0	15.1	16.6	-	17.5	-	16.2	17.4	14.3	16.6	17.5	15.4	15.4	19.3
Conductivity, Field (µS/cm)	3468	3453	4215	4442	3810	-	3797	-	3416	3434	3790	3772	4210	5065	3416	3441
Turbidity, Field (NTU)	0.7	0.8	3	4	1.5	-	1.2	-	0.6	0.7	0.5	0.6	3	3	2	487
pH, Field (su)	6.59	6.55	7.67	6.71	1.44	-	1.62	-	1.23	1.44	0.19	0.22	2.40	0.29	0.69	0.67
Dissolved Oxygen, Field (mg/L)	0.82	0.68	3.45	4.29	6.85	-	6.97	-	6.97	7.01	6.99	7.02	7.17	7.03	7.01	7.02
Oxidation Reduction Potential, Field (mV)	-2.4	-13.4	151.5	29.2	20.0	-	9.6	-	-4.7	-16.5	9.7	23.9	-76.0	93.3	17.8	-4.8
Boron, Total (mg/L)	**0.87**	**1.3**	**-**	**0.78**	**1.2**	**1.1**	**1.3**	**1.2**	**0.85**	**0.82**	**0.92**	**0.93**	**-**	**-**	**0.87**	**0.94**
Calcium, Total (mg/L)	**460**	**840**	**-**	**430**	**740**	**700**	**770**	**660**	**480**	**460**	**670**	**620**	**-**	**-**	**450**	**460**
Chloride (mg/L)	**500**	**560**	**-**	**-**	**430**	**430**	**420**	**420**	**480**	**480**	**480**	**500**	**-**	**-**	**490**	**500**
Fluoride (mg/L)	**3.4**	**3.2**	**-**	**-**	**2.2**	**2.2**	**2.5**	**2.5**	**2.8**	**2.9**	**2.5**	**2.7**	**-**	**-**	**2.6**	**3.2**
Sulfate (mg/L)	**1300**	**2500**	**-**	**-**	**1800**	**1800**	**1800**	**1800**	**1300**	**1300**	**1600**	**1700**	**-**	**-**	**1200**	**1300**
pH (lab) (su)	**6.8 J**	**7.0**	**-**	**-**	**6.6 J**	**6.6 J**	**6.6**	**7.9**	**6.9 J**	**6.8**	**6.8 J**	**6.8**	**-**	**-**	**6.7 J**	**6.7**
TDS (mg/L)	**3100**	**5000**	**6900**	**-**	**3700**	**3700**	**4100**	**4100**	**3000**	**3200**	**3700**	**4000**	**3900**	**3900**	**3000**	**3300**

Notes:

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

FIGURES

CCR-1D

CCR-2U

CCR-1U

CCR-4D

CCR-5DR

CCR-2D

CCR-3D

LEGEND

- PROPOSED CCR MONITERING WELL, WATER QUALITY ONLY
- CCR MONITERING WELL
- ASH LANDFILL BOUNDARY

NOTES

1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.
2. CCR = COAL CUMBUSTION RESIDUALS
3. AERIAL IMAGERY SOURCE: ESRI

N

0 800 1,600

SCALE IN FEET

HALEY ALDRICH

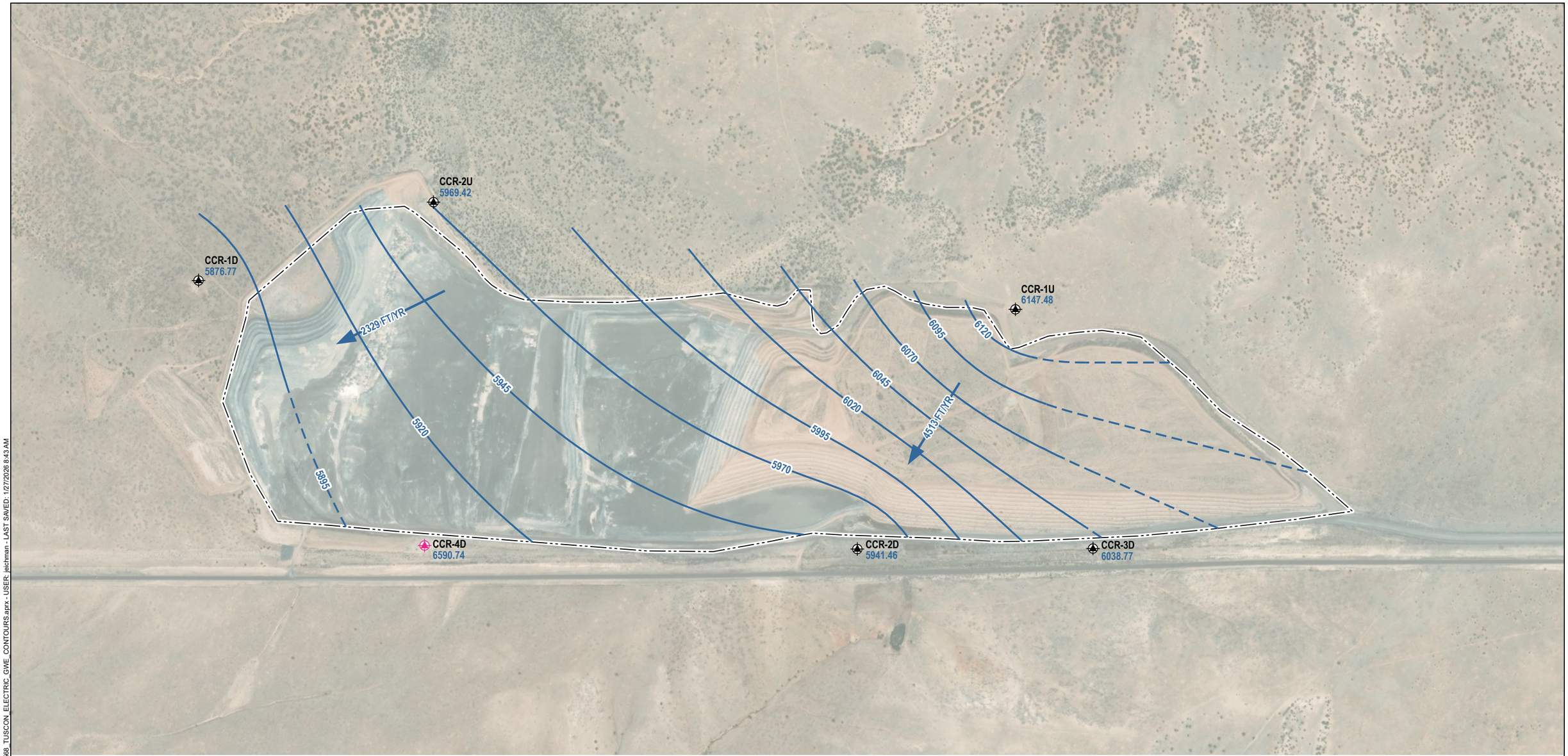
TUSCON ELECTRIC POWER COMPANY
SPRINGERVILLE GENERATING STATION
SPRINGERVILLE, ARIZONA

WELL LOCATION MAP

FEBRUARY 2026

FIGURE 1

GIS FILE PATH: \\haleyaldrich.com\share\CF\Projects\0208568\GIS\208568_TUSCON_ELECTRIC.aprx - USER: jeichman - LAST SAVED: 1/20/2026 5:20 PM



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LEGEND

- PROPOSED CCR MONITORING WELL, WATER QUALITY ONLY
- CCR MONITORING WELL
- GROUNDWATER ELEVATION CONTOUR, 25-FT INTERVAL, DASHED WHERE INFERRED
- GROUNDWATER FLOW DIRECTION WITH APPROXIMATE FLOW RATE (FEET/YEAR)
- ASH LANDFILL BOUNDARY

NOTES

1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.

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

3.MONITORING WELL CCR-4D WAS NOT INCLUDED IN THE DATA SET USED TO CREATE THE DISPLAYED GROUNDWATER ELEVATION CONTOURS DUE TO EVIDENCE OF A PERCHED AQUIFER AT THIS MONITERING WELL LOCATION THAT IS NOT REPERSENTATIVE OF THE UNDERLYING UPPERMOST AQUIFER.

4. THE GROUNDWATER FLOW RATE WAS APPROXIMATED USING THE HYDRAULIC GRADIENT CALCULATED FROM GROUNDWATER POTENTIOMETRIC ELEVATIONS MEASURED FEBRUARY 2025 AND THE CONDUCTIVITY VALUES AND EFFECTIVE POROSITY VALUES OBTAINED FROM PUBLISHED SOURCES.

5. AERIAL IMAGERY SOURCE: ESRI

N

0 800 1,600
SCALE IN FEET

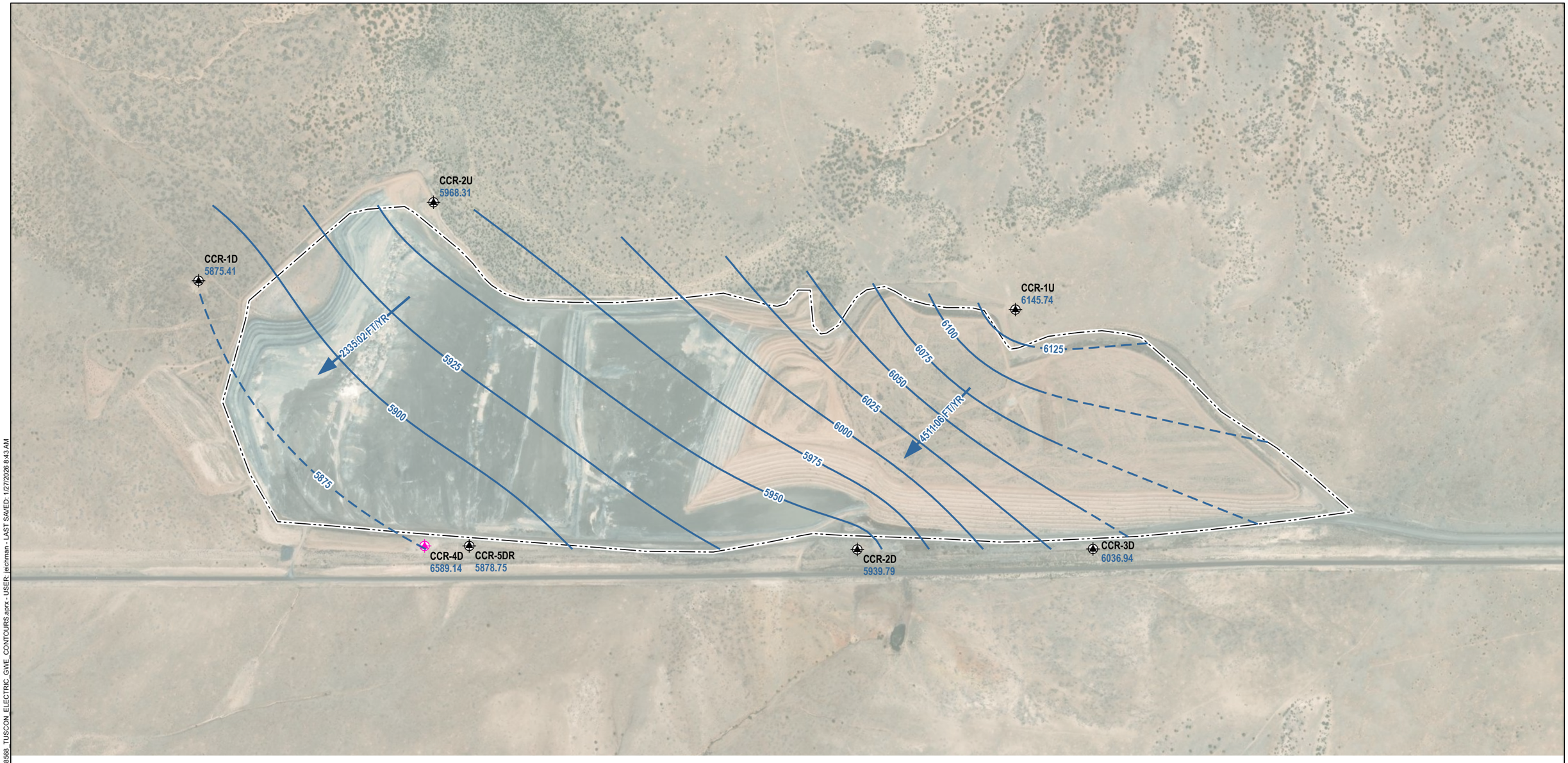
HALEY ALDRICH

TUSCON ELECTRIC POWER COMPANY
SPRINGERVILLE GENERATING STATION
SPRINGERVILLE, ARIZONA

GROUNDWATER ELEVATION CONTOUR MAP - FEBRUARY 2025

FEBRUARY 2026

FIGURE 2



LEGEND

- CCR MONITERING WELL
- PROPOSED CCR MONITERING WELL, WATER QUALITY ONLY
- GROUNDWATER ELEVATION CONTOUR, 25-FT INTERVAL, DASHED WHERE INFERRED
- GROUNDWATER FLOW DIRECTION WITH APPROXIMATE FLOW RATE (FEET/YEAR)
- ASH LANDFILL BOUNDARY

NOTES

1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.
2. GROUNDWATER ELEVATION INDICATED IN **BOLD BLUE TEXT** IN FEET ABOVE MEAN SEA LEVEL (AMSL)
3. MONITORING WELL CCR-4D WAS NOT INCLUDED IN THE DATA SET USED TO CREATE THE DISPLAYED GROUNDWATER ELEVATION CONTOURS DUE TO EVIDENCE OF A PERCHED AQUIFER AT THIS MONITERING WELL LOCATION THAT IS NOT REPERSENTATIVE OF THE UNDERLYING UPPERMOST AQUIFER.
4. THE GROUNDWATER FLOW RATE WAS APPROXIMATED USING THE HYDRAULIC GRADIENT CALCULATED FROM GROUNDWATER POTENTIOMETRIC ELEVATIONS MEASURED AUGUST 19 2025 AND THE CONDUCTIVITY VALUES AND EFFECTIVE POROSITY VALUES OBTAINED FROM PUBLISHED SOURCES.
5. AERIAL IMAGERY SOURCE: ESRI

N

0 800 1,600
SCALE IN FEET

HALEY ALDRICH

TUSCON ELECTRIC POWER COMPANY
SPRINGERVILLE GENERATING STATION
SPRINGERVILLE, ARIZONA

GROUNDWATER ELEVATION CONTOUR MAP - AUGUST 2025

FEBRUARY 2026

FIGURE 3

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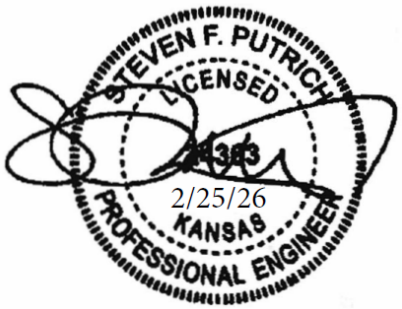
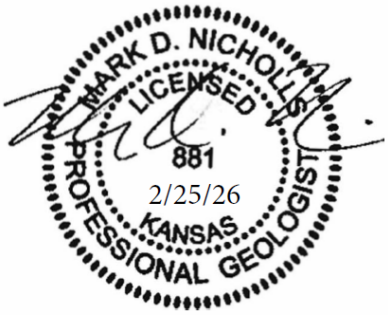
ATTACHMENT 1
Alternate Source Demonstration for the Ash Landfill, Springerville Generating Station, Springerville, Arizona

HALEY & ALDRICH, INC.
201 East Washington Street
Suite 1795
Phoenix, AZ 85004
602.760.2450

ALTERNATE SOURCE DEMONSTRATION
AUGUST 2025 SEMIANNUAL SAMPLING EVENT
FOR THE ASH LANDFILL
SPRINGERVILLE GENERATING STATION
SPRINGERVILLE, ARIZONA





by Haley & Aldrich, Inc.
Phoenix, Arizona

for Tucson Electric Power Company
Tucson, Arizona

File No. 0208568-003
February 2026

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1. Introduction

Haley & Aldrich, Inc. (Haley & Aldrich) was retained by the Tucson Electric Power Company (TEP) to perform an evaluation of groundwater quality at the Ash Landfill at the Springerville Generating Station (SGS) located in Springerville, Arizona. This alternate source demonstration (ASD) provides a summary of the evaluation completed to identify the source of an apparent elevated Appendix III constituent (total dissolved solids [TDS]) concentration detected in groundwater samples collected from one downgradient monitoring well at the Ash Landfill using intrawell statistical methods.

The information presented in this report describes the relationship between the Ash Landfill and groundwater in the uppermost aquifer, summarizes data describing natural variability of groundwater quality in the uppermost aquifer, and laboratory errors that resulted in an apparent statistically significant increase (SSI) at the Ash Landfill. The analysis described herein, demonstrates that:

- The apparent increase of TDS concentration observed downgradient of the Ash Landfill at monitoring well CCR-2D is within the range of observed TDS concentrations detected in groundwater upgradient of the Ash Landfill and is less than the maximum TDS concentration observed at upgradient monitoring wells.

1.1 BACKGROUND

Consistent with Title 40 Code of Federal Regulations (40 CFR) § 257.90 through § 257.94, TEP has installed and certified a groundwater monitoring network for the Ash Landfill at SGS and has established groundwater quality prediction limits based on at least eight rounds of baseline groundwater samples for the analysis of Appendix III constituents. Starting in October 2017, following baseline groundwater and semiannually thereafter, TEP has conducted statistical analyses of groundwater quality data to determine if any of the Appendix III constituents are present at downgradient monitoring wells at concentrations that are at statistically significant levels above background concentrations.

The statistical evaluation of the Appendix III constituents completed for the August 2025 semiannual detection monitoring sampling event identified an apparent SSI at downgradient monitoring well CCR-2D (TDS). The groundwater monitoring results for TDS in the Ash Landfill monitoring wells are included in Table I. The evaluations described in this report were conducted for the purpose of identifying the source of the apparent elevated TDS concentration observed in groundwater downgradient of the Ash Landfill.

Pursuant to 40 CFR § 257.94(e)(2), ***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 Rule provides 90 days from determination that an SSI over background exists to complete an ASD for Appendix III constituents. If a successful demonstration is completed and certified by a qualified professional engineer, the coal combustion residual (CCR) unit may continue in detection monitoring. If, however, an alternate source of the apparent Appendix III SSI is not identified, the owner or operator must initiate an assessment monitoring program within 90 days following the ASD period. This report documents the findings and conclusions of an ASD completed for the SGS Ash Landfill.

1.2 SITE SETTING

The Ash Landfill is located approximately 3 miles west-southwest of the power plant and has an approximate footprint of 440 acres The location of the SGS plant site is shown on Figure 1. The Ash Landfill and groundwater monitoring network are shown on Figure 2.

The landfill was not constructed with a composite liner system or leachate collection system. TEP reports that during construction, approximately 5 to 25 feet of existing grades were excavated to remove any unsuitable materials (e.g., loose rock, debris, topsoil, and organics) until the naturally occurring clay layer was encountered. Subgrades were then recompacted to establish a stable and firm clay subbase.

1.3 SITE DESCRIPTION

The Ash Landfill is primarily used for disposal of fly and bottom ash produced by the TEP generating units. Delineated portions of the Ash Landfill are used for the disposal of other non-ash wastes in lesser quantities, (e.g., sewage pond sludge, evaporation pond solids, miscellaneous pond clean-outs, etc.). The Aquifer Protection Permit (APP) No. P-101448 issued by the Arizona Department of Environmental Quality (ADEQ) lists the non-ash wastes that TEP is authorized to dispose in the Ash Landfill.

2. Site Geology and Hydrogeology

Hydrogeologic conditions beneath the Ash Landfill have been characterized based on data and information developed during installation of monitoring wells as part of the CCR groundwater monitoring network and published geologic information.

2.1 SITE GEOLOGY

The SGS plant site and Ash Landfill are located in the Colorado Plateau physiographic province. The Colorado Plateau is characterized by horizontally and vertically extensive sequences of sedimentary rocks that span more than 200 million years of deposition from the Paleozoic through Mesozoic eras. Many of the sedimentary formations of the Colorado Plateau constitute regional scale hydrogeologic units with widely variable groundwater production and groundwater quality characteristics.

The named lithologic units which underlie the Site include Quaternary Alluvial Deposits, Tertiary/Quaternary volcanic flows, Bidahochi, Chinle, Moenkopi, Kaibab Limestone, and Coconino Sandstone formations. The geologic formations beneath the Ash Landfill are composed of sedimentary rock, including sandstone, claystone, and limestone bedrock overlain by surficial alluvial sediments.

The Kaibab Limestone is a regionally extensive limestone formation that contains localized sandstone beds and is locally jointed and fractured. The formation is composed of dense hard cherty limestone that is impermeable unless fractured, and these fractures are much more prevalent in faulted areas (Akers, 1964). Sandstone beds near the base of the Kaibab Limestone are hydraulically connected to the underlying Coconino Sandstone, thus forming a single aquifer. The Kaibab Limestone ranges from approximately 0 to 310 feet thick in the region (Akers, 1964).

The Coconino Sandstone is composed entirely of sandstone with localized evaporite minerals. The formation is uniform in composition and quartz grains are bonded with firm to weak siliceous or calcareous cement. The Coconino Sandstone is estimated to be approximately 200 to 400 feet thick in the region (Akers, 1964).

The sedimentary bedrock formations generally dip toward the northeast throughout the region. However, displacement resulting from faulting and associated structural deformation has resulted in a localized dip to the southwest. The most prominent structural geologic features near the site include a regional northwest-trending anticline/fault (Cedar Mesa anticline/fault), the axis of which passes beneath the eastern part of the site, and a fault zone located west of the anticline (Coyote Wash fault). Geologic units on the west side of the anticline are downthrown, and vertical offset along the fault is more than 200 feet. The fault is classified as inactive because no displacement has occurred on the fault during Holocene time.

2.2 SITE HYDROGEOLOGY AND HYDROLOGY

The uppermost aquifer at the SGS Ash Landfill is the regional C-Aquifer which extends throughout much of northeast Arizona. The C-Aquifer is comprised of the Kaibab Limestone and Coconino Sandstone. Hydraulic conductivity, and well yield for SGS production wells that are screened within fractured Coconino Sandstone are relatively high, and wells completed in the C-Aquifer are used to provide all water supply needs for SGS facilities (Montgomery & Associates, 2024).

Depth to groundwater in the uppermost aquifer ranges between 820 and 895 feet below ground surface (bgs) downgradient of the Ash Landfill. Depth to groundwater in the uppermost aquifer upgradient of the Ash Landfill is approximately 805 feet bgs. Groundwater flow in the uppermost aquifer is toward the south-southwest beneath the Ash Landfill (Figure 2). The groundwater flow direction is based on water level observations made at groundwater monitoring wells located upgradient and downgradient of the Ash Landfill.

3. Alternative Source Demonstration

Haley & Aldrich conducted an evaluation of potential alternative sources that included review of sampling procedures, laboratory procedures, and statistical analyses to determine if potential errors may have been made that would result in the apparent increases of TDS in the groundwater in the vicinity of the Ash Landfill. Haley & Aldrich also evaluated potential point and non-point sources of contamination in the vicinity of the Ash Landfill and evaluated natural geologic conditions. Each of these evaluations and the resulting findings are described below.

3.1 REVIEW OF SAMPLING, ANALYSIS, AND STATISTICAL PROCEDURES

3.1.1 Field Sampling Procedures

Confluence Environmental, a consultant to TEP, conducted the field sampling activities in accordance with a Groundwater Sampling and Analysis Plan (SAP; Montgomery & Associates, 2016) that was prepared in accordance with 40 CFR § 257.93. The SAP prescribes the site-specific activities and methodologies for groundwater sampling and included procedures for field data collection, sample collection, sample preservation and shipment, interpretation, laboratory analytical methods, and reporting for groundwater sampling for the Ash Landfill.

Haley & Aldrich reviewed the field sampling and equipment calibration logs and the field indicator parameters and did not identify any deviations or errors in sampling that would result in a potential SSI at the downgradient boundary of the Ash Landfill.

3.1.2 Laboratory Quality Control

The groundwater samples collected downgradient of the Ash Landfill were analyzed using standard analytical methods. The data generated from these laboratory analyses are stored in a project database that incorporates hydrogeologic and groundwater quality data and was established to allow efficient management of chemical and physical data collected in the field and produced in the laboratory. The analytes, analytical methods, sample containers, field preservation, and maximum analytical holding times for monitoring are summarized in the SAP (Montgomery & Associates, 2016).

Haley & Aldrich conducted a quality assurance/quality control (QA/QC) review of each groundwater quality dataset generated for the Ash Landfill August 2025 groundwater sampling event. Laboratory and/or QA/QC errors were not identified as causes for the apparent TDS increase indicated at monitoring well CCR-2D.

3.1.3 Analytical Data

During the August 2025 sampling event, the TDS concentration at downgradient monitoring well CCR-2D was detected at 4,000 mg/L, which was above the upper prediction limit (UPL; Table II); therefore, a potential SSI at CCR-2D was recorded. Verification samples for TDS were collected in November and December 2025 at the monitoring well. The analytical data from these samples are summarized in Table I. The results from the August 2025 sampling event were confirmed by the verification samples,

and the analytical result was revised to reflect the verification sample result of 3,900 mg/L from December 2025,[1] which remained above the UPL.

A total of 26 groundwater samples, not including duplicates or verification samples, have been collected at each SGS monitoring well since November 2016 for TDS analysis. TDS concentrations at upgradient monitoring well CCR-2U are consistently higher than the TDS concentration observed at downgradient monitoring well CCR-2D (Table II). Well CCR-2U is located upgradient of the Ash Landfill and is unaffected by the Ash Landfill, and the TDS concentrations observed at monitoring well CCR-2U are the result of natural groundwater quality variability.

3.1.4 Statistical Evaluation

TEP collected groundwater samples from each of the upgradient (CCR-1U and CCR-2U) and downgradient (CCR-1D, CCR-2D, and CCR-3D) monitoring wells at the SGS Ash Landfill in August 2025 pursuant to 40 CFR §§ 257.93 and 257.94 of the CCR Rule. Statistical analysis of the analytical results from the August 2025 semiannual detection monitoring sampling event was completed using the intrawell prediction limits statistical method. Intrawell evaluations compare the most recent values from each compliance well against a background dataset composed of historical data from the subject well.

Haley & Aldrich have reviewed the statistical analysis of groundwater quality data for the upgradient and downgradient monitoring wells at the SGS Ash Landfill and have not identified any errors that would result in an apparent SSI for TDS at monitoring well CCR-2D, downgradient of the Ash Landfill. The statistical test method used met the performance standard established in the CCR Rule, and the statistical evaluation complies with the requirements of the Rule.

The TDS concentration observed at downgradient monitoring well CCR-2D from the August 2025 semiannual sampling event was below the UPL developed with upgradient (background) analytical data.

3.1.4.1 Outliers Tests

During review of the statistical analysis of groundwater quality data from the upgradient and downgradient monitoring wells at the SGS Ash Landfill for the August 2025 sampling event, Haley & Aldrich identified the apparent SSI as a statistical outlier (Appendix A). The statistical test method used met the performance standard established in the CCR Rule and statistical evaluation complies with the requirements of the Rule.

3.2 HISTORICAL LAND USE REVIEW

Haley & Aldrich assessed past usage of the site and adjoining properties through a review of the following records:

- Environmental Data Resources, Inc. (EDR) – Aerial Photographs, dated 1953, 1969, 1978, 1984, 1996, 2007, 2010, 2015, 2019, and 2023 (Appendix B); and
- EDR – topographic maps dated 1971, 1984, 2014, 2018, and 2021 (Appendix C).

[1] Unless a laboratory error or other error is identified that would invalidate a verification sampling result, the analytical results from verification sampling events are accepted, and the final result is revised accordingly.

Unless otherwise noted below, sources were reviewed dating back to 1940 or first developed use, whichever is earlier.

3.2.1 Historical Aerial Photographs

Haley & Aldrich reviewed aerial photographs depicting the development of the site and vicinity, as summarized in Table III. The historical aerial photograph search includes photographs from the United States Geological Survey (USGS), the United States Department of Agriculture (USDA), the National Agricultural Imagery Program, and the Digital Orthophoto Quadrangle and are included in Appendix B (EDR, 2026a).

The aerial photographs show that the site was undeveloped in 1953 and was unchanged through 1978. In the 1984 photograph, construction of the Ash Landfill has begun and roads and structures are evident. By 2015, the structures and roads are in near current configuration with only slight variations compared to present. By 2019, the structures and roads are in their current configuration.

3.2.2 Historical Topographic Maps

Haley & Aldrich reviewed historical topographic maps depicting the development of the site and vicinity, as summarized in Table IV. The historical topographic maps from the USGS are included in Appendix C (EDR, 2026b).

3.3 POTENTIAL POINT AND NON-POINT SOURCES

Haley & Aldrich conducted a review of potential point and non-point sources of contamination in the vicinity of the SGS Ash Landfill to determine if previous or adjacent site activities, land uses, or practices could be associated with elevated concentrations occurring downgradient of the Ash Landfill. Potential point sources could include naturally occurring or anthropogenic contributions associated with discharges or other activities occurring at a discrete location in the vicinity of the apparent SSI. Non-point sources could include diffuse discharging activities or practices (naturally occurring or anthropogenic) that may result in a low level but widespread increase in concentrations, which may be detected at the downgradient side of the SGS Ash Landfill.

3.3.1 Point Sources

Prior to construction of the SGS Ash Landfill, the landfill site and surrounding vicinity was undeveloped range land. Review of historical topographic maps and aerial photos shows no structures or other man-made features at the landfill site prior to construction of the SGS plant. No known industrial, agricultural, mining, or other activities were conducted at the Ash Landfill site that would potentially constitute a historical point source and result in an elevated concentration of TDS in groundwater. No current or historical point sources have been identified as a potential ASD for the apparent TDS SSI at the Ash Landfill.

3.3.2 Non-Point Sources

No agricultural, mining, industrial, or other activities have been documented in the vicinity of the Ash Landfill that might constitute a non-point source of TDS at the location of the apparent SSI. Records reviewed included historical aerial photographs and historical topographic maps showing past anthropogenic activities at the Site.

3.4 NATURAL VARIABILITY OF GROUNDWATER QUALITY

3.4.1 Groundwater Flow Direction

A review of groundwater elevations from the August 2025 semiannual sampling event confirms that CCR-1U and CCR-2U are located hydraulically upgradient of the Ash Landfill (Figure 2). Elevated concentrations of CCR constituents at the upgradient monitoring wells are the result of natural variability within the aquifer.

3.4.2 Regional Water Quality Data

The CCR Rule does not specifically include characterization of groundwater quality variability beyond the site boundaries, or in relation to regional groundwater quality trends and variability; however, the regional groundwater quality trends are important to consider for the SGS conceptual site model as they play a contributing role in understanding site-specific groundwater quality trends and disposition. Numerous studies summarize the variability in groundwater quality within the C-Aquifer in northern Arizona. Haley & Aldrich reviewed available data and information describing aquifer conditions and geologic conditions in the region.

Akers (1964) reported TDS concentrations ranging from 119 mg/L to 3,820 mg/L in central Apache County indicating that the groundwater quality variability of TDS at the Ash Landfill is naturally occurring at concentrations observed throughout the region where the uppermost aquifer occurs.

Haley & Aldrich conducted a search of the U.S. Environmental Protection Agency (USEPA) and USGS Water Quality Portal (WQP) database for publicly available data describing groundwater quality within the C-Aquifer, specifically the Kaibab and Coconino water bearing units of the aquifer. TDS concentrations in the Kaibab Formation in Apache County ranged from 370 to 5,180 mg/L at 40 wells located within 30 miles of SGS (Appendix D). Water quality data from SGS production wells completed in the C-Aquifer have variable TDS concentrations that are within the range of values observed in the regional C-Aquifer (Montgomery & Associates, 2024).

As discussed in Section 2, the Kaibab Formation is in hydraulic communication with the Coconino Sandstone forming a single aquifer (C-Aquifer) beneath the SGS site. The TDS concentrations reported in the WQP occur in the same aquifer where monitoring wells CCR-1U, CCR-2U,and CCR-2D are screened, and therefore, these wells are in hydraulic communication with the TDS concentrations observed in the C-Aquifer.

4. Findings and Conclusions

Haley & Aldrich conducted an evaluation of groundwater quality at the SGS Ash Landfill to identify the source of the apparent SSI indicated at downgradient monitoring well CCR-2D (for TDS). The evaluation included review of sampling procedures, laboratory procedures, and statistical analyses to determine if potential errors may have been made that would result in the apparent SSIs. Haley & Aldrich also evaluated potential point and non-point sources of contamination in the vicinity of the Ash Landfill and evaluated natural geologic conditions and the effect of those conditions on native groundwater chemistry.

Haley & Aldrich found no errors in sampling, laboratory analysis, data management, or statistical analysis that would result in a potential TDS SSI downgradient of the Ash Landfill at monitoring well CCR-2D. Haley & Aldrich found no apparent evidence of historical point or non-point sources (neither naturally occurring nor anthropogenic) that could be contributing to TDS values in groundwater in the vicinity of the Ash Landfill.

Haley & Aldrich evaluated data and information describing the water quality variability of groundwater in the uppermost aquifer at the Ash Landfill and confirmed statistical analyses of TDS concentrations at monitoring well CCR-2D. Key findings regarding the TDS in groundwater at the Ash Landfill are summarized below:

- Groundwater elevations from the August 2025 semiannual sampling event confirm that CCR-1U and CCR-2U are located hydraulically upgradient of the Ash Landfill.
- TDS concentrations upgradient of the Ash Landfill are higher than downgradient TDS concentrations. TDS concentrations at the upgradient monitoring wells are attributed to natural groundwater quality variability within the aquifer.
- Statistical analyses completed using a TDS UPL developed with upgradient (background) analytical data confirms that TDS concentrations passing the waste boundary at downgradient monitoring well CCR-2D are below background concentrations observed at upgradient monitoring wells.
- Statistical analyses indicate that the TDS concentration observed at downgradient monitoring well CCR-2D during the August 2025 sampling event is a statistical outlier.
- The maximum TDS concentration observed at well CCR-2D downgradient of the Ash Landfill is lower than reported regional concentrations for wells completed in the Kaibab Formation within the region (USEPA, 2025) and lower than upgradient monitoring wells CCR-1U and CCR-2U. The Kaibab Formation and Coconino Sandstone comprise one aquifer (C-Aquifer); therefore, the Ash Landfill monitoring wells are in hydraulic communication with the TDS concentrations observed in the C-Aquifer.

Pursuant to 40 CFR § 257.94(e)(2) and based on these findings, the TDS concentration detected in the groundwater at the Ash Landfill monitoring well CCR-2D in August 2025 is not attributed to the Ash Landfill. Rather, it is attributed to natural variability within the aquifer. TEP will continue to monitor the groundwater quality passing the waste boundary at the Ash Landfill to confirm the findings documented herein.

Based on the data, information, research, and analyses presented in this document, Haley & Aldrich concludes that the source of TDS resulting in an apparent SSI at downgradient monitoring well CCR-2D is natural groundwater quality variability.

References

1. Akers, J. P., 1964. Geology and ground water in the central part of Apache County, Arizona: U.S. Geological Survey Water-Supply Paper 1771.

2. Environmental Data Resources, Inc., 2026a. The EDR Aerial Photo Decade Package. February 17.

3. Environmental Data Resources, Inc., 2026b. The EDR Historical Topo Map Report. February 17.

4. Montgomery & Associates, 2016. Groundwater Sampling and Analysis Program, Springerville Generating Station, Apache County, Arizona. June.

5. Montgomery & Associates, 2024. Hydrogeologic Monitoring Program 2023 – 2024, Springerville Generating Station. October.

6. U.S. Environmental Protection Agency, 2025. Water Quality Portal. https://www.epa.gov/waterdata/water-quality-data. Accessed January 31.

TABLES

TABLE I
SUMMARY OF ANALYTICAL TDS RESULTS
TUCSON ELECTRIC POWER
SPRINGERVILLE GENERATING STATION, ASH LANDFILL
SPRINGERVILLE, ARIZONA

	Total Dissolved Solids (TDS) (mg/L)				
	Upgradient		Downgradient		
Sample Date	CCR-1U	CCR-2U	CCR-1D	CCR-2D	CCR-3D
11/15/2016	3000	4000	2600	3600	2900
12/20/2016	3100	4000	3000	3700	3100
1/31/2017	3100	4000	2800	3700	3000
2/21/2017	2800	3900	2900	3800	3100
3/28/2017	3000	3900	3000	3700	3000
4/27/2017	3000	3900	3000	3700	3100
5/23/2017	3200	3900	2900	3700	3100
6/21/2017	2800	3900	3100	3700	3200
7/18/2017	3300	4000	3200	3800	3200
2/27/2018	3200	3900	3100	3700	3100
5/30/2018 (Verification Sample)	-	-	-	-	-
8/20/2018	3000	4000	-	3800	3200
10/10/2018 (Verification Sample)	-	-	3100	-	-
2/26/2019	3100	3900	3100	3800	3400
4/9/2019	-	-	-	-	-
8/20/2019	3500	4000	3100	-	-
10/1/2019 (Verification Sample)	-	-	-	3700	3100
2/25/2020	3100	3800	2900	3700	3000
8/26/2020	3360	4080	3120	-	3180
10/1/2020 (Verification Sample)	-	-	-	3640	-
2/23/2021	3200	3800	3100	3800	3100
8/24/2021	2930	3640	2840	3510	2830
10/6/2021 (Verification Sample)	-	-	-	-	-
3/1/2022	3100	-	3100	3700	3100
5/4/2022 (Verification Sample)	-	4740	-	-	-
9/7/2022	3220	3990	3190	3790	3120
2/20/2023	3200	3800	638	-	3000
4/13/2023 (Verification Sample)	-	-	-	3800	-
8/22/2023	3180	3900	3170	3700	3130
2/20/2024	3100 J	3900 J	3100 J	3700 J	3100 J
8/13/2024	3700	4000	3200	3800	3200
2/25/2025	3100	3700	3000	3700	3000
8/19/2025	5000	4100	3200	4000	3300
11/4/2025 (Verification Sample)	6900	-	-	3900	-
12/15/2025 (Verification Sample)	-	-	-	3900	-

Notes:

J- = Estimated value

J- = Estimated value, biased low

- = not applicable

mg/L = milligrams per liter

TABLE II
SSI SUMMARY TABLE
TUCSON ELECTRIC POWER COMPANY
SPRINGERVILLE GENERATING STATION, ASH LANDFILL
SPRINGERVILLE, ARIZONA

Well ID	August 2025 (mg/L)	Location	Constituent	Sampling Event	Background Concentration Intrawell (mg/L)	Background Concentration Interwell (mg/L)
CCR-2D	3,900[1]	Downgradient	Total Dissolved Solid	August 2025	3,800	4,740

Notes:

[1] *Result from verification sample collected in December 2025*

mg/L = milligrams per liter

N/A = Not Applicable

SSI = statistically significant increase

TABLE III
HISTORICAL AERIAL PHOTOGRAPH REVIEW SUMMARY
SPRINGERVILLE GENERATING STATION - ASH LANDFILL
SPRINGERVILLE, ARIZONA

Dates	Description of Site	Sources
1953 - 1978	Undeveloped landscape and no roads or structures present.	Aerial photo USGS
1978 - 1984	First development of roads and Ash Landfill starting to be developed.	Aerial photo USGS
1984 - 1996	Development of eastern portion of Ash Landfill. Eastern boundaries similar to current landfill extent.	Aerial photo USGS / DOQQ
1996 - 2007	Continued development of the Ash Landfill.	Aerial photo USGS / NAIP
2007 - 2010	Continued development of the Ash Landfill.	Aerial photo USGS / NAIP
2010 - 2015	Extension of the Ash Landfill.	Aerial photo USGS / NAIP
2019 - 2023	Extension of the Ash Landfill. Roads, structures, and Ash Landfill at current extent.	Aerial photo USGS / NAIP

Notes:

DOQQ = Digital Orthophoto Quadrangle

NAIP = National Agricultural Imagery Program

USDA = United States Department of Agriculture

USGS = United States Geological Survey

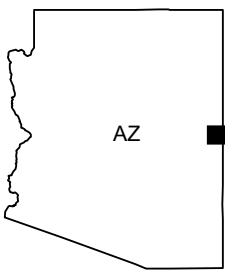
TABLE IV
HISTORICAL TOPOGRAPHIC MAP REVIEW SUMMARY
SPRINGERVILLE GENERATING STATION - ASH LANDFILL
SPRINGERVILLE, ARIZONA

Dates	Description of Site and Adjacent Properties	Map Name
1971	Site appears undeveloped, with some small roads present in the vicinity of and through the current Ash Landfill extent. Water tanks and a well are present to the northwest; a river or stream is present through the northern area, and several small water features are present south of the current extent of the Ash Landfill.	USGS Topographic Map 7.5-Minute Series Voigt Ranch Lyman Lake
1984	Development of county road 4265	USGS Topographic Map 7.5-Minute Series Voigt Ranch Lyman Lake
2014 - 2018	No observable change	USGS Topographic Map 7.5-Minute Series Voigt Ranch Lyman Lake
2021	Removal of access roads present within current extent of Ash Pond.	USGS Topographic Map 7.5-Minute Series Voigt Ranch Lyman Lake

Notes:

USGS = United States Geological Survey

FIGURES



MAP SOURCE: ESRI
SITE COORDINATES: 34°18'17"N, 109°13'55"W

HALEY ALDRICH

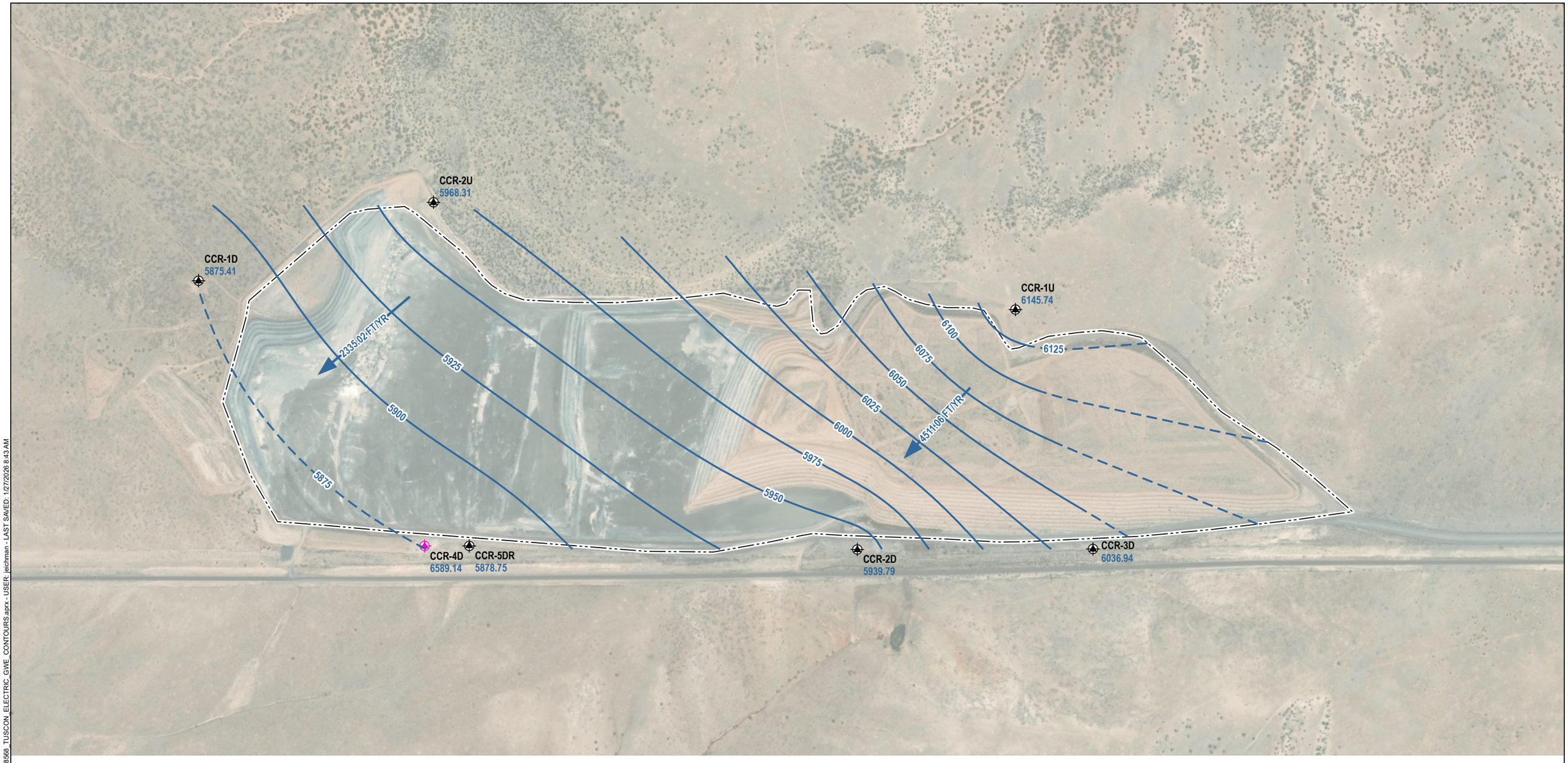
TUSCON ELECTRIC POWER COMPANY
SPRINGERVILLE GENERATING STATION
SPRINGERVILLE, ARIZONA

SITE LOCATION

APPROXIMATE SCALE: 1 IN = 8000 FT
FEBRUARY 2025

FIGURE 1

GIS: \\haleyaldrich.com\share\CF\Projects\0208568\GIS\208568_TUSCON_ELECTRIC_SPATIAL_VARIABILITY.aprx - khensen - 2/17/2025 5:43 PM



LEGEND

- CCR MONITERING WELL
- PROPOSED CCR MONITERING WELL, WATER QUALITY ONLY
- GROUNDWATER ELEVATION CONTOUR, 25-FT INTERVAL, DASHED WHERE INFERRED
- GROUNDWATER FLOW DIRECTION WITH APPROXIMATE FLOW RATE (FEET/YEAR)
- ASH LANDFILL BOUNDARY

NOTES

1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.
2. GROUNDWATER ELEVATION INDICATED IN **BOLD BLUE TEXT** IN FEET ABOVE MEAN SEA LEVEL (AMSL)
3. MONITORING WELL CCR-4D WAS NOT INCLUDED IN THE DATA SET USED TO CREATE THE DISPLAYED GROUNDWATER ELEVATION CONTOURS DUE TO EVIDENCE OF A PERCHED AQUIFER AT THIS MONITERING WELL LOCATION THAT IS NOT REPERSENTATIVE OF THE UNDERLYING UPPERMOST AQUIFER.
4. THE GROUNDWATER FLOW RATE WAS APPROXIMATED USING THE HYDRAULIC GRADIENT CALCULATED FROM GROUNDWATER POTENTIOMETRIC ELEVATIONS MEASURED AUGUST 19 2025 AND THE CONDUCTIVITY VALUES AND EFFECTIVE POROSITY VALUES OBTAINED FROM PUBLISHED SOURCES.
5. AERIAL IMAGERY SOURCE: ESRI

N

0 800 1,600
SCALE IN FEET

HALEY ALDRICH

TUSCON ELECTRIC POWER COMPANY
SPRINGERVILLE GENERATING STATION
SPRINGERVILLE, ARIZONA

GROUNDWATER ELEVATION CONTOUR MAP - AUGUST 2025

FEBRUARY 2026

FIGURE 2

GIS FILE PATH: \\haleyaldrich.com\share\CF\Projects\0208568\GIS\208568_TUSCON_ELECTRIC_GWE_CONTOURS.aprx - USER: jelchman - LAST SAVED: 1/27/2026 8:43 AM

APPENDIX A
Statistical Outlier Summary

Dixon's Test for Outliers

Parameter: Total Dissolved Solids (TDS)

Location: CCR-2D

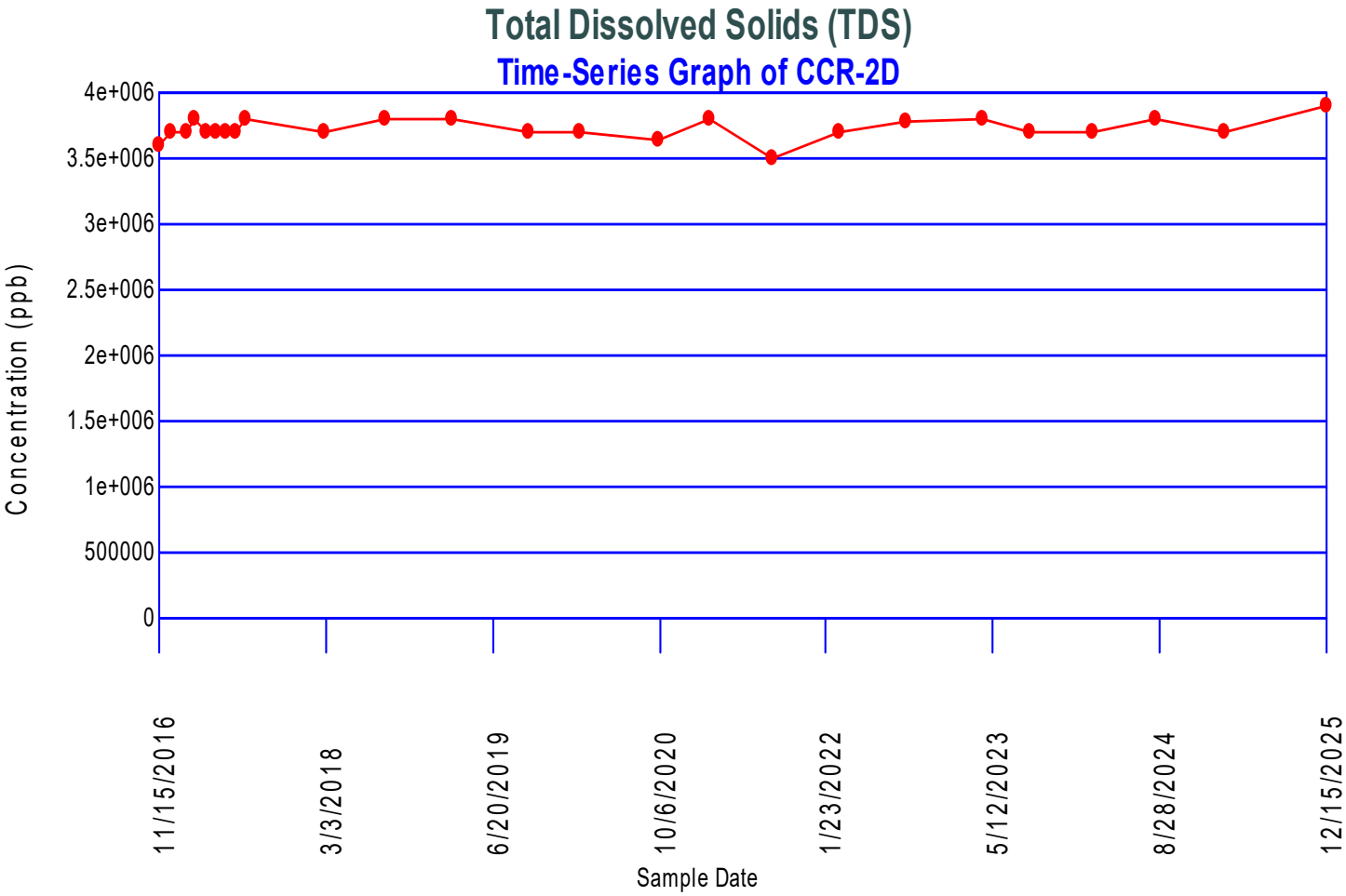
Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

For 25 Measurements...
5% Level of Significance

Iteration	Highest	Lowest	Critical	Outlier
1	0.384615	0.448276	0.406	3.51e+006
2	0.5	0.5	0.413	3.9e+006
3	0	0.5	0.421	3.6e+006
4	0	0.375	0.43	None

Loc.	Date	Conc.	Outlier
CCR-2D	11/15/2016	**3.6e+006**	**TRUE**
	12/20/2016	3.7e+006	FALSE
	1/31/2017	3.7e+006	FALSE
	2/21/2017	3.8e+006	FALSE
	3/28/2017	3.7e+006	FALSE
	4/27/2017	3.7e+006	FALSE
	5/23/2017	3.7e+006	FALSE
	6/21/2017	3.7e+006	FALSE
	7/18/2017	3.8e+006	FALSE
	2/27/2018	3.7e+006	FALSE
	8/20/2018	3.8e+006	FALSE
	2/26/2019	3.8e+006	FALSE
	10/1/2019	3.7e+006	FALSE
	2/25/2020	3.7e+006	FALSE
	10/1/2020	3.64e+006	FALSE
	2/23/2021	3.8e+006	FALSE
	8/24/2021	**3.51e+006**	**TRUE**
	3/1/2022	3.7e+006	FALSE
	9/7/2022	3.79e+006	FALSE
	4/13/2023	3.8e+006	FALSE
	8/22/2023	3.7e+006	FALSE
	2/21/2024	3.7e+006	FALSE
	8/14/2024	3.8e+006	FALSE
	2/25/2025	3.7e+006	FALSE
	12/15/2025	**3.9e+006**	**TRUE**


Total Dissolved Solids (TDS)
Time-Series Graph of CCR-2D
Concentration (ppb)
4e+006
3.5e+006
3e+006
2.5e+006
2e+006
1.5e+006
1e+006
500000
0
11/15/2016
3/3/2018
6/20/2019
10/6/2020
1/23/2022
5/12/2023
8/28/2024
12/15/2025
Sample Date

APPENDIX B
EDR Historical Aerial Photograph Report

Springerville Generating Station

1200 County Road 4162

Saint Johns, AZ 85936

Inquiry Number: 8253418.2

February 17, 2026

The EDR Aerial Photo Decade Package

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Aerial Photo Decade Package

02/17/26

Site Name:

Springerville Generating Statio
1200 County Road 4162
Saint Johns, AZ 85936
EDR Inquiry # 8253418.2

Client Name:

Haley & Aldrich
600 South Meyer Ave Suite 100
Tucson, AZ 85701-0000
Contact: Samantha Kaney

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

Search Results:

Year	Scale	Details	Source
2023	1"=1125'	Flight Year: 2023	USDA/NAIP
2019	1"=1125'	Flight Year: 2019	USDA/NAIP
2015	1"=1125'	Flight Year: 2015	USDA/NAIP
2010	1"=1125'	Flight Year: 2010	USDA/NAIP
2007	1"=1125'	Flight Year: 2007	USDA/NAIP
1996	1"=1125'	Acquisition Date: May 31, 1996	USGS/DOQQ
1984	1"=1125'	Flight Date: June 08, 1984	USGS
1978	1"=1125'	Flight Date: April 11, 1978	USGS
1969	1"=1125'	Flight Date: June 21, 1969	USGS
1953	1"=1125'	Flight Date: November 30, 1953	USGS

When delivered electronically by EDR, the aerial photo images included with this report are for ONE TIME USE ONLY. Further reproduction of these aerial photo images is prohibited without permission from EDR. For more information contact your EDR Account Executive.

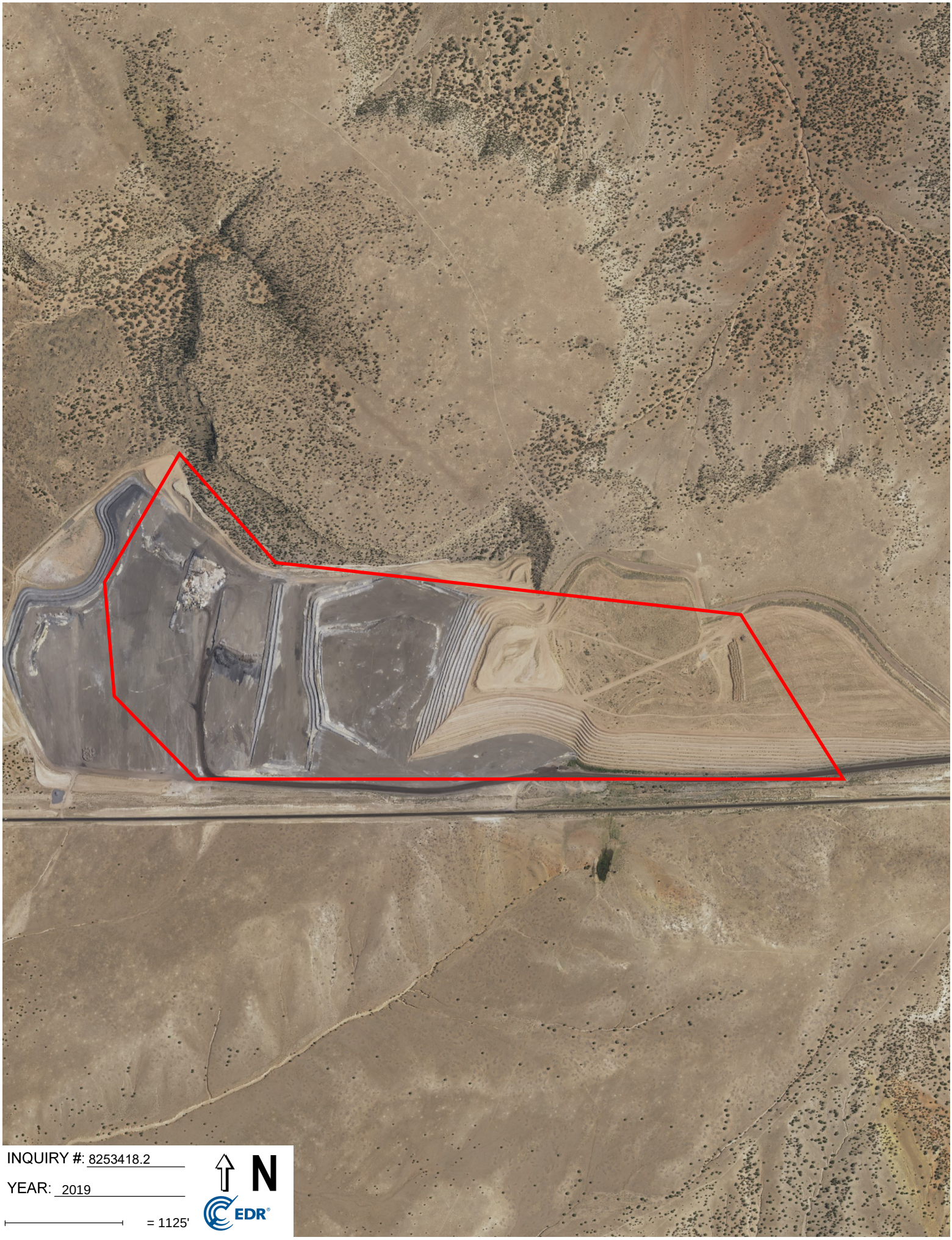
INQUIRY #: 8253418.2

YEAR: 2023

= 1125'

N

EDR



INQUIRY #: 8253418.2

YEAR: 2019

= 1125'

N

EDR

INQUIRY #: 8253418.2

YEAR: 2015

= 1125'

N

EDR

INQUIRY #: 8253418.2

YEAR: 2010

= 1125'

N

EDR

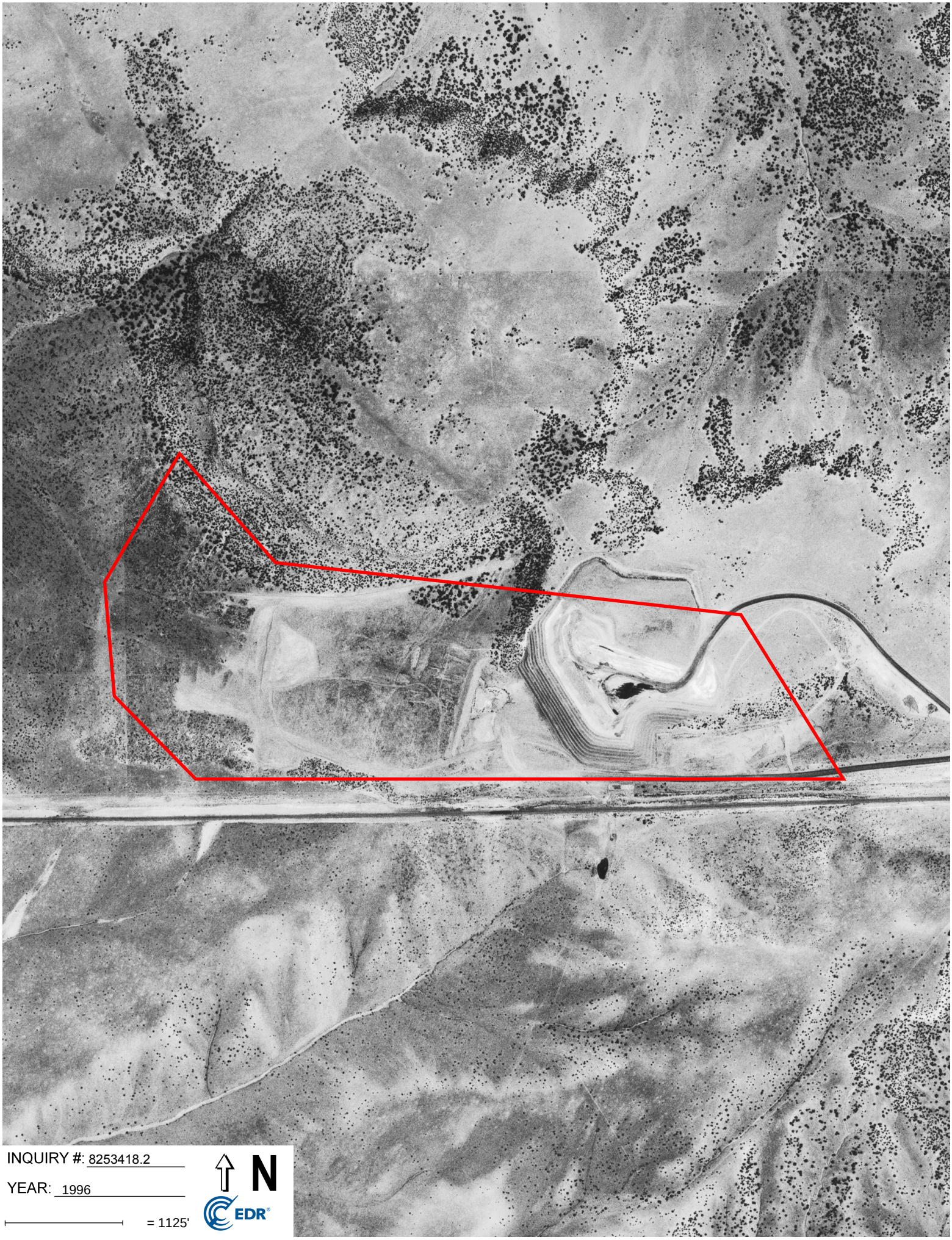
INQUIRY #: 8253418.2

YEAR: 2007

= 1125'

N

EDR



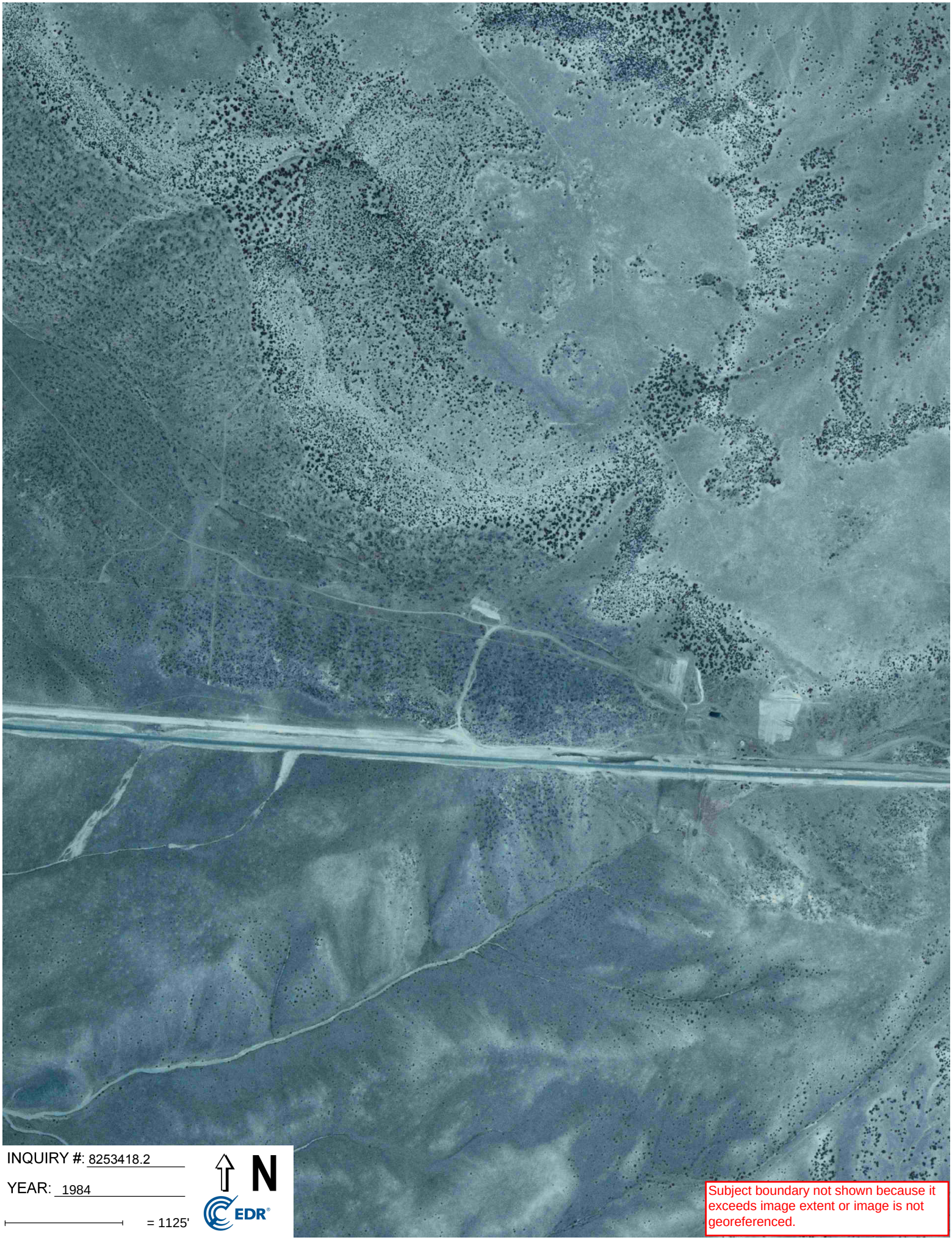
INQUIRY #: 8253418.2

YEAR: 1996

= 1125'

N

EDR



INQUIRY #: 8253418.2

YEAR: 1984

= 1125'

N

EDR

Subject boundary not shown because it exceeds image extent or image is not georeferenced.

INQUIRY #: 8253418.2

YEAR: 1978

= 1125'

N

EDR

Subject boundary not shown because it exceeds image extent or image is not georeferenced.

INQUIRY #: 8253418.2

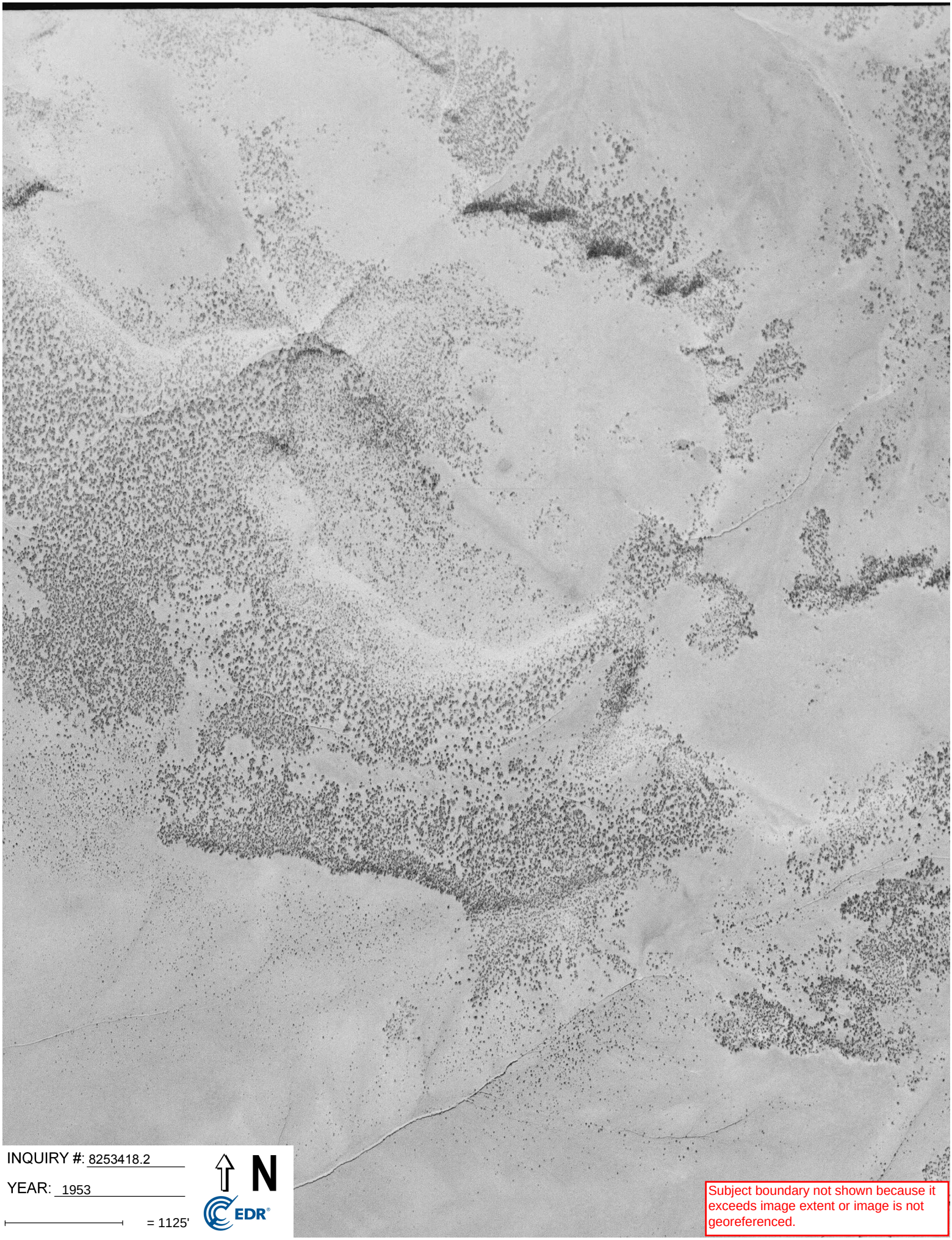
YEAR: 1969

= 1125'

N

EDR

Subject boundary not shown because it exceeds image extent or image is not georeferenced.



INQUIRY #: 8253418.2

YEAR: 1953

= 1125'

N

EDR

Subject boundary not shown because it exceeds image extent or image is not georeferenced.

APPENDIX C
EDR Historical Topographic Photograph Report

Springerville Generating Station

1200 County Road 4162

Saint Johns, AZ 85936

Inquiry Number: 8253418.1

February 17, 2026

EDR Historical Topo Map Report

with QuadMatch™

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Historical Topo Map Report

02/17/26

Site Name:	Client Name:
Springerville Generating Statio	Haley & Aldrich
1200 County Road 4162	600 South Meyer Ave Suite 100
Saint Johns, AZ 85936	Tucson, AZ 85701-0000
EDR Inquiry # 8253418.1	Contact: Samantha Kaney

EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by Haley & Aldrich were identified for the years listed below. EDR's Historical Topo Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topo Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the late 1800s.

Search Results:		*Coordinates:*	
P.O.#	0213269-000-001-04	**Latitude:**	34.304416 34° 18' 16" North
Project:	TEP SGS	**Longitude:**	-109.232407 -109° 13' 57" West
		UTM Zone:	Zone 12 North
		UTM X Meters:	662658.28
		UTM Y Meters:	3797324.19
		Elevation:	6791.00' above sea level

Maps Provided:

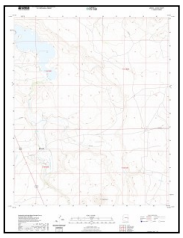
2021
2018
2014
1984
1971

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

2021 Source Sheets

Voigt Ranch
2021
7.5-minute, 24000



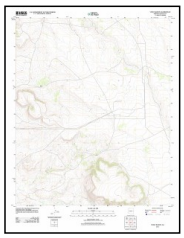
Lyman Lake
2021
7.5-minute, 24000

2018 Source Sheets

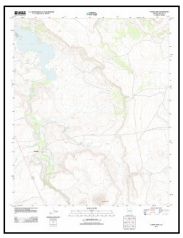
Voigt Ranch
2018
7.5-minute, 24000

Lyman Lake
2018
7.5-minute, 24000

2014 Source Sheets



Voigt Ranch
2014
7.5-minute, 24000



Lyman Lake
2014
7.5-minute, 24000

1984 Source Sheets

Lyman Lake
1984
7.5-minute, 24000
Aerial Photo Revised 1982

Voigt Ranch
1984
7.5-minute, 24000
Aerial Photo Revised 1982

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

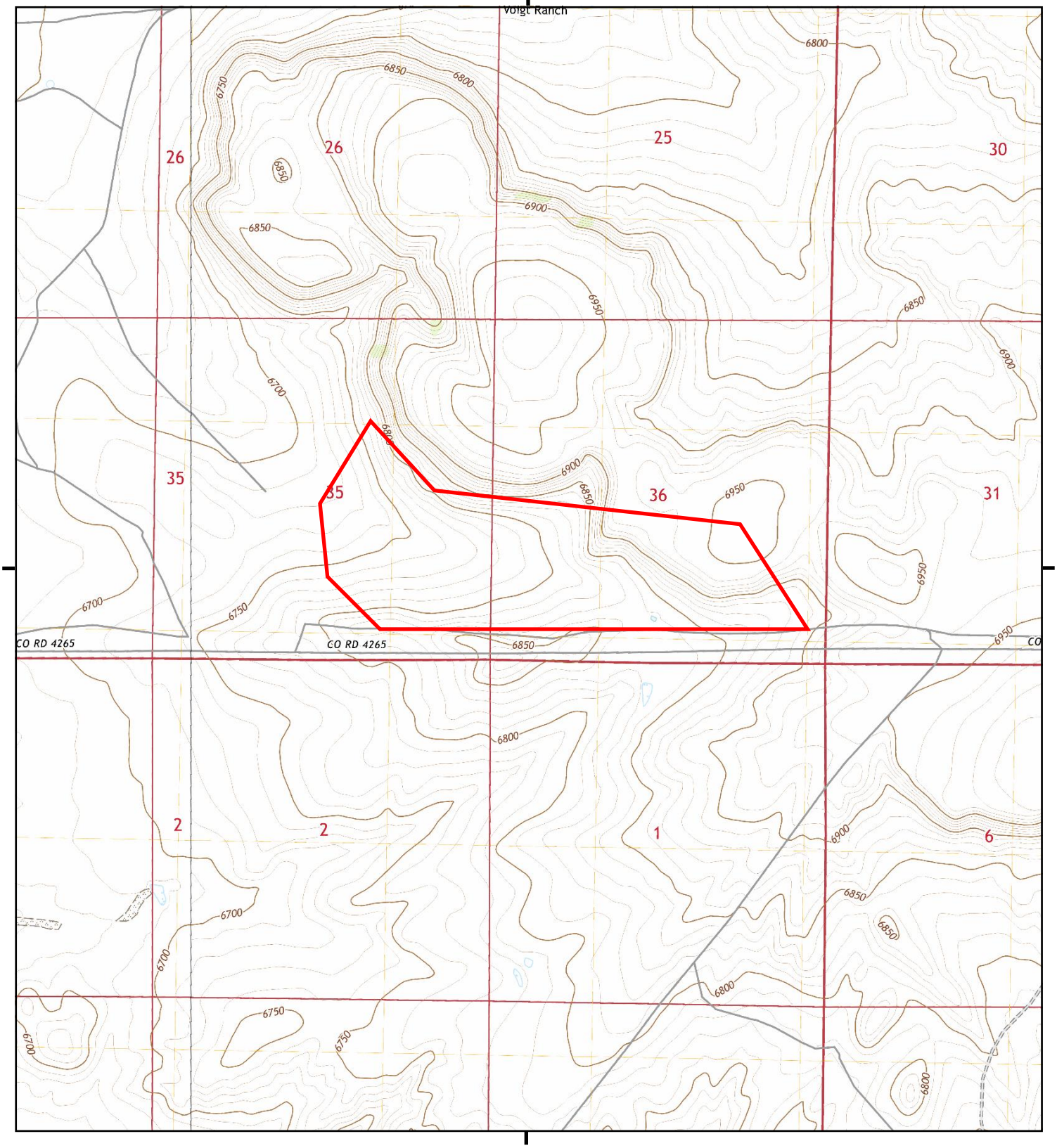
1971 Source Sheets

Voigt Ranch
1971
7.5-minute, 24000
Aerial Photo Revised 1969

Lyman Lake
1971
7.5-minute, 24000
Aerial Photo Revised 1969

Historical Topo Map

2021



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

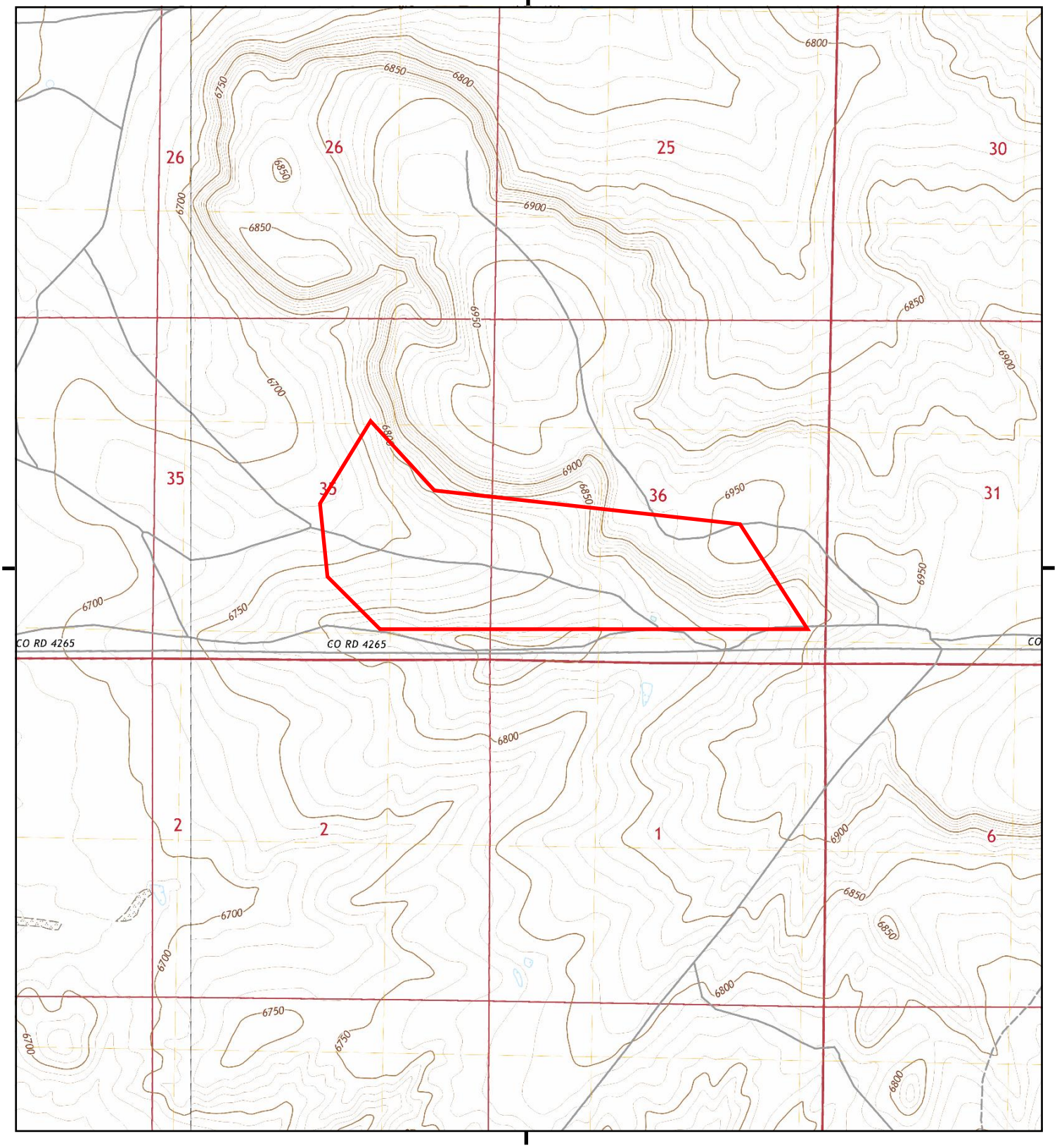
TP, Voigt Ranch, 2021, 7.5-minute
W, Lyman Lake, 2021, 7.5-minute

SITE NAME: Springerville Generating Station
ADDRESS: 1200 County Road 4162
Saint Johns, AZ 85936
CLIENT: Haley & Aldrich

N

Historical Topo Map

2018



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

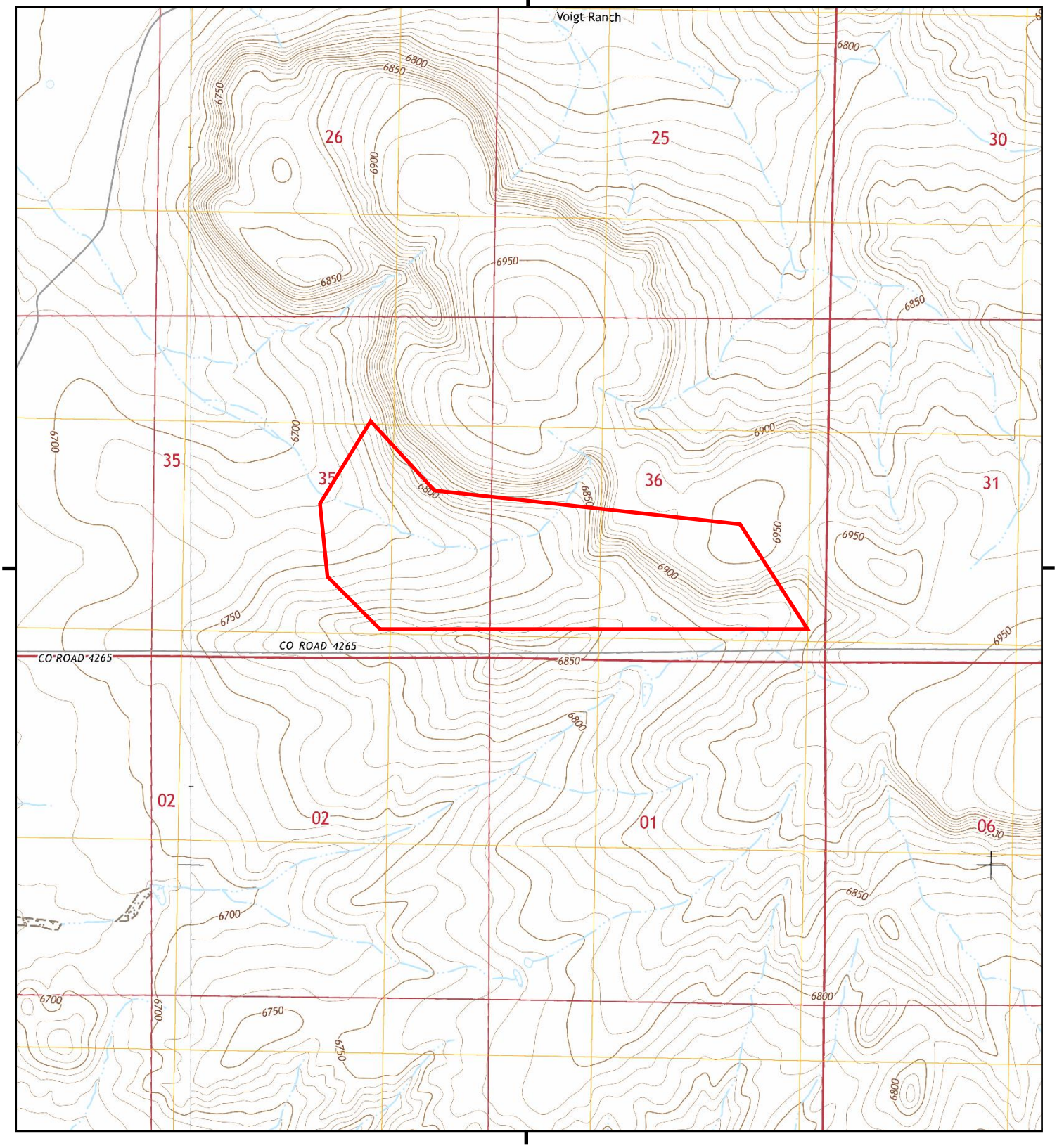
TP, Voigt Ranch, 2018, 7.5-minute
W, Lyman Lake, 2018, 7.5-minute

SITE NAME: Springerville Generating Station
ADDRESS: 1200 County Road 4162
Saint Johns, AZ 85936
CLIENT: Haley & Aldrich

N

Historical Topo Map

2014



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

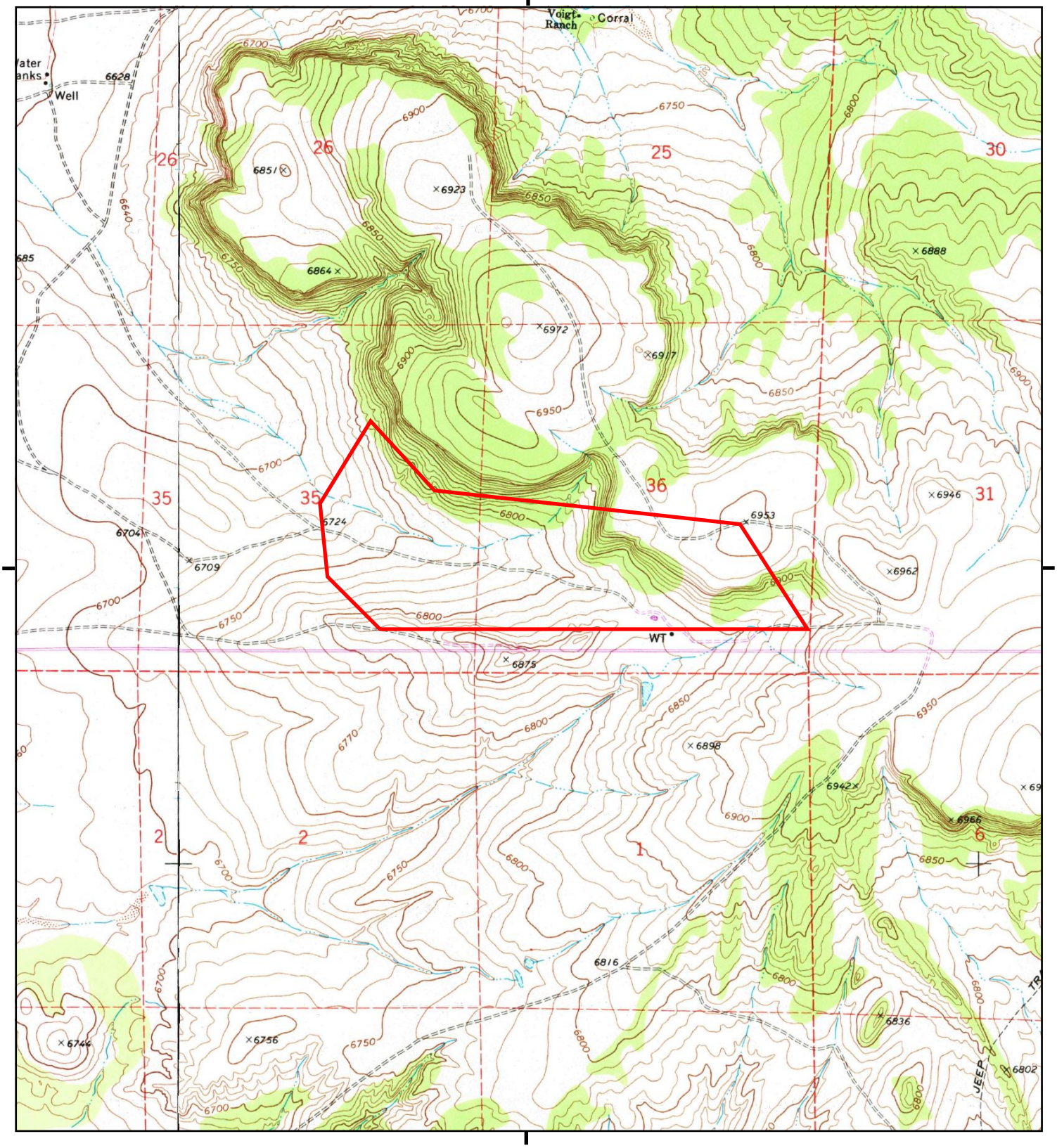
TP, Voigt Ranch, 2014, 7.5-minute
W, Lyman Lake, 2014, 7.5-minute

SITE NAME: Springerville Generating Station
ADDRESS: 1200 County Road 4162
Saint Johns, AZ 85936
CLIENT: Haley & Aldrich

N

Historical Topo Map

1984



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

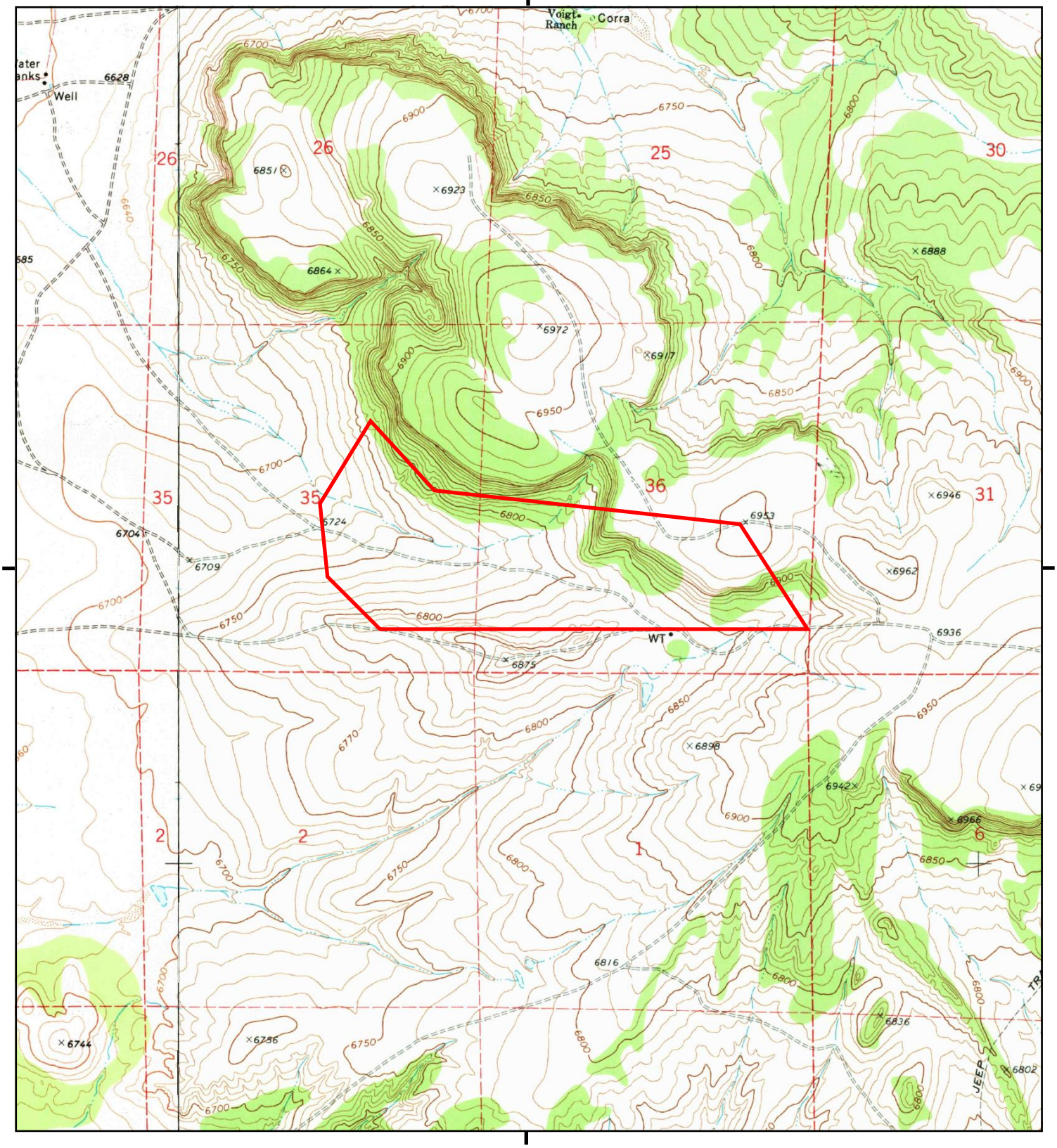
TP, Voigt Ranch, 1984, 7.5-minute
W, Lyman Lake, 1984, 7.5-minute

SITE NAME: Springerville Generating Station
ADDRESS: 1200 County Road 4162
Saint Johns, AZ 85936
CLIENT: Haley & Aldrich

N

Historical Topo Map

1971



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Voigt Ranch, 1971, 7.5-minute
W, Lyman Lake, 1971, 7.5-minute

SITE NAME: Springerville Generating Station
ADDRESS: 1200 County Road 4162
Saint Johns, AZ 85936
CLIENT: Haley & Aldrich

N

APPENDIX D
Regional TDS Groundwater Results

Sample Date	Location Identifier	Total Dissolved Solids Result (mg/L)
3/18/1975	USGS-343010109215201	5180
3/18/1975	USGS-343010109215201	5000
9/12/1947	USGS-344650109114501	3750
3/17/1975	USGS-343824109324901	2870
3/17/1975	USGS-343824109324901	2850
3/18/1975	USGS-342856109211501	2760
3/20/1975	USGS-342348109185001	2680
5/20/1975	USGS-342500109091101	2670
5/20/1975	USGS-342500109091101	2670
3/18/1975	USGS-342856109211501	2670
3/20/1975	USGS-342348109185001	2640
7/2/1975	USGS-343802109293401	2600
3/25/1986	USGS-342946109133501	2580
9/11/1979	USGS-342946109133501	2520
7/2/1975	USGS-343802109293401	2510
4/6/1977	USGS-342946109133501	2490
4/15/1981	USGS-342946109133501	2490
3/18/1987	USGS-342946109133501	2460
3/19/1975	USGS-342207109151801	2450
5/20/1975	USGS-342244109092501	2440
4/10/1979	USGS-342946109133501	2440
3/19/1975	USGS-342207109151801	2430
9/9/1976	USGS-342946109133501	2430
5/20/1975	USGS-342244109092501	2420
3/20/1975	USGS-342946109133501	2390
3/20/1975	USGS-342946109133501	2380
4/13/1976	USGS-342946109133501	2380
3/20/1975	USGS-342728109152201	2340
6/20/1946	USGS-343618109241101	2300
9/9/1976	USGS-342946109133501	2290
3/20/1975	USGS-342728109152201	2270
4/10/1979	USGS-342946109133501	2260
4/13/1976	USGS-342946109133501	2240
5/26/1955	USGS-343034109212701	2210
3/18/1975	USGS-343034109212701	2190
3/18/1975	USGS-343034109212701	2150
3/19/1975	USGS-342110109045801	2140
3/19/1975	USGS-341807109084101	2110
1/7/1975	USGS-342431109244601	2090
3/19/1975	USGS-342110109045801	2070
1/7/1975	USGS-342431109244601	2060
3/19/1975	USGS-341818109061501	2030

Sample Date	Location Identifier	Total Dissolved Solids Result (mg/L)
3/19/1975	USGS-341818109061501	2020
3/19/1975	USGS-341807109084101	1950
3/20/1975	USGS-342633109070601	1950
8/20/1985	USGS-342148109222901	1950
3/20/1975	USGS-342633109070601	1870
3/21/1975	USGS-342703109242001	1830
7/15/1955	USGS-342158109225901	1770
11/17/1966	USGS-343020109214001	1720
9/17/1975	USGS-343155109240501	1720
5/21/1975	USGS-343947109092501	1710
9/17/1975	USGS-343155109240501	1700
3/21/1975	USGS-342703109242001	1690
2/25/1975	USGS-343020109214001	1690
1/17/1975	USGS-342148109222901	1660
2/24/1975	USGS-343501109285001	1640
3/18/1975	USGS-343027109201101	1640
2/25/1975	USGS-343020109214001	1600
5/4/1959	USGS-343026109281501	1580
1/17/1975	USGS-342148109222901	1580
5/21/1975	USGS-343947109092501	1580
2/24/1975	USGS-343501109285001	1510
3/17/1975	USGS-343536109312601	1500
2/22/1975	USGS-343204109275201	1490
3/18/1975	USGS-343027109201101	1480
3/17/1975	USGS-343536109312601	1470
9/12/1975	USGS-343439109270301	1470
3/20/1975	USGS-342957109052701	1420
4/11/1984	USGS-343439109270301	1400
4/9/1979	USGS-343439109270301	1390
9/12/1975	USGS-343439109270301	1370
3/24/1982	USGS-343439109270301	1360
4/30/1980	USGS-343439109270301	1350
1/8/1975	USGS-342203109230601	1320
9/9/1976	USGS-343439109270301	1320
9/9/1976	USGS-343439109270301	1320
10/10/1985	USGS-343439109270301	1320
3/20/1975	USGS-342957109052701	1310
3/18/1987	USGS-343439109270301	1310
4/15/1981	USGS-343439109270301	1300
4/9/1979	USGS-343439109270301	1290
9/25/1981	USGS-343439109270301	1290
3/15/1988	USGS-343439109270301	1290

Sample Date	Location Identifier	Total Dissolved Solids Result (mg/L)
9/20/1977	USGS-343414109142001	1280
4/7/1977	USGS-343414109142001	1280
5/11/1978	USGS-343414109142001	1280
9/21/1984	USGS-343439109270301	1280
1/8/1975	USGS-342203109230601	1270
9/13/1978	USGS-343414109142001	1270
4/10/1979	USGS-343414109142001	1270
9/21/1984	USGS-343439109270301	1270
9/17/1975	USGS-343414109142001	1260
9/14/1978	USGS-343439109270301	1260
4/14/1976	USGS-343439109270301	1250
9/9/1976	USGS-343414109142001	1250
10/13/1983	USGS-343439109270301	1240
2/7/1975	USGS-342949109253301	1230
4/14/1976	USGS-343439109270301	1230
3/24/1986	USGS-343439109270301	1230
2/7/1975	USGS-342949109253301	1220
4/14/1976	USGS-343414109142001	1220
4/14/1976	USGS-343414109142001	1220
4/13/1976	USGS-344206109092901	1200
9/20/1977	USGS-344206109092901	1200
4/7/1977	USGS-343439109270301	1200
7/31/1975	USGS-344206109092901	1190
9/9/1976	USGS-343414109142001	1190
9/12/1979	USGS-343439109270301	1190
10/8/1986	USGS-343439109270301	1190
10/25/1982	USGS-343439109270301	1180
9/23/1987	USGS-343439109270301	1180
7/31/1975	USGS-344206109092901	1170
4/7/1977	USGS-344206109092901	1170
4/13/1976	USGS-344206109092901	1160
4/10/1979	USGS-343414109142001	1160
10/20/1982	USGS-343414109142001	1160
5/21/1975	USGS-343646109093101	1060
4/7/1977	USGS-343646109093101	1000
9/17/1975	USGS-343414109142001	994
9/20/1977	USGS-343646109093101	993
5/21/1975	USGS-343646109093101	950
5/21/1975	USGS-343521109073001	925
5/21/1975	USGS-343521109073001	904
2/7/1975	USGS-343025109262501	891
2/7/1975	USGS-343025109262501	891

Sample Date	Location Identifier	Total Dissolved Solids Result (mg/L)
3/20/1975	USGS-342904109165201	743
3/20/1975	USGS-342904109165201	728
9/21/1984	USGS-343623109403201	486
9/25/1987	USGS-343623109403201	466
4/16/1981	USGS-343623109403201	453
3/17/1987	USGS-343623109403201	443
10/14/1983	USGS-343623109403201	433
4/8/1977	USGS-343623109403201	431
3/24/1982	USGS-343623109403201	430
3/5/1975	USGS-343623109403201	429
3/5/1975	USGS-343623109403201	427
4/10/1979	USGS-343623109403201	427
4/11/1984	USGS-343623109403201	427
3/15/1988	USGS-343623109403201	427
10/25/1982	USGS-343623109403201	425
5/12/1978	USGS-343623109403201	423
4/10/1979	USGS-343623109403201	423
4/14/1976	USGS-343623109403201	417
10/8/1985	USGS-343623109403201	415
3/24/1986	USGS-343623109403201	412
4/30/1980	USGS-343623109403201	405
9/13/1979	USGS-343623109403201	398
9/11/1975	USGS-343623109403201	397
9/25/1981	USGS-343623109403201	397
4/14/1976	USGS-343623109403201	395
9/11/1975	USGS-343623109403201	393
9/14/1978	USGS-343623109403201	378
9/21/1984	USGS-343623109403201	378
9/21/1977	USGS-343623109403201	370

Notes:

mg/L = milligrams per liter

USGS = United States Geological Survey

ATTACHMENT 2
Laboratory Analytical Reports

ATTACHMENT 2-1
February 2025 Semiannual Sampling Event Laboratory Analytical Report

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: James Thomas
Tucson Electric Power
Attn: Accounts Payable
Mail Drop HQE703 PO BOX 3033
Tucson, Arizona 85702-3033

Generated 4/8/2025 12:01:47 PM Revision 1

JOB DESCRIPTION

Springerville - Detection and Assessment

JOB NUMBER

550-229220-3

Eurofins Phoenix
4625 East Cotton Center Boulevard
Suite #189
Phoenix AZ 85040

See page two for job notes and contact information.

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southwest, LLC Project Manager.

Authorization

Generated
4/8/2025 12:01:47 PM
Revision 1

Authorized for release by
Derek Johnson, Project Manager
Derek.Johnson@et.eurofinsus.com
(602)437-3340

Table of Contents

Definitions/Glossary

Client: Tucson Electric Power
Job ID: 550-229220-3
Project/Site: Springerville - Detection and Assessment

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
D2	Sample required dilution due to high concentration of analyte.
E2	Concentration estimated. Analyte exceeded calibration range. Reanalysis not performed due to sample matrix.
E4	Concentration estimated. Analyte was detected below laboratory minimum reporting level (MRL) but above MDL.
E8	Analyte reported to MDL per project specification. Target analyte was not detected in the sample.
M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The associated blank spike was acceptable.

Metals

Qualifier	Qualifier Description
E4	Concentration estimated. Analyte was detected below laboratory minimum reporting level (MRL) but above MDL.
E8	Analyte reported to MDL per project specification. Target analyte was not detected in the sample.
M2	Matrix spike recovery was low, the associated blank spike recovery was acceptable.
M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The associated blank spike was acceptable.

General Chemistry

Qualifier	Qualifier Description
E8	Analyte reported to MDL per project specification. Target analyte was not detected in the sample.
H5	This test is specified to be performed in the field within 15 minutes of sampling; sample was received and analyzed past the regulatory holding time.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 550-229220-1 Eurofins Phoenix

Job Narrative
550-229220-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 2/26/2025 3:15 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.9°C.

Receipt Exceptions
The COC is requesting Appendix III and Appendix IV for all 7 sample sets received.

Client only provided sample volume for Appendix III for all 7 samples.
Sample #6 has 2 extra containers, this is the only sample that has additional sample volume for Appendix IV.

Did not login release the job, logged in Appendix III for all 7 samples, did not login Appendix IV.

CCR-2D (550-229220-1), CCR-3D (550-229220-2), CCR-2U (550-229220-3), CCR-2U-DUP (550-229220-4), CCR-1D (550-229220-5), CCR-4D (550-229220-6) and CCR-1U (550-229220-7)

HPLC/IC
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Job ID: 550-229220-2 Eurofins Phoenix

Job Narrative
550-229220-2

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
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CCR-2D (550-229220-1), CCR-3D (550-229220-2), CCR-2U (550-229220-3), CCR-2U-DUP (550-229220-4), CCR-1D (550-229220-5), CCR-4D (550-229220-6) and CCR-1U (550-229220-7)

Subcontract Work
Method Radium 226/228: This method was subcontracted to Radiation Safety Eng., Inc. The subcontract laboratory certification is different from that of the facility issuing the final report. The subcontract report is appended in its entirety.

HPLC/IC
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals
Method 200.8_LL - Total Recoverable: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 570-540688 and analytical batch 570-540980 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Job ID: 550-229220-3 Eurofins Phoenix

Job Narrative
550-229220-3

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 2/26/2025 3:15 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.9°C.

Receipt Exceptions
The COC is requesting Appendix III and Appendix IV for all 7 sample sets received.

Client only provided sample volume for Appendix III for all 7 samples.
Sample #6 has 2 extra containers, this is the only sample that has additional sample volume for Appendix IV.

Did not login release the job, logged in Appendix III for all 7 samples, did not login Appendix IV.

CCR-2D (550-229220-1), CCR-3D (550-229220-2), CCR-2U (550-229220-3), CCR-2U-DUP (550-229220-4), CCR-1D (550-229220-5), CCR-4D (550-229220-6) and CCR-1U (550-229220-7)

General Chemistry
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Sample Summary

Client: Tucson Electric Power
Job ID: 550-229220-3
Project/Site: Springerville - Detection and Assessment

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
550-229220-1	CCR-2D	Water	02/25/25 08:40	02/26/25 15:15
550-229220-2	CCR-3D	Water	02/25/25 10:15	02/26/25 15:15
550-229220-3	CCR-2U	Water	02/25/25 11:50	02/26/25 15:15
550-229220-4	CCR-2U-DUP	Water	02/25/25 11:55	02/26/25 15:15
550-229220-5	CCR-1D	Water	02/25/25 13:40	02/26/25 15:15
550-229220-6	CCR-4D	Water	02/26/25 08:00	02/26/25 15:15
550-229220-7	CCR-1U	Water	02/26/25 09:30	02/26/25 15:15

Detection Summary

Client: Tucson Electric Power
Job ID: 550-229220-3
Project/Site: Springerville - Detection and Assessment

Client Sample ID: CCR-2D — Lab Sample ID: 550-229220-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	2.5		0.40	0.11	mg/L	1		300.0	Total/NA
Chloride	480	D2	40	23	mg/L	20		300.0	Total/NA
Sulfate	1600	D2	40	8.5	mg/L	20		300.0	Total/NA
Boron	0.92		0.050	0.0094	mg/L	1		200.7 Rev 4.4	Total/NA
Calcium	670		2.0	0.068	mg/L	1		200.7 Rev 4.4	Total/NA
Total Dissolved Solids	3700		100	100	mg/L	1		SM 2540C	Total/NA
pH	6.8	H5	1.7	1.7	SU	1		SM 4500 H+ B	Total/NA

Client Sample ID: CCR-3D — Lab Sample ID: 550-229220-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	2.6		0.40	0.11	mg/L	1		300.0	Total/NA
Chloride	490	D2	40	23	mg/L	20		300.0	Total/NA
Sulfate	1200	D2	40	8.5	mg/L	20		300.0	Total/NA
Boron	0.87		0.050	0.0094	mg/L	1		200.7 Rev 4.4	Total/NA
Calcium	450		2.0	0.068	mg/L	1		200.7 Rev 4.4	Total/NA
Total Dissolved Solids	3000		100	100	mg/L	1		SM 2540C	Total/NA
pH	6.7	H5	1.7	1.7	SU	1		SM 4500 H+ B	Total/NA

Client Sample ID: CCR-2U — Lab Sample ID: 550-229220-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	2.2		0.40	0.11	mg/L	1		300.0	Total/NA
Chloride	430	D2	100	56	mg/L	50		300.0	Total/NA
Sulfate	1800	D2	100	21	mg/L	50		300.0	Total/NA
Boron	1.2		0.050	0.0094	mg/L	1		200.7 Rev 4.4	Total/NA
Calcium	740		2.0	0.068	mg/L	1		200.7 Rev 4.4	Total/NA
Total Dissolved Solids	3700		100	100	mg/L	1		SM 2540C	Total/NA
pH	6.6	H5	1.7	1.7	SU	1		SM 4500 H+ B	Total/NA

Client Sample ID: CCR-2U-DUP — Lab Sample ID: 550-229220-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	2.2		0.40	0.11	mg/L	1		300.0	Total/NA
Chloride	430	D2	100	56	mg/L	50		300.0	Total/NA
Sulfate	1800	D2	100	21	mg/L	50		300.0	Total/NA
Boron	1.1		0.050	0.0094	mg/L	1		200.7 Rev 4.4	Total/NA
Calcium	700		2.0	0.068	mg/L	1		200.7 Rev 4.4	Total/NA
Total Dissolved Solids	3700		100	100	mg/L	1		SM 2540C	Total/NA
pH	7.3	H5	1.7	1.7	SU	1		SM 4500 H+ B	Total/NA
pH	6.6	H5	1.7	1.7	SU	1		SM 4500 H+ B	Total/NA

Client Sample ID: CCR-1D — Lab Sample ID: 550-229220-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	2.8		0.40	0.11	mg/L	1		300.0	Total/NA
Chloride	480	D2	40	23	mg/L	20		300.0	Total/NA
Sulfate	1300	D2	40	8.5	mg/L	20		300.0	Total/NA
Boron	0.85		0.050	0.0094	mg/L	1		200.7 Rev 4.4	Total/NA
Calcium	480		2.0	0.068	mg/L	1		200.7 Rev 4.4	Total/NA
Total Dissolved Solids	3000		100	100	mg/L	1		SM 2540C	Total/NA
pH	7.5	H5	1.7	1.7	SU	1		SM 4500 H+ B	Total/NA
pH	6.9	H5	1.7	1.7	SU	1		SM 4500 H+ B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Tucson Electric Power
Project/Site: Springerville - Detection and Assessment

Job ID: 550-229220-3

Client Sample ID: CCR-4D — Lab Sample ID: 550-229220-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	0.16	E4	0.40	0.11	mg/L	1		300.0	Total/NA
Chloride	3200	D2	200	110	mg/L	100		300.0	Total/NA
Sulfate	2600	D2	200	43	mg/L	100		300.0	Total/NA
Boron	1.3		0.050	0.0094	mg/L	1		200.7 Rev 4.4	Total/NA
Calcium	750		2.0	0.068	mg/L	1		200.7 Rev 4.4	Total/NA
Lithium	1.2		0.050	0.026	mg/L	1		200.7 Rev 4.4	Total Recoverable
Arsenic	0.00037		0.00020	0.000083	mg/L	1		200.8	Total Recoverable
Barium	0.011		0.00050	0.00019	mg/L	1		200.8	Total Recoverable
Chromium	0.00036	E4	0.0010	0.00012	mg/L	1		200.8	Total Recoverable
Cobalt	0.000092	E4	0.00020	0.000039	mg/L	1		200.8	Total Recoverable
Molybdenum	0.0093		0.00050	0.00016	mg/L	1		200.8	Total Recoverable
Selenium	0.029		0.0010	0.00071	mg/L	1		200.8	Total Recoverable
Thallium	0.00017	E4	0.00020	0.000081	mg/L	1		200.8	Total Recoverable
Total Dissolved Solids	9400		200	200	mg/L	1		SM 2540C	Total/NA
pH	7.7	H5	1.7	1.7	SU	1		SM 4500 H+ B	Total/NA

Client Sample ID: CCR-1U — Lab Sample ID: 550-229220-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	3.4		0.40	0.11	mg/L	1		300.0	Total/NA
Chloride	500	D2	100	56	mg/L	50		300.0	Total/NA
Sulfate	1300	D2	100	21	mg/L	50		300.0	Total/NA
Boron	0.87		0.050	0.0094	mg/L	1		200.7 Rev 4.4	Total/NA
Calcium	460		2.0	0.068	mg/L	1		200.7 Rev 4.4	Total/NA
Total Dissolved Solids	3100		100	100	mg/L	1		SM 2540C	Total/NA
pH	7.8	H5	1.7	1.7	SU	1		SM 4500 H+ B	Total/NA
pH	6.8	H5	1.7	1.7	SU	1		SM 4500 H+ B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: CCR-2D
Lab Sample ID: 550-229220-1
Date Collected: 02/25/25 08:40
Matrix: Water
Date Received: 02/26/25 15:15

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	2.5		0.40	0.11	mg/L			02/27/25 13:21	1
Chloride	480	D2	40	23	mg/L			02/27/25 13:31	20
Sulfate	1600	D2	40	8.5	mg/L			02/27/25 13:31	20

Method: EPA 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.92		0.050	0.0094	mg/L		02/27/25 15:30	02/28/25 19:08	1
Calcium	670		2.0	0.068	mg/L		02/27/25 15:30	02/28/25 19:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	3700		100	100	mg/L			03/03/25 11:00	1
pH (SM 4500 H+ B)	6.8	H5	1.7	1.7	SU			02/27/25 17:43	1

Client Sample ID: CCR-3D
Lab Sample ID: 550-229220-2
Date Collected: 02/25/25 10:15
Matrix: Water
Date Received: 02/26/25 15:15

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	2.6		0.40	0.11	mg/L			02/27/25 13:41	1
Chloride	490	D2	40	23	mg/L			02/27/25 13:51	20
Sulfate	1200	D2	40	8.5	mg/L			02/27/25 13:51	20

Method: EPA 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.87		0.050	0.0094	mg/L		02/27/25 15:30	02/28/25 19:11	1
Calcium	450		2.0	0.068	mg/L		02/27/25 15:30	02/28/25 19:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	3000		100	100	mg/L			03/03/25 11:00	1
pH (SM 4500 H+ B)	6.7	H5	1.7	1.7	SU			02/27/25 17:45	1

Client Sample ID: CCR-2U
Lab Sample ID: 550-229220-3
Date Collected: 02/25/25 11:50
Matrix: Water
Date Received: 02/26/25 15:15

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	2.2		0.40	0.11	mg/L			02/27/25 14:01	1
Chloride	430	D2	100	56	mg/L			02/27/25 14:12	50
Sulfate	1800	D2	100	21	mg/L			02/27/25 14:12	50

Method: EPA 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1.2		0.050	0.0094	mg/L		02/27/25 15:30	02/28/25 19:15	1
Calcium	740		2.0	0.068	mg/L		02/27/25 15:30	02/28/25 19:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	3700		100	100	mg/L			03/03/25 11:00	1

Client Sample ID: CCR-2U
Lab Sample ID: 550-229220-3
Date Collected: 02/25/25 11:50
Matrix: Water
Date Received: 02/26/25 15:15

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SM 4500 H+ B)	6.6	H5	1.7	1.7	SU			02/27/25 17:47	1

Client Sample ID: CCR-2U-DUP
Lab Sample ID: 550-229220-4
Date Collected: 02/25/25 11:55
Matrix: Water
Date Received: 02/26/25 15:15

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	2.2		0.40	0.11	mg/L			02/27/25 14:52	1
Chloride	430	D2	100	56	mg/L			02/27/25 15:02	50
Sulfate	1800	D2	100	21	mg/L			02/27/25 15:02	50

Method: EPA 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1.1		0.050	0.0094	mg/L		02/27/25 15:30	02/28/25 19:18	1
Calcium	700		2.0	0.068	mg/L		02/27/25 15:30	02/28/25 19:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	3700		100	100	mg/L			03/03/25 11:00	1
pH (SM 4500 H+ B)	7.3	H5	1.7	1.7	SU			02/27/25 18:18	1
pH (SM 4500 H+ B)	6.6	H5	1.7	1.7	SU			03/26/25 16:35	1

Client Sample ID: CCR-1D
Lab Sample ID: 550-229220-5
Date Collected: 02/25/25 13:40
Matrix: Water
Date Received: 02/26/25 15:15

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	2.8		0.40	0.11	mg/L			02/27/25 15:12	1
Chloride	480	D2	40	23	mg/L			02/27/25 15:22	20
Sulfate	1300	D2	40	8.5	mg/L			02/27/25 15:22	20

Method: EPA 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.85		0.050	0.0094	mg/L		02/27/25 15:30	02/28/25 19:21	1
Calcium	480		2.0	0.068	mg/L		02/27/25 15:30	02/28/25 19:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	3000		100	100	mg/L			03/03/25 11:00	1
pH (SM 4500 H+ B)	7.5	H5	1.7	1.7	SU			02/27/25 18:18	1
pH (SM 4500 H+ B)	6.9	H5	1.7	1.7	SU			03/26/25 16:35	1

Client Sample ID: CCR-4D
Lab Sample ID: 550-229220-6
Date Collected: 02/26/25 08:00
Matrix: Water
Date Received: 02/26/25 15:15

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.16	E4	0.40	0.11	mg/L			02/27/25 15:32	1
Chloride	3200	D2	200	110	mg/L			02/27/25 15:52	100

Client Sample ID: CCR-4D
Lab Sample ID: 550-229220-6
Date Collected: 02/26/25 08:00
Matrix: Water
Date Received: 02/26/25 15:15

Method: EPA 300.0 - Anions, Ion Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**2600**	**D2**	200	43	mg/L			02/27/25 15:52	100

Method: EPA 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	ND	E8	0.0010	0.00073	mg/L		02/27/25 15:30	02/28/25 19:25	1
Boron	**1.3**		0.050	0.0094	mg/L		02/27/25 15:30	02/28/25 19:25	1
Calcium	**750**		2.0	0.068	mg/L		02/27/25 15:30	02/28/25 19:25	1

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	**1.2**		0.050	0.026	mg/L		03/04/25 06:46	03/04/25 17:20	1

Method: EPA 200.8 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND	E8	0.0010	0.00051	mg/L		03/04/25 06:52	03/04/25 14:12	1
Arsenic	**0.00037**		0.00020	0.000083	mg/L		03/04/25 06:52	03/04/25 14:12	1
Barium	**0.011**		0.00050	0.00019	mg/L		03/04/25 06:52	03/04/25 14:12	1
Cadmium	ND	E8	0.00020	0.000044	mg/L		03/04/25 06:52	03/04/25 14:12	1
Beryllium	ND	E8	0.50	0.22	ug/L		03/04/25 06:52	03/04/25 14:12	1
Chromium	**0.00036**	**E4**	0.0010	0.00012	mg/L		03/04/25 06:52	03/04/25 14:12	1
Cobalt	**0.000092**	**E4**	0.00020	0.000039	mg/L		03/04/25 06:52	03/04/25 14:12	1
Lead	ND	E8	0.00020	0.00012	mg/L		03/04/25 06:52	03/04/25 14:12	1
Molybdenum	**0.0093**		0.00050	0.00016	mg/L		03/04/25 06:52	03/04/25 14:12	1
Selenium	**0.029**		0.0010	0.00071	mg/L		03/04/25 06:52	03/04/25 14:12	1
Thallium	**0.00017**	**E4**	0.00020	0.000081	mg/L		03/04/25 06:52	03/04/25 14:12	1

Method: EPA 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND	E8	0.00020	0.000070	mg/L		03/04/25 16:09	03/05/25 09:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**9400**		200	200	mg/L			03/04/25 17:10	1
pH (SM 4500 H+ B)	**7.7**	**H5**	1.7	1.7	SU			02/27/25 18:18	1

Client Sample ID: CCR-1U
Lab Sample ID: 550-229220-7
Date Collected: 02/26/25 09:30
Matrix: Water
Date Received: 02/26/25 15:15

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	**3.4**		0.40	0.11	mg/L			02/27/25 16:02	1
Chloride	**500**	**D2**	100	56	mg/L			02/27/25 16:12	50
Sulfate	**1300**	**D2**	100	21	mg/L			02/27/25 16:12	50

Method: EPA 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	**0.87**		0.050	0.0094	mg/L		02/27/25 15:30	02/28/25 19:28	1
Calcium	**460**		2.0	0.068	mg/L		02/27/25 15:30	02/28/25 19:28	1

Client Sample Results

Client: Tucson Electric Power
Job ID: 550-229220-3
Project/Site: Springerville - Detection and Assessment

Client Sample ID: CCR-1U
Lab Sample ID: 550-229220-7
Date Collected: 02/26/25 09:30
Matrix: Water
Date Received: 02/26/25 15:15

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	3100		100	100	mg/L			03/03/25 11:00	1
pH (SM 4500 H+ B)	7.8	H5	1.7	1.7	SU			02/27/25 18:18	1
pH (SM 4500 H+ B)	6.8	H5	1.7	1.7	SU			03/26/25 16:35	1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 550-331281/2
Matrix: Water
Analysis Batch: 331281

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND	E8	0.40	0.11	mg/L			02/27/25 09:59	1
Chloride	ND	E8	2.0	1.1	mg/L			02/27/25 09:59	1
Sulfate	ND	E8	2.0	0.43	mg/L			02/27/25 09:59	1

Lab Sample ID: LCS 550-331281/5
Matrix: Water
Analysis Batch: 331281

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	4.00	4.24		mg/L		106	90 - 110
Chloride	20.0	20.1		mg/L		100	90 - 110
Sulfate	20.0	19.6		mg/L		98	90 - 110

Lab Sample ID: LCSD 550-331281/6
Matrix: Water
Analysis Batch: 331281

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoride	4.00	4.36		mg/L		109	90 - 110	3	20
Chloride	20.0	20.3		mg/L		102	90 - 110	1	20
Sulfate	20.0	20.0		mg/L		100	90 - 110	2	20

Lab Sample ID: 550-229226-A-1 MS
Matrix: Water
Analysis Batch: 331281

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	0.38	E4	4.00	4.08		mg/L		93	80 - 120
Chloride	110	M3	20.0	128	M3	mg/L		75	80 - 120
Sulfate	260	E2 M3	20.0	263	E2 M3	mg/L		3	80 - 120

Lab Sample ID: 550-229226-A-1 MSD
Matrix: Water
Analysis Batch: 331281

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoride	0.38	E4	4.00	4.54		mg/L		104	80 - 120	11	20
Chloride	110	M3	20.0	129	M3	mg/L		82	80 - 120	1	20
Sulfate	260	E2 M3	20.0	265	E2 M3	mg/L		12	80 - 120	1	20

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 550-331307/1-B
Matrix: Water
Analysis Batch: 331406

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 331318

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	ND	E8	0.050	0.0094	mg/L		02/27/25 15:30	02/28/25 19:01	1
Calcium	ND	E8	2.0	0.068	mg/L		02/27/25 15:30	02/28/25 19:01	1

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Lab Sample ID: MB 550-331318/1-A
Matrix: Water
Analysis Batch: 331418

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 331318

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	ND	E8	0.0010	0.00073	mg/L		02/27/25 15:30	02/28/25 18:41	1
Boron	ND	E8	0.050	0.0094	mg/L		02/27/25 15:30	02/28/25 18:41	1
Calcium	ND	E8	2.0	0.068	mg/L		02/27/25 15:30	02/28/25 18:41	1

Lab Sample ID: LCS 550-331318/2-A
Matrix: Water
Analysis Batch: 331418

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 331318

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	1.00	0.884		mg/L		88	85 - 115
Boron	1.00	0.977		mg/L		98	85 - 115
Calcium	21.0	20.7		mg/L		99	85 - 115

Lab Sample ID: LCSD 550-331318/3-A
Matrix: Water
Analysis Batch: 331418

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 331318

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Beryllium	1.00	0.901		mg/L		90	85 - 115	2	20
Boron	1.00	0.994		mg/L		99	85 - 115	2	20
Calcium	21.0	21.0		mg/L		100	85 - 115	1	20

Lab Sample ID: 550-229253-L-1-A MS
Matrix: Water
Analysis Batch: 331406

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 331318

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	0.045	E4	1.00	1.09		mg/L		105	70 - 130
Calcium	440	M3	21.0	456	M3	mg/L		87	70 - 130

Lab Sample ID: 550-229253-L-1-B MSD
Matrix: Water
Analysis Batch: 331406

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 331318

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron	0.045	E4	1.00	1.06		mg/L		101	70 - 130	3	20
Calcium	440	M3	21.0	437	M3	mg/L		-5	70 - 130	4	20

Lab Sample ID: MB 570-540676/1-A
Matrix: Water
Analysis Batch: 541039

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 540676

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	ND	E8	0.050	0.026	mg/L		03/04/25 06:27	03/04/25 13:53	1

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Lab Sample ID: LCS 570-540676/2-A
Matrix: Water
Analysis Batch: 541039

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 540676

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	0.500	0.496		mg/L		99	85 - 115

Lab Sample ID: LCSD 570-540676/3-A
Matrix: Water
Analysis Batch: 541039

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 540676

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lithium	0.500	0.475		mg/L		95	85 - 115	4	20

Lab Sample ID: 570-220206-B-7-B MS
Matrix: Water
Analysis Batch: 541039

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 540676

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	ND	E8	0.500	0.509		mg/L		102	80 - 120

Lab Sample ID: 570-220206-B-7-C MSD
Matrix: Water
Analysis Batch: 541039

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 540676

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lithium	ND	E8	0.500	0.511		mg/L		102	80 - 120	0	20

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 570-540688/1-A
Matrix: Water
Analysis Batch: 540980

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 540688

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND	E8	0.0010	0.00051	mg/L		03/04/25 06:52	03/04/25 13:25	1
Arsenic	ND	E8	0.00020	0.000083	mg/L		03/04/25 06:52	03/04/25 13:25	1
Barium	ND	E8	0.00050	0.00019	mg/L		03/04/25 06:52	03/04/25 13:25	1
Cadmium	ND	E8	0.00020	0.000044	mg/L		03/04/25 06:52	03/04/25 13:25	1
Beryllium	ND	E8	0.50	0.22	ug/L		03/04/25 06:52	03/04/25 13:25	1
Chromium	ND	E8	0.0010	0.00012	mg/L		03/04/25 06:52	03/04/25 13:25	1
Cobalt	ND	E8	0.00020	0.000039	mg/L		03/04/25 06:52	03/04/25 13:25	1
Lead	ND	E8	0.00020	0.00012	mg/L		03/04/25 06:52	03/04/25 13:25	1
Molybdenum	ND	E8	0.00050	0.00016	mg/L		03/04/25 06:52	03/04/25 13:25	1
Selenium	ND	E8	0.0010	0.00071	mg/L		03/04/25 06:52	03/04/25 13:25	1
Thallium	ND	E8	0.00020	0.000081	mg/L		03/04/25 06:52	03/04/25 13:25	1

Lab Sample ID: LCS 570-540688/2-A
Matrix: Water
Analysis Batch: 540980

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 540688

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.0800	0.0684		mg/L		86	85 - 115
Arsenic	0.0800	0.0739		mg/L		92	85 - 115
Barium	0.0800	0.0747		mg/L		93	85 - 115

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 570-540688/2-A
Matrix: Water
Analysis Batch: 540980

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 540688

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cadmium	0.0800	0.0748		mg/L		94	85 - 115
Beryllium	80.0	77.0		ug/L		96	85 - 115
Chromium	0.0800	0.0746		mg/L		93	85 - 115
Cobalt	0.0800	0.0734		mg/L		92	85 - 115
Lead	0.0800	0.0745		mg/L		93	85 - 115
Molybdenum	0.0800	0.0763		mg/L		95	85 - 115
Selenium	0.0800	0.0755		mg/L		94	85 - 115
Thallium	0.0800	0.0769		mg/L		96	85 - 115

Lab Sample ID: LCSD 570-540688/3-A
Matrix: Water
Analysis Batch: 540980

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 540688

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	0.0800	0.0707		mg/L		88	85 - 115	3	20
Arsenic	0.0800	0.0747		mg/L		93	85 - 115	1	20
Barium	0.0800	0.0760		mg/L		95	85 - 115	2	20
Cadmium	0.0800	0.0749		mg/L		94	85 - 115	0	20
Beryllium	80.0	77.9		ug/L		97	85 - 115	1	20
Chromium	0.0800	0.0758		mg/L		95	85 - 115	2	20
Cobalt	0.0800	0.0749		mg/L		94	85 - 115	2	20
Lead	0.0800	0.0753		mg/L		94	85 - 115	1	20
Molybdenum	0.0800	0.0779		mg/L		97	85 - 115	2	20
Selenium	0.0800	0.0763		mg/L		95	85 - 115	1	20
Thallium	0.0800	0.0768		mg/L		96	85 - 115	0	20

Lab Sample ID: 570-220137-G-2-B MS
Matrix: Water
Analysis Batch: 540980

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 540688

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.0013	M2	0.0800	0.0438	M2	mg/L		53	80 - 120
Arsenic	0.0056		0.0800	0.0744		mg/L		86	80 - 120
Barium	0.26		0.0800	0.333		mg/L		95	80 - 120
Cadmium	0.00013	E4	0.0800	0.0732		mg/L		91	80 - 120
Beryllium	0.52		80.0	71.1		ug/L		88	80 - 120
Chromium	0.040		0.0800	0.112		mg/L		89	80 - 120
Cobalt	0.012		0.0800	0.0800		mg/L		85	80 - 120
Lead	0.0074		0.0800	0.0791		mg/L		90	80 - 120
Molybdenum	0.0012	M2	0.0800	0.0585	M2	mg/L		72	80 - 120
Selenium	0.0014		0.0800	0.0706		mg/L		87	80 - 120
Thallium	0.00013	E4	0.0800	0.0713		mg/L		89	80 - 120

Lab Sample ID: 570-220137-G-2-C MSD
Matrix: Water
Analysis Batch: 540980

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 540688

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	0.0013	M2	0.0800	0.0443	M2	mg/L		54	80 - 120	1	20

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: 570-220137-G-2-C MSD
Matrix: Water
Analysis Batch: 540980

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 540688

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	0.0056		0.0800	0.0753		mg/L		87	80 - 120	1	20
Barium	0.26		0.0800	0.325		mg/L		84	80 - 120	3	20
Cadmium	0.00013	E4	0.0800	0.0735		mg/L		92	80 - 120	0	20
Beryllium	0.52		80.0	73.1		ug/L		91	80 - 120	3	20
Chromium	0.040		0.0800	0.111		mg/L		88	80 - 120	1	20
Cobalt	0.012		0.0800	0.0810		mg/L		86	80 - 120	1	20
Lead	0.0074		0.0800	0.0793		mg/L		90	80 - 120	0	20
Molybdenum	0.0012	M2	0.0800	0.0601	M2	mg/L		74	80 - 120	3	20
Selenium	0.0014		0.0800	0.0712		mg/L		87	80 - 120	1	20
Thallium	0.00013	E4	0.0800	0.0717		mg/L		89	80 - 120	1	20

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 550-331461/1-A
Matrix: Water
Analysis Batch: 331497

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 331461

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND	E8	0.00020	0.000070	mg/L		03/04/25 16:09	03/05/25 08:50	1

Lab Sample ID: LCS 550-331461/2-A
Matrix: Water
Analysis Batch: 331497

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 331461

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00500	0.00449		mg/L		90	85 - 115

Lab Sample ID: LCSD 550-331461/3-A
Matrix: Water
Analysis Batch: 331497

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 331461

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.00500	0.00502		mg/L		100	85 - 115	11	20

Lab Sample ID: 550-229220-6 MS
Matrix: Water
Analysis Batch: 331497

Client Sample ID: CCR-4D
Prep Type: Total/NA
Prep Batch: 331461

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	ND	E8	0.00500	0.00606		mg/L		121	70 - 130

Lab Sample ID: 550-229220-6 MSD
Matrix: Water
Analysis Batch: 331497

Client Sample ID: CCR-4D
Prep Type: Total/NA
Prep Batch: 331461

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	ND	E8	0.00500	0.00607		mg/L		121	70 - 130	0	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 550-331399/1
Matrix: Water
Analysis Batch: 331399

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND	E8	20	20	mg/L			03/03/25 11:00	1

Lab Sample ID: LCS 550-331399/2
Matrix: Water
Analysis Batch: 331399

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	1000	936		mg/L		94	90 - 110

Lab Sample ID: LCSD 550-331399/3
Matrix: Water
Analysis Batch: 331399

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids	1000	938		mg/L		94	90 - 110	0	10

Lab Sample ID: 550-229220-1 DU
Matrix: Water
Analysis Batch: 331399

Client Sample ID: CCR-2D
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	3700		3340		mg/L		10	10

Lab Sample ID: 550-229226-A-4 DU
Matrix: Water
Analysis Batch: 331399

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	1100		1030		mg/L		4	10

Lab Sample ID: MB 550-331466/1
Matrix: Water
Analysis Batch: 331466

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND	E8	20	20	mg/L			03/04/25 17:10	1

Lab Sample ID: LCS 550-331466/2
Matrix: Water
Analysis Batch: 331466

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	1000	998		mg/L		100	90 - 110

Lab Sample ID: LCSD 550-331466/3
Matrix: Water
Analysis Batch: 331466

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids	1000	998		mg/L		100	90 - 110	0	10

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: 550-229250-E-8 DU
Matrix: Water
Analysis Batch: 331466

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	1500			1480		mg/L				0.7	10

Method: SM 4500 H+ B - pH

Lab Sample ID: LCSSRM 550-331322/1
Matrix: Water
Analysis Batch: 331322

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits		
pH			7.00	7.0		SU		100.4	98.5 - 101.5		

Lab Sample ID: LCSSRM 550-331330/14
Matrix: Water
Analysis Batch: 331330

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits		
pH			7.00	7.0		SU		100.7	98.5 - 101.5		

Lab Sample ID: LCSSRM 550-331330/2
Matrix: Water
Analysis Batch: 331330

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits		
pH			7.00	7.0		SU		100.5	98.5 - 101.5		

Lab Sample ID: 550-229262-A-1 DU
Matrix: Water
Analysis Batch: 331330

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
pH	7.9			7.9		SU				0.06	5

Lab Sample ID: LCSSRM 550-332251/1
Matrix: Water
Analysis Batch: 332251

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits		
pH			7.00	7.0		SU		100.2	98.5 - 101.5		

Lab Sample ID: LCSSRM 550-332251/13
Matrix: Water
Analysis Batch: 332251

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits		
pH			7.00	7.0		SU		100.4	98.5 - 101.5		

Method: SM 4500 H+ B - pH (Continued)

Lab Sample ID: 550-229220-4 DU
Client Sample ID: CCR-2U-DUP
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 332251

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
pH	6.6	H5		6.7		SU				0.1	5

HPLC/IC

Analysis Batch: 331281

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-229220-1	CCR-2D	Total/NA	Water	300.0	
550-229220-1	CCR-2D	Total/NA	Water	300.0	
550-229220-2	CCR-3D	Total/NA	Water	300.0	
550-229220-2	CCR-3D	Total/NA	Water	300.0	
550-229220-3	CCR-2U	Total/NA	Water	300.0	
550-229220-3	CCR-2U	Total/NA	Water	300.0	
550-229220-4	CCR-2U-DUP	Total/NA	Water	300.0	
550-229220-4	CCR-2U-DUP	Total/NA	Water	300.0	
550-229220-5	CCR-1D	Total/NA	Water	300.0	
550-229220-5	CCR-1D	Total/NA	Water	300.0	
550-229220-6	CCR-4D	Total/NA	Water	300.0	
550-229220-6	CCR-4D	Total/NA	Water	300.0	
550-229220-7	CCR-1U	Total/NA	Water	300.0	
550-229220-7	CCR-1U	Total/NA	Water	300.0	
MB 550-331281/2	Method Blank	Total/NA	Water	300.0	
LCS 550-331281/5	Lab Control Sample	Total/NA	Water	300.0	
LCSD 550-331281/6	Lab Control Sample Dup	Total/NA	Water	300.0	
550-229226-A-1 MS	Matrix Spike	Total/NA	Water	300.0	
550-229226-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	

Metals

Filtration Batch: 331307

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 550-331307/1-B	Method Blank	Total/NA	Water	Filtration	

Prep Batch: 331318

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-229220-1	CCR-2D	Total/NA	Water	200.7	
550-229220-2	CCR-3D	Total/NA	Water	200.7	
550-229220-3	CCR-2U	Total/NA	Water	200.7	
550-229220-4	CCR-2U-DUP	Total/NA	Water	200.7	
550-229220-5	CCR-1D	Total/NA	Water	200.7	
550-229220-6	CCR-4D	Total/NA	Water	200.7	
550-229220-7	CCR-1U	Total/NA	Water	200.7	
MB 550-331307/1-B	Method Blank	Total/NA	Water	200.7	331307
MB 550-331318/1-A	Method Blank	Total/NA	Water	200.7	
LCS 550-331318/2-A	Lab Control Sample	Total/NA	Water	200.7	
LCSD 550-331318/3-A	Lab Control Sample Dup	Total/NA	Water	200.7	
550-229253-L-1-A MS	Matrix Spike	Total/NA	Water	200.7	
550-229253-L-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	200.7	

Analysis Batch: 331406

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-229220-1	CCR-2D	Total/NA	Water	200.7 Rev 4.4	331318
550-229220-2	CCR-3D	Total/NA	Water	200.7 Rev 4.4	331318
550-229220-3	CCR-2U	Total/NA	Water	200.7 Rev 4.4	331318
550-229220-4	CCR-2U-DUP	Total/NA	Water	200.7 Rev 4.4	331318
550-229220-5	CCR-1D	Total/NA	Water	200.7 Rev 4.4	331318
550-229220-6	CCR-4D	Total/NA	Water	200.7 Rev 4.4	331318
550-229220-7	CCR-1U	Total/NA	Water	200.7 Rev 4.4	331318

Metals (Continued)

Analysis Batch: 331406 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 550-331307/1-B	Method Blank	Total/NA	Water	200.7 Rev 4.4	331318
MB 550-331318/1-A	Method Blank	Total/NA	Water	200.7 Rev 4.4	331318
LCS 550-331318/2-A	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	331318
LCSD 550-331318/3-A	Lab Control Sample Dup	Total/NA	Water	200.7 Rev 4.4	331318
550-229253-L-1-A MS	Matrix Spike	Total/NA	Water	200.7 Rev 4.4	331318
550-229253-L-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	200.7 Rev 4.4	331318

Analysis Batch: 331418

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-229220-6	CCR-4D	Total/NA	Water	200.7 Rev 4.4	331318
MB 550-331318/1-A	Method Blank	Total/NA	Water	200.7 Rev 4.4	331318
LCS 550-331318/2-A	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	331318
LCSD 550-331318/3-A	Lab Control Sample Dup	Total/NA	Water	200.7 Rev 4.4	331318

Prep Batch: 331461

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-229220-6	CCR-4D	Total/NA	Water	245.1	
MB 550-331461/1-A	Method Blank	Total/NA	Water	245.1	
LCS 550-331461/2-A	Lab Control Sample	Total/NA	Water	245.1	
LCSD 550-331461/3-A	Lab Control Sample Dup	Total/NA	Water	245.1	
550-229220-6 MS	CCR-4D	Total/NA	Water	245.1	
550-229220-6 MSD	CCR-4D	Total/NA	Water	245.1	

Analysis Batch: 331497

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-229220-6	CCR-4D	Total/NA	Water	245.1	331461
MB 550-331461/1-A	Method Blank	Total/NA	Water	245.1	331461
LCS 550-331461/2-A	Lab Control Sample	Total/NA	Water	245.1	331461
LCSD 550-331461/3-A	Lab Control Sample Dup	Total/NA	Water	245.1	331461
550-229220-6 MS	CCR-4D	Total/NA	Water	245.1	331461
550-229220-6 MSD	CCR-4D	Total/NA	Water	245.1	331461

Prep Batch: 540676

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-229220-6	CCR-4D	Total Recoverable	Water	200.7	
MB 570-540676/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 570-540676/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
LCSD 570-540676/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7	
570-220206-B-7-B MS	Matrix Spike	Total Recoverable	Water	200.7	
570-220206-B-7-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	200.7	

Prep Batch: 540688

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-229220-6	CCR-4D	Total Recoverable	Water	200.8	
MB 570-540688/1-A	Method Blank	Total Recoverable	Water	200.8	
LCS 570-540688/2-A	Lab Control Sample	Total Recoverable	Water	200.8	
LCSD 570-540688/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.8	
570-220137-G-2-B MS	Matrix Spike	Total Recoverable	Water	200.8	
570-220137-G-2-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	200.8	

Metals

Analysis Batch: 540980

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-229220-6	CCR-4D	Total Recoverable	Water	200.8	540688
MB 570-540688/1-A	Method Blank	Total Recoverable	Water	200.8	540688
LCS 570-540688/2-A	Lab Control Sample	Total Recoverable	Water	200.8	540688
LCSD 570-540688/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.8	540688
570-220137-G-2-B MS	Matrix Spike	Total Recoverable	Water	200.8	540688
570-220137-G-2-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	200.8	540688

Analysis Batch: 541039

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-229220-6	CCR-4D	Total Recoverable	Water	200.7 Rev 4.4	540676
MB 570-540676/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	540676
LCS 570-540676/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	540676
LCSD 570-540676/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7 Rev 4.4	540676
570-220206-B-7-B MS	Matrix Spike	Total Recoverable	Water	200.7 Rev 4.4	540676
570-220206-B-7-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	200.7 Rev 4.4	540676

General Chemistry

Analysis Batch: 331322

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-229220-1	CCR-2D	Total/NA	Water	SM 4500 H+ B	
550-229220-2	CCR-3D	Total/NA	Water	SM 4500 H+ B	
550-229220-3	CCR-2U	Total/NA	Water	SM 4500 H+ B	
LCSSRM 550-331322/1	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 331330

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-229220-4	CCR-2U-DUP	Total/NA	Water	SM 4500 H+ B	
550-229220-5	CCR-1D	Total/NA	Water	SM 4500 H+ B	
550-229220-6	CCR-4D	Total/NA	Water	SM 4500 H+ B	
550-229220-7	CCR-1U	Total/NA	Water	SM 4500 H+ B	
LCSSRM 550-331330/14	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	
LCSSRM 550-331330/2	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	
550-229262-A-1 DU	Duplicate	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 331399

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-229220-1	CCR-2D	Total/NA	Water	SM 2540C	
550-229220-2	CCR-3D	Total/NA	Water	SM 2540C	
550-229220-3	CCR-2U	Total/NA	Water	SM 2540C	
550-229220-4	CCR-2U-DUP	Total/NA	Water	SM 2540C	
550-229220-5	CCR-1D	Total/NA	Water	SM 2540C	
550-229220-7	CCR-1U	Total/NA	Water	SM 2540C	
MB 550-331399/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 550-331399/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 550-331399/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
550-229220-1 DU	CCR-2D	Total/NA	Water	SM 2540C	
550-229226-A-4 DU	Duplicate	Total/NA	Water	SM 2540C	

QC Association Summary

Client: Tucson Electric Power
Job ID: 550-229220-3
Project/Site: Springerville - Detection and Assessment

General Chemistry

Analysis Batch: 331466

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-229220-6	CCR-4D	Total/NA	Water	SM 2540C	
MB 550-331466/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 550-331466/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 550-331466/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
550-229250-E-8 DU	Duplicate	Total/NA	Water	SM 2540C	

Analysis Batch: 332251

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-229220-4	CCR-2U-DUP	Total/NA	Water	SM 4500 H+ B	
550-229220-5	CCR-1D	Total/NA	Water	SM 4500 H+ B	
550-229220-7	CCR-1U	Total/NA	Water	SM 4500 H+ B	
LCSSRM 550-332251/1	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	
LCSSRM 550-332251/13	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	
550-229220-4 DU	CCR-2U-DUP	Total/NA	Water	SM 4500 H+ B	

Lab Chronicle

Client: Tucson Electric Power
Job ID: 550-229220-3
Project/Site: Springerville - Detection and Assessment

Client Sample ID: CCR-2D
Lab Sample ID: 550-229220-1
Date Collected: 02/25/25 08:40
Matrix: Water
Date Received: 02/26/25 15:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	300.0		1	331281	R1K	EET PHX	02/27/25 13:21
Total/NA	Analysis	300.0		20	331281	R1K	EET PHX	02/27/25 13:31
Total/NA	Prep	200.7			331318	JAO	EET PHX	02/27/25 15:30
Total/NA	Analysis	200.7 Rev 4.4		1	331406	JAC	EET PHX	02/28/25 19:08
Total/NA	Analysis	SM 2540C		1	331399	ALS	EET PHX	03/03/25 11:00 - 03/04/25 17:06 [1]
Total/NA	Analysis	SM 4500 H+ B		1	331322	KMS	EET PHX	02/27/25 17:43

Client Sample ID: CCR-3D
Lab Sample ID: 550-229220-2
Date Collected: 02/25/25 10:15
Matrix: Water
Date Received: 02/26/25 15:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	300.0		1	331281	R1K	EET PHX	02/27/25 13:41
Total/NA	Analysis	300.0		20	331281	R1K	EET PHX	02/27/25 13:51
Total/NA	Prep	200.7			331318	JAO	EET PHX	02/27/25 15:30
Total/NA	Analysis	200.7 Rev 4.4		1	331406	JAC	EET PHX	02/28/25 19:11
Total/NA	Analysis	SM 2540C		1	331399	ALS	EET PHX	03/03/25 11:00 - 03/04/25 17:06 [1]
Total/NA	Analysis	SM 4500 H+ B		1	331322	KMS	EET PHX	02/27/25 17:45

Client Sample ID: CCR-2U
Lab Sample ID: 550-229220-3
Date Collected: 02/25/25 11:50
Matrix: Water
Date Received: 02/26/25 15:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	300.0		1	331281	R1K	EET PHX	02/27/25 14:01
Total/NA	Analysis	300.0		50	331281	R1K	EET PHX	02/27/25 14:12
Total/NA	Prep	200.7			331318	JAO	EET PHX	02/27/25 15:30
Total/NA	Analysis	200.7 Rev 4.4		1	331406	JAC	EET PHX	02/28/25 19:15
Total/NA	Analysis	SM 2540C		1	331399	ALS	EET PHX	03/03/25 11:00 - 03/04/25 17:06 [1]
Total/NA	Analysis	SM 4500 H+ B		1	331322	KMS	EET PHX	02/27/25 17:47

Client Sample ID: CCR-2U-DUP
Lab Sample ID: 550-229220-4
Date Collected: 02/25/25 11:55
Matrix: Water
Date Received: 02/26/25 15:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	300.0		1	331281	R1K	EET PHX	02/27/25 14:52
Total/NA	Analysis	300.0		50	331281	R1K	EET PHX	02/27/25 15:02
Total/NA	Prep	200.7			331318	JAO	EET PHX	02/27/25 15:30
Total/NA	Analysis	200.7 Rev 4.4		1	331406	JAC	EET PHX	02/28/25 19:18
Total/NA	Analysis	SM 2540C		1	331399	ALS	EET PHX	03/03/25 11:00 - 03/04/25 17:06 [1]
Total/NA	Analysis	SM 4500 H+ B		1	331330	KMS	EET PHX	02/27/25 18:18
Total/NA	Analysis	SM 4500 H+ B		1	332251	ALS	EET PHX	03/26/25 16:35

Lab Chronicle

Client: Tucson Electric Power
Job ID: 550-229220-3
Project/Site: Springerville - Detection and Assessment

Client Sample ID: CCR-1D
Lab Sample ID: 550-229220-5
Date Collected: 02/25/25 13:40
Matrix: Water
Date Received: 02/26/25 15:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	300.0		1	331281	R1K	EET PHX	02/27/25 15:12
Total/NA	Analysis	300.0		20	331281	R1K	EET PHX	02/27/25 15:22
Total/NA	Prep	200.7			331318	JAO	EET PHX	02/27/25 15:30
Total/NA	Analysis	200.7 Rev 4.4		1	331406	JAC	EET PHX	02/28/25 19:21
Total/NA	Analysis	SM 2540C		1	331399	ALS	EET PHX	03/03/25 11:00 - 03/04/25 17:06 [1]
Total/NA	Analysis	SM 4500 H+ B		1	331330	KMS	EET PHX	02/27/25 18:18
Total/NA	Analysis	SM 4500 H+ B		1	332251	ALS	EET PHX	03/26/25 16:35

Client Sample ID: CCR-4D
Lab Sample ID: 550-229220-6
Date Collected: 02/26/25 08:00
Matrix: Water
Date Received: 02/26/25 15:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	300.0		1	331281	R1K	EET PHX	02/27/25 15:32
Total/NA	Analysis	300.0		100	331281	R1K	EET PHX	02/27/25 15:52
Total Recoverable	Prep	200.7			540676	JP8N	EET CAL 4	03/04/25 06:46
Total Recoverable	Analysis	200.7 Rev 4.4		1	541039	P1R	EET CAL 4	03/04/25 17:20
Total/NA	Prep	200.7			331318	JAO	EET PHX	02/27/25 15:30
Total/NA	Analysis	200.7 Rev 4.4		1	331406	JAC	EET PHX	02/28/25 19:25
Total/NA	Prep	200.7			331318	JAO	EET PHX	02/27/25 15:30
Total/NA	Analysis	200.7 Rev 4.4		1	331418	JAC	EET PHX	02/28/25 19:25
Total Recoverable	Prep	200.8			540688	JP8N	EET CAL 4	03/04/25 06:52
Total Recoverable	Analysis	200.8		1	540980	P1R	EET CAL 4	03/04/25 14:12
Total/NA	Prep	245.1			331461	KMG	EET PHX	03/04/25 16:09
Total/NA	Analysis	245.1		1	331497	KMG	EET PHX	03/05/25 09:03
Total/NA	Analysis	SM 2540C		1	331466	KMG	EET PHX	03/04/25 17:10 - 03/05/25 04:02 [1]
Total/NA	Analysis	SM 4500 H+ B		1	331330	KMS	EET PHX	02/27/25 18:18

Client Sample ID: CCR-1U
Lab Sample ID: 550-229220-7
Date Collected: 02/26/25 09:30
Matrix: Water
Date Received: 02/26/25 15:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	300.0		1	331281	R1K	EET PHX	02/27/25 16:02
Total/NA	Analysis	300.0		50	331281	R1K	EET PHX	02/27/25 16:12
Total/NA	Prep	200.7			331318	JAO	EET PHX	02/27/25 15:30
Total/NA	Analysis	200.7 Rev 4.4		1	331406	JAC	EET PHX	02/28/25 19:28
Total/NA	Analysis	SM 2540C		1	331399	ALS	EET PHX	03/03/25 11:00 - 03/04/25 17:06 [1]
Total/NA	Analysis	SM 4500 H+ B		1	331330	KMS	EET PHX	02/27/25 18:18
Total/NA	Analysis	SM 4500 H+ B		1	332251	ALS	EET PHX	03/26/25 16:35

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Lab Chronicle

Client: Tucson Electric Power
Job ID: 550-229220-3
Project/Site: Springerville - Detection and Assessment

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

EET PHX = Eurofins Phoenix, 4625 East Cotton Center Boulevard, Suite #189, Phoenix, AZ 85040, TEL (602)437-3340

Radiation = Radiation Safety, 3245 North Washington Street, Chandler, AZ 85225

Accreditation/Certification Summary

Client: Tucson Electric Power
Job ID: 550-229220-3
Project/Site: Springerville - Detection and Assessment

Laboratory: Eurofins Phoenix

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arizona	State	AZ0728	06-10-25

Laboratory: Eurofins Calscience

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	7296.01	11-30-26
Arizona	State	AZ0830	11-16-25
Arkansas DEQ	State	88-01672	07-02-25
California	Los Angeles County Sanitation Districts	9257304	07-31-26
California	SCAQMD LAP	17LA0919	11-30-25
California	State	3082	07-31-25
Kansas	NELAP	E-10420	07-31-25
Nevada	State	CA00111	07-31-25
Oregon	NELAP	4175	02-02-26
USDA	US Federal Programs	525-23-159-97150	06-08-26
Utah	NELAP	CA001112025-8	02-28-26
Washington	State	C916	10-11-25

Method Summary

Client: Tucson Electric Power
Job ID: 550-229220-3
Project/Site: Springerville - Detection and Assessment

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	EPA	EET PHX
200.7 Rev 4.4	Metals (ICP)	EPA	EET CAL 4
200.7 Rev 4.4	Metals (ICP)	EPA	EET PHX
200.8	Metals (ICP/MS)	EPA	EET CAL 4
245.1	Mercury (CVAA)	EPA	EET PHX
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET PHX
SM 4500 H+ B	pH	SM	EET PHX
Subcontract	Radium 226/228	None	Radiation
200.7	Preparation, Total Recoverable Metals	EPA	EET CAL 4
200.7	Preparation, Total Metals	EPA	EET PHX
200.8	Preparation, Total Recoverable Metals	EPA	EET CAL 4
245.1	Preparation, Mercury	EPA	EET PHX

Protocol References:

EPA = US Environmental Protection Agency
None = None
SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494
EET PHX = Eurofins Phoenix, 4625 East Cotton Center Boulevard, Suite #189, Phoenix, AZ 85040, TEL (602)437-3340
Radiation = Radiation Safety, 3245 North Washington Street, Chandler, AZ 85225

Radiation Safety Engineering, Inc.
3245 N. WASHINGTON ST. • CHANDLER, ARIZONA 85225-1121 (480) 897-9459
Website: www.radsafe.com FAX (480) 892-5446

Radiochemical Activity in Water (pCi/L)

TestAmerica
4625 E. Cotton Center Blvd., Suite #189
Phoenix, AZ 85040

Sampling Date: February 26, 2025
Sample Received: March 03, 2025
Analysis Completed: March 19, 2025

Sample ID	Radium 226 Activity Method GammaRay HPGE (pCi/L)	Radium 228 Activity Method GammaRay HPGE (pCi/L)	Total Radium (pCi/L)
550-229220-6	0.7 ± 0.2	3.8 ± 0.4	4.5 ± 0.4

Date of Analysis	3/14/2025 20:58	3/14/2025 20:58	3/14/2025 20:58

Robert L. Metzger, Ph.D., C.H.P. 3/19/2025 Date
Laboratory License Number AZ0462

Arizona Department of Environmental Quality

Drinking Water Radionuclides-Adjusted Gross Alpha, Radium 226 & 228, Uranium Analysis Report

Samples To Be Taken At Entry Point Into Distribution System (EPDS) Only

PWS ID#: AZ04 _____ PWS Name: _____

February 26, 2025 (Sample Date) 8:00 (Sample Time) (24 hour clock) _____ Owner/Contact Person

_____ Owner/Contact Fax Number _____ Owner/Contact Phone Number

Sample Collection Point

☐ EPDS # _____

Compliance Sample Type:

☐ Reduced Monitoring Date Q1 collected: _____

☐ Quarterly Date Q2 collected: _____

☐ Composite of four quarterly samples Date Q3 collected: _____

Date Q4 collected: _____

RADIOCHEMICAL ANALYSIS

>>>To be filled out by laboratory personnel<<<

*****Combined Uranium must be reported in micrograms per liter*****

Analysis Method	MCL	Reporting Limit	Contaminant Name	Cont. Code	Analyses Run Date	Result		Exceed MCL
Calculated	15 pCi/L		Adjusted Gross Alpha	4000				
EPA 00-02		3 pCi/L	Gross Alpha	4002				
7500 - Rn			Radon	4004				
ASTM D6239	30 µg/L	1 µg/L	Combined Uranium	4006			µg/L	
			Uranium 234	4007				
			Uranium 235	4008				
			Uranium 238	4009				
	5 pCi/L	1 pCi/L	Combined Radium (226,228)	4010	3/14/2025	4.5 ± 0.4		
GammaRay HPGE		1 pCi/L	Radium 226	4020	3/14/2025	0.7 ± 0.2		
GammaRay HPGE		1 pCi/L	Radium 228	4030	3/14/2025	3.8 ± 0.4		

LABORATORY INFORMATION

>>>To be filled out by laboratory personnel<<<

Specimen Number: RSE76511

Lab ID Number: AZ0462

Lab Name: Radiation Safety Engineering, Inc.

Printed Name and Phone Number of Laboratory Contact: Robert L. Metzger, Ph.D., C.H.P.

Comments: 550-229220-6

Authorized Signature: _____

Date Public Water System Notified: _____

DWAR 6: 11/2007

Eurofins Phoenix
4625 East Cotton Center Boulevard Suite #189
Phoenix, AZ 85040
Phone: 602-437-3340

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Johnson, Derek S	Carrier Tracking No(s): N/A	COC No: 550-41754.1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Derek.Johnson@et.eurofinsus.com	State of Origin: Arizona	Page: Page 1 of 1
Company: Radiation Safety Eng., Inc.		Accreditations Required (See note): State Program - Arizona		Job #: 550-229220-1
Address: 3245 North Washington Street, ,	Due Date Requested: 3/5/2025			Preservation Codes: -
City: Chandler	TAT Requested (days): N/A			
State, Zip: AZ, 85225				
Phone: N/A	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: Springerville - Detection and Assessment	Project #: 55011633			
Site: N/A	SSOW#: N/A			Other: N/A

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SUB (Radium 226/228)/ Radium 226/228	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
CCR-4D (550-229220-6)	2/26/25	08:00 Arizona	G	Water			X	1	76511

Analysis Requested

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Southwest, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southwest, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Southwest, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Southwest, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
LB - DCS	3-3-25 14:10		[signature]	3-3-25 14:10pm	RSE
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Eurofins Phoenix
4625 East Cotton Center Boulevard Suite #189
Phoenix, AZ 85040
Phone: 602-437-3340

229220

94880

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: C Wilms	Lab PM: Johnson, Derek S	Carrier Tracking No(s):	COC No: 550-94880-28744.1
Client Contact: Mark Nicholls	Phone:	E-Mail: Derek.Johnson@et.eurofinsus.com	State of Origin:	Page: Page 1 of 1
Company: Haley & Aldrich, Inc.	PWSID:			Job #:
Address: 400 E Van Buren St. Suite 545	Due Date Requested:			
City: Phoenix	TAT Requested (days):			
State, Zip: AZ, 85004	Compliance Project: Δ Yes Δ No			
Phone:	PO #: 149836			
Email: mnicholls@haleyaldrich.com	WO #:			
Project Name: Springerville - Detection and Assessment	Project #: 55011633			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
D - HNO3
N - None

550-229220 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)		200.7_CWA - (MOD) Boron, Calcium	2540C_Calcd, 300_ORGFMS, SM4500_H+	SUBCONTRACT - Radium 226/228	200.7_CWA, 200.8_CWA_LL, 245.1_CWA	200.7 - Lithium Only							Total Number of co	Other:	Special Instructions/Note:
			Preservation Code:		X	X	D	N	N	D	D							X		
CCR-2D	2/25/25	0840	G	Water	N	N	X	X	X	X	X						-01	3		
CCR-3D	2/25/25	1015	G	Water	N	N	X	X	X	X	X						-02	3		
~~CCR-2D~~ CCR-2D	2/25/25	1150	G	Water	N	N	D	N	N	D	D						-03	3		
CCR-2D-DUP	2/25/25	1155	G	Water	N	N	D	N	N	D	D						-04	3		
CCR-1D	2/25/25	1340	G	Water	N	N	D	N	N	D	D						-05	3		
CCR-4D	2/26/25	0800	G	Water	N	N	D	N	N	D	D						-06	5		
CCR-1U	2/26/25	0930	G	Water	N	N	D	N	N	D	D						-07	3		

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	2/26/25 1515	CEI	[signature]		
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by: [signature]	Date/Time: 2/26/25 1515	Company EETA PHX

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: TH295-1.9°C-CD0-ice

Ver: 10/10/2024

4/8/2025 (Rev. 1)

550-229220 Waybill

Custody Seal

DATE 02-27-25

SIGNATURE

ORIGIN ID:INWA (602) 437-
EUROFINS PHOENIX
EUROFINS PHOENIX
4625 E COTTON CENTER BLVD
SUITE 189
PHOENIX, AZ 85040
UNITED STATES US

SHIP DATE: 27FEB25
ACTWGT: 58.85 LB
CAD: 0875926/CAFE3855
DIMS: 25x13x14 IN

BILL RECIPIENT

TO SHIPPING/RECEIVING
EUROFINS ENVIRONMENT TESTING SOUTHW
2841 DOW AVENUE, SUITE 100

TUSTIN CA 92780

(714) 895-5494 REF: 8550-95243
PO: MES DEPT: SAMPLE RECEIVING

589C4/26DE/FE2D

FedEx Express

J243024070401uv

TRK# 0201 4156 7885 5808

FRI - 28 FEB 10:30A
PRIORITY OVERNIGHT

QZ DTHA

92780
CA-US SNA

Eurofins Phoenix
4625 East Cotton Center Boulevard Suite #189
Phoenix, AZ 85040
Phone: 602-437-3340

Chain of Custody Record

eurofins | Environment Testing

Loc: 550
229220

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Johnson, Derek S	Carrier Tracking No(s): N/A	COC No: 550-41717.1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Derek.Johnson@et.eurofinsus.com	State of Origin: Arizona	Page: Page 1 of 1
Company: Eurofins Environment Testing Southwest,		Accreditations Required (See note): State Program - Arizona		Job #: 550-229220-1
Address: 2841 Dow Avenue, Suite 100, ,	Due Date Requested: 3/11/2025			Preservation Codes: -
City: Tustin	TAT Requested (days): N/A			
State, Zip: CA, 92780				
Phone: 714-895-5494(Tel)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: Springerville - Detection and Assessment	Project #: 55011633			
Site: N/A	SSOW#: N/A			Other: N/A

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	200.7/200.7_P_TR (MOD) Custom 200.7 Metals List	200.8_LL/200.8_P_TR (MOD) 1 metals , including prep	Total Number of containers	Special Ins
			Preservation Code:							
1. CCR-2D (550-229220-1)	2/25/25	08:40 Arizona	G	Water			X	X	1	
2. CCR-3D (550-229220-2)	2/25/25	10:15 Arizona	G	Water			X	X	1	
3. CCR-2U (550-229220-3)	2/25/25	11:50 Arizona	G	Water			X	X	1	
4. CCR-2U-DUP (550-229220-4)	2/25/25	11:55 Arizona	G	Water			X	X	1	
5. CCR-1D (550-229220-5)	2/25/25	13:40 Arizona	G	Water			X	X	1	
6. CCR-4D (550-229220-6)	2/26/25	08:00 Arizona	G	Water			X	X	1	
7. CCR-1U (550-229220-7)	2/26/25	09:30 Arizona	G	Water			X	X	1	

550-229220 Chain of Custody

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Southwest, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southwest, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Southwest, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Southwest, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	2/27/25 14:2	EETA PHX	Fed Ex		
Relinquished by: FEDEX	Date/Time:	Company	Received by:	Date/Time: 2/28/25 9:50	Company EC
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 1.1/1.7 SC12

Login Sample Receipt Checklist

Client: Tucson Electric Power

Job Number: 550-229220-1

Login Number: 229220
List Number: 1
Creator: Gravlin, Andrea

List Source: Eurofins Phoenix

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	Refer to Job Narrative for details.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	False	Check done at department level as required.

This receipt checklist is generated for all samples received in this Login. It may not be applicable to all Jobs associated with this Login.

Emily Petrunia

From: Emily Petrunia
Sent: Tuesday, March 4, 2025 2:21 PM
To: Kaney, Samantha; Derek Johnson; James Thomas; Nicholls, Mark
Subject: RE: *Client Response Requested* Eurofins Environment Testing Southwest, LLC report files from 550-229220-1 Springerville - Detection and Assessment

Apologies for the confusion, the samples were logged in for the Chloride, Fluoride and Sulfate but the client listed description in our system did not reflect this, I have since updated and triple checked that the correct analytes were logged in.

I also moved all the lab data to a job-2 for the CCR-4D as you requested.

Let me know if you need anything else!

Emily Petrunia
Project Manager

Eurofins Environment Testing Southwest, LLC
4625 E. Cotton Center Blvd. • Phoenix, AZ • 85040
Main: 602-437-3340 • Direct: 602-659-7629
Email: Emily.Petrunia@ET.EurofinsUS.com
www.EurofinsUS.com/Env • LinkedIn

From: Kaney, Samantha <SKaney@haleyaldrich.com>
Sent: Monday, March 3, 2025 10:08 PM
To: Emily Petrunia <Emily.Petrunia@et.eurofinsus.com>; Derek Johnson <Derek.Johnson@et.eurofinsus.com>; James Thomas <james.thomas@tep.com>; Nicholls, Mark <MNicholls@haleyaldrich.com>
Subject: RE: *Client Response Requested* Eurofins Environment Testing Southwest, LLC report files from 550-229220-1 Springerville - Detection and Assessment

Emily,

Sulfate is not included in the updated sample acknowledgement I received. Please revise accordingly.

Additionally, I request that CCR-4D is on it's own lab report for our reporting purposes.

Thank you,

Samantha Kaney, R.G. (AZ)

Project Manager - Geologist
she/her

Haley & Aldrich, Inc.

T: (602) 760.2441
C: (815) 742.1363

www.haleyaldrich.com

From: Emily Petrunia <Emily.Petrunia@et.eurofinsus.com>
Sent: Monday, March 3, 2025 4:44 PM
To: Kaney, Samantha <SKaney@haleyaldrich.com>; Derek Johnson <Derek.Johnson@et.eurofinsus.com>; James Thomas <james.thomas@tep.com>; Nicholls, Mark <MNicholls@haleyaldrich.com>
Subject: RE: *Client Response Requested* Eurofins Environment Testing Southwest, LLC report files from 550-229220-1 Springerville - Detection and Assessment

CAUTION: External Email

Hey Samantha,

I have revised the login to reflect the attachment you provided. I will be sending over a revised sample confirmation shortly, please review it and let me know if you see any errors.

Emily Petrunia
Project Manager

Eurofins Environment Testing Southwest, LLC
4625 E. Cotton Center Blvd. • Phoenix, AZ • 85040
Main: 602-437-3340 • Direct: 602-659-7629
Email: Emily.Petrunia@ET.EurofinsUS.com
www.EurofinsUS.com/Env • LinkedIn

From: Kaney, Samantha <SKaney@haleyaldrich.com>
Sent: Friday, February 28, 2025 9:43 AM
To: Derek Johnson <Derek.Johnson@et.eurofinsus.com>; James Thomas <james.thomas@tep.com>; Nicholls, Mark <MNicholls@haleyaldrich.com>
Cc: Emily Petrunia <Emily.Petrunia@et.eurofinsus.com>
Subject: RE: *Client Response Requested* Eurofins Environment Testing Southwest, LLC report files from 550-229220-1 Springerville - Detection and Assessment

Emily,

It looks like Derek is out of the office. Can you please address the concerns below?

Samantha Kaney, R.G. (AZ)
Project Manager - Geologist
she/her

Haley & Aldrich, Inc.

T: (602) 760.2441
C: (815) 742.1363

www.haleyaldrich.com

From: Kaney, Samantha
Sent: Friday, February 28, 2025 9:01 AM
To: Derek.Johnson@et.eurofinsus.com; James Thomas <james.thomas@tep.com>; Nicholls, Mark <MNicholls@haleyaldrich.com>
Subject: RE: *Client Response Requested* Eurofins Environment Testing Southwest, LLC report files from 550-229220-1 Springerville - Detection and Assessment

Hi Derek,

The samples should be analyzed in accordance with the attached bottle order. So only CCR-4D should be analyzed for radium, lithium, and other Appx IV constituents (other than fluoride which would be analyzed for all samples).

Do I need to request an updated COC from the sampling team?

Let me know.

Thanks,

Samantha Kaney, R.G. (AZ)
Project Manager - Geologist
she/her

Haley & Aldrich, Inc.

T: (602) 760.2441
C: (815) 742.1363

www.haleyaldrich.com

From: Derek Johnson <TALS@reports.et.eurofinsus.com>
Sent: Thursday, February 27, 2025 4:16 PM
To: James Thomas <james.thomas@tep.com>; Nicholls, Mark <MNicholls@haleyaldrich.com>; Kaney, Samantha <SKaney@haleyaldrich.com>
Subject: *Client Response Requested* Eurofins Environment Testing Southwest, LLC report files from 550-229220-1 Springerville - Detection and Assessment

---

*Hello all,

The COC and samples were dropped off for the Springerville Detection and Assessment, and there was only one large unpresreved container for the radiation methods provided. It appears on the COC that all samples were to be run for this method, but only CCR-4D sample number 6 had the Subcontract volume. Was the intention for only this sample to run for Radiation, or was there intended to be more Sample volume provided? We have already sent the volume for sample 6 for testing, but wanted to be sure we were not expecting more containers to send as well.*

Attached please find the report files for job 550-229220-1; Springerville - Detection and Assessment

The samples were received on 2/26/2025 03:15 PM.

Please feel free to contact me if you have any questions.

Thank you.

Derek S Johnson
Project Manager

Eurofins Phoenix

E-mail: Derek.Johnson@et.eurofinsus.com
www.eurofinsus.com/env

Reference: [550-593726]
Attachments: 1

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: James Thomas
Tucson Electric Power
Attn: Accounts Payable
Mail Drop HQE703 PO BOX 3033
Tucson, Arizona 85702-3033

Generated 3/27/2025 1:17:01 PM

JOB DESCRIPTION

Springerville - Detection and Assessment

JOB NUMBER

550-229220-3

Eurofins Phoenix
4625 East Cotton Center Boulevard
Suite #189
Phoenix AZ 85040

See page two for job notes and contact information.

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southwest, LLC Project Manager.

Authorization

Generated
3/27/2025 1:17:01 PM

Authorized for release by
Derek Johnson, Project Manager
Derek.Johnson@et.eurofinsus.com
(602)437-3340

Table of Contents

Definitions/Glossary

Client: Tucson Electric Power
Job ID: 550-229220-3
Project/Site: Springerville - Detection and Assessment

Qualifiers

General Chemistry

Qualifier	Qualifier Description
H5	This test is specified to be performed in the field within 15 minutes of sampling; sample was received and analyzed past the regulatory holding time.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 550-229220-3 Eurofins Phoenix

Job Narrative
550-229220-3

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 2/26/2025 3:15 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.9°C.

Receipt Exceptions
The COC is requesting Appendix III and Appendix IV for all 7 sample sets received.

Client only provided sample volume for Appendix III for all 7 samples.
Sample #6 has 2 extra containers, this is the only sample that has additional sample volume for Appendix IV.

Did not login release the job, logged in Appendix III for all 7 samples, did not login Appendix IV.

CCR-2D (550-229220-1), CCR-3D (550-229220-2), CCR-2U (550-229220-3), CCR-2U-DUP (550-229220-4), CCR-1D (550-229220-5), CCR-4D (550-229220-6) and CCR-1U (550-229220-7)

General Chemistry
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Sample Summary

Client: Tucson Electric Power
Job ID: 550-229220-3
Project/Site: Springerville - Detection and Assessment

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
550-229220-4	CCR-2U-DUP	Water	02/25/25 11:55	02/26/25 15:15
550-229220-5	CCR-1D	Water	02/25/25 13:40	02/26/25 15:15
550-229220-7	CCR-1U	Water	02/26/25 09:30	02/26/25 15:15

Detection Summary

Client: Tucson Electric Power
Job ID: 550-229220-3
Project/Site: Springerville - Detection and Assessment

Client Sample ID: CCR-2U-DUP — Lab Sample ID: 550-229220-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
pH	6.6	H5	1.7	1.7	SU	1		SM 4500 H+ B	Total/NA

Client Sample ID: CCR-1D — Lab Sample ID: 550-229220-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
pH	6.9	H5	1.7	1.7	SU	1		SM 4500 H+ B	Total/NA

Client Sample ID: CCR-1U — Lab Sample ID: 550-229220-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
pH	6.8	H5	1.7	1.7	SU	1		SM 4500 H+ B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: CCR-2U-DUP
Lab Sample ID: 550-229220-4
Date Collected: 02/25/25 11:55
Matrix: Water
Date Received: 02/26/25 15:15

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SM 4500 H+ B)	6.6	H5	1.7	1.7	SU			03/26/25 16:35	1

Client Sample ID: CCR-1D
Lab Sample ID: 550-229220-5
Date Collected: 02/25/25 13:40
Matrix: Water
Date Received: 02/26/25 15:15

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SM 4500 H+ B)	6.9	H5	1.7	1.7	SU			03/26/25 16:35	1

Client Sample ID: CCR-1U
Lab Sample ID: 550-229220-7
Date Collected: 02/26/25 09:30
Matrix: Water
Date Received: 02/26/25 15:15

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SM 4500 H+ B)	6.8	H5	1.7	1.7	SU			03/26/25 16:35	1

QC Sample Results

Client: Tucson Electric Power
Job ID: 550-229220-3
Project/Site: Springerville - Detection and Assessment

Method: SM 4500 H+ B - pH

Lab Sample ID: LCSSRM 550-332251/1
Matrix: Water
Analysis Batch: 332251

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits		
pH			7.00	7.0		SU		100.2	98.5 - 101.5		

Lab Sample ID: LCSSRM 550-332251/13
Matrix: Water
Analysis Batch: 332251

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits		
pH			7.00	7.0		SU		100.4	98.5 - 101.5		

Lab Sample ID: 550-229220-4 DU
Matrix: Water
Analysis Batch: 332251

Client Sample ID: CCR-2U-DUP
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
pH	6.6	H5		6.7		SU				0.1	5

QC Association Summary

Client: Tucson Electric Power
Job ID: 550-229220-3
Project/Site: Springerville - Detection and Assessment

General Chemistry

Analysis Batch: 332251

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-229220-4	CCR-2U-DUP	Total/NA	Water	SM 4500 H+ B	
550-229220-5	CCR-1D	Total/NA	Water	SM 4500 H+ B	
550-229220-7	CCR-1U	Total/NA	Water	SM 4500 H+ B	
LCSSRM 550-332251/1	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	
LCSSRM 550-332251/13	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	
550-229220-4 DU	CCR-2U-DUP	Total/NA	Water	SM 4500 H+ B	

Lab Chronicle

Client: Tucson Electric Power
Job ID: 550-229220-3
Project/Site: Springerville - Detection and Assessment

Client Sample ID: CCR-2U-DUP
Lab Sample ID: 550-229220-4
Date Collected: 02/25/25 11:55
Matrix: Water
Date Received: 02/26/25 15:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	SM 4500 H+ B		1	332251	ALS	EET PHX	03/26/25 16:35

Client Sample ID: CCR-1D
Lab Sample ID: 550-229220-5
Date Collected: 02/25/25 13:40
Matrix: Water
Date Received: 02/26/25 15:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	SM 4500 H+ B		1	332251	ALS	EET PHX	03/26/25 16:35

Client Sample ID: CCR-1U
Lab Sample ID: 550-229220-7
Date Collected: 02/26/25 09:30
Matrix: Water
Date Received: 02/26/25 15:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	SM 4500 H+ B		1	332251	ALS	EET PHX	03/26/25 16:35

Laboratory References:

EET PHX = Eurofins Phoenix, 4625 East Cotton Center Boulevard, Suite #189, Phoenix, AZ 85040, TEL (602)437-3340

Accreditation/Certification Summary

Client: Tucson Electric Power
Job ID: 550-229220-3
Project/Site: Springerville - Detection and Assessment

Laboratory: Eurofins Phoenix

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arizona	State	AZ0728	06-10-25

Method Summary

Client: Tucson Electric Power
Job ID: 550-229220-3
Project/Site: Springerville - Detection and Assessment

Method	Method Description	Protocol	Laboratory
SM 4500 H+ B	pH	SM	EET PHX

Protocol References:

SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

EET PHX = Eurofins Phoenix, 4625 East Cotton Center Boulevard, Suite #189, Phoenix, AZ 85040, TEL (602)437-3340

Login Sample Receipt Checklist

Client: Tucson Electric Power

Job Number: 550-229220-3

Login Number: 229220
List Number: 1
Creator: Gravlin, Andrea

List Source: Eurofins Phoenix

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	Refer to Job Narrative for details.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	False	Check done at department level as required.

This receipt checklist is generated for all samples received in this Login. It may not be applicable to all Jobs associated with this Login.

Derek Johnson

From: Kaney, Samantha <SKaney@haleyaldrich.com>
Sent: Monday, March 24, 2025 7:19 PM
To: Derek Johnson
Cc: James Thomas; Nicholls, Mark
Subject: RE: Eurofins Environment Testing Southwest, LLC report files from 550-229220-1 Springerville - Detection and Assessment

Derek,

Can you please have the lab reanalyze the following results on a quick turn please?

- CCR-1D:
  - pH
- CCR-1U
  - pH
- CCR-2U-DUP
  - pH

Thank you,

Samantha Kaney, R.G. (AZ)
Project Manager - Geologist
she/her

Haley & Aldrich, Inc.

T: (602) 760.2441
C: (815) 742.1363

www.haleyaldrich.com

From: Derek Johnson <TALS@reports.et.eurofinsus.com>
Sent: Wednesday, March 19, 2025 7:36 PM
To: James Thomas <james.thomas@tep.com>; Nicholls, Mark <MNicholls@haleyaldrich.com>; Kaney, Samantha <SKaney@haleyaldrich.com>
Subject: Eurofins Environment Testing Southwest, LLC report files from 550-229220-1 Springerville - Detection and Assessment

---

Hello,

Attached please find the report files for job 550-229220-1; Springerville - Detection and Assessment

The samples were received on 2/26/2025 03:15 PM.

Please feel free to contact me if you have any questions.

Thank you.

Derek S Johnson
Project Manager

Eurofins Phoenix

E-mail: Derek.Johnson@et.eurofinsus.com
www.eurofinsus.com/env

Reference: [550-596159]
Attachments: 3

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

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: James Thomas
Tucson Electric Power
Attn: Accounts Payable
Mail Drop HQE703 PO BOX 3033
Tucson, Arizona 85702-3033

Generated 10/1/2025 1:17:12 PM Revision 1

JOB DESCRIPTION

Springerville - Detection and Assessment

JOB NUMBER

550-235331-1

Eurofins Phoenix
4625 East Cotton Center Boulevard
Suite #189
Phoenix AZ 85040

See page two for job notes and contact information.

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southwest, LLC Project Manager.

Authorization

Generated
10/1/2025 1:17:12 PM
Revision 1

Authorized for release by
Derek Johnson, Project Manager
Derek.Johnson@et.eurofinsus.com
(602)437-3340

Table of Contents

Definitions/Glossary

Client: Tucson Electric Power
Job ID: 550-235331-1
Project/Site: Springerville - Detection and Assessment

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
D2	Sample required dilution due to high concentration of analyte.
E2	Concentration estimated. Analyte exceeded calibration range. Reanalysis not performed due to sample matrix.
E4	Concentration estimated. Analyte was detected below laboratory minimum reporting level (MRL) but above MDL.
E8	Analyte reported to MDL per project specification. Target analyte was not detected in the sample.
M2	Matrix spike recovery was low, the associated blank spike recovery was acceptable.
M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The associated blank spike was acceptable.

Metals

Qualifier	Qualifier Description
E4	Concentration estimated. Analyte was detected below laboratory minimum reporting level (MRL) but above MDL.
E8	Analyte reported to MDL per project specification. Target analyte was not detected in the sample.
M1	Matrix spike recovery was high, the associated blank spike recovery was acceptable.
M2	Matrix spike recovery was low, the associated blank spike recovery was acceptable.
M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The associated blank spike was acceptable.
V1	CCV recovery was above method acceptance limits. This target analyte was not detected in the sample.

General Chemistry

Qualifier	Qualifier Description
E8	Analyte reported to MDL per project specification. Target analyte was not detected in the sample.
H5	This test is specified to be performed in the field within 15 minutes of sampling; sample was received and analyzed past the regulatory holding time.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job Narrative
550-235331-1

REVISION

The report being provided is a revision of the original report sent on 9/16/2025. The report (revision 1) is being revised due to Client needs removal of unneccessary analytes.

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt
The samples were received on 8/20/2025 3:53 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.2°C.

Subcontract Work
Method Radium 226/228: This method was subcontracted to Radiation Safety Eng., Inc. The subcontract laboratory certification is different from that of the facility issuing the final report. The subcontract report is appended in its entirety.

HPLC/IC
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals
Method 200.8_LL - Total Recoverable: The matrix spike duplicate (MSD) recoveries for preparation batch 570-616858 and analytical batch 570-617272 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 200.8_LL - Total Recoverable: The method blank for preparation batch 570-616858 and analytical batch 570-617635 contained Chromium above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 200.8_LL - Total Recoverable: The continuing calibration verification (CCV) associated with batch 570-617635 recovered above the upper control limit for Beryllium. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 200.8_LL - Total Recoverable: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 570-616858 and analytical batch 570-617635 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 200.8_LL - Total Recoverable: The following sample was diluted due to the nature of the sample matrix: CCR-4D (550-235331-6). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry
Method 2540C_Calcd: The following samples were diluted due to the nature of the sample matrix: CCR -2D (550-235331-1), CCR-3D (550-235331-2), CCR-1D (550-235331-3), CCR1U (550-235331-4), CCR-2U (550-235331-5), CCR-4D (550-235331-6),

Job ID: 550-235331-1 (Continued) Eurofins Phoenix

CCR-2U-DUP (550-235331-7) and (550-235331-A-1 DU). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Sample Summary

Client: Tucson Electric Power
Job ID: 550-235331-1
Project/Site: Springerville - Detection and Assessment

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
550-235331-1	CCR -2D	Water	08/19/25 07:50	08/20/25 15:53	Arizona
550-235331-2	CCR-3D	Water	08/19/25 09:35	08/20/25 15:53	Arizona
550-235331-3	CCR-1D	Water	08/19/25 15:45	08/20/25 15:53	Arizona
550-235331-4	CCR1U	Water	08/19/25 17:20	08/20/25 15:53	Arizona
550-235331-5	CCR-2U	Water	08/19/25 09:00	08/20/25 15:53	Arizona
550-235331-6	CCR-4D	Water	08/19/25 10:20	08/20/25 15:53	Arizona
550-235331-7	CCR-2U-DUP	Water	08/19/25 09:05	08/20/25 15:53	Arizona

Detection Summary

Client: Tucson Electric Power
Project/Site: Springerville - Detection and Assessment

Job ID: 550-235331-1

Client Sample ID: CCR -2D — Lab Sample ID: 550-235331-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	2.7		0.40	0.11	mg/L	1		300.0	Total/NA
Chloride	500	D2	20	11	mg/L	10		300.0	Total/NA
Sulfate	1700	D2	20	4.3	mg/L	10		300.0	Total/NA
Boron	0.93	M2	0.050	0.0094	mg/L	1		200.7 Rev 4.4	Total/NA
Calcium	620	M3	2.0	0.068	mg/L	1		200.7 Rev 4.4	Total/NA
Total Dissolved Solids	4100		40	40	mg/L	1		SM 2540C	Total/NA
pH	6.8	H5	1.7	1.7	SU	1		SM 4500 H+ B	Total/NA

Client Sample ID: CCR-3D — Lab Sample ID: 550-235331-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	3.2		0.40	0.11	mg/L	1		300.0	Total/NA
Chloride	500	D2	20	11	mg/L	10		300.0	Total/NA
Sulfate	1300	D2	20	4.3	mg/L	10		300.0	Total/NA
Boron	0.94		0.050	0.0094	mg/L	1		200.7 Rev 4.4	Total/NA
Calcium	460		2.0	0.068	mg/L	1		200.7 Rev 4.4	Total/NA
Total Dissolved Solids	3300		40	40	mg/L	1		SM 2540C	Total/NA
pH	6.7	H5	1.7	1.7	SU	1		SM 4500 H+ B	Total/NA

Client Sample ID: CCR-1D — Lab Sample ID: 550-235331-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	2.9		0.40	0.11	mg/L	1		300.0	Total/NA
Chloride	480	D2	20	11	mg/L	10		300.0	Total/NA
Sulfate	1300	D2	20	4.3	mg/L	10		300.0	Total/NA
Boron	0.82		0.050	0.0094	mg/L	1		200.7 Rev 4.4	Total/NA
Calcium	460		2.0	0.068	mg/L	1		200.7 Rev 4.4	Total/NA
Total Dissolved Solids	3200		40	40	mg/L	1		SM 2540C	Total/NA
pH	6.8	H5	1.7	1.7	SU	1		SM 4500 H+ B	Total/NA

Client Sample ID: CCR1U — Lab Sample ID: 550-235331-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	3.2		0.40	0.11	mg/L	1		300.0	Total/NA
Chloride	560	D2	20	11	mg/L	10		300.0	Total/NA
Sulfate	2400	D2	100	21	mg/L	50		300.0	Total/NA
Boron	1.4		0.050	0.0094	mg/L	1		200.7 Rev 4.4	Total/NA
Calcium	820		2.0	0.068	mg/L	1		200.7 Rev 4.4	Total/NA
Total Dissolved Solids	5100		100	100	mg/L	1		SM 2540C	Total/NA
pH	7.0	H5	1.7	1.7	SU	1		SM 4500 H+ B	Total/NA

Client Sample ID: CCR-2U — Lab Sample ID: 550-235331-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	2.5		0.40	0.11	mg/L	1		300.0	Total/NA
Chloride	420	D2	20	11	mg/L	10		300.0	Total/NA
Sulfate	1800	D2	20	4.3	mg/L	10		300.0	Total/NA
Boron	1.3		0.050	0.0094	mg/L	1		200.7 Rev 4.4	Total/NA
Calcium	770		2.0	0.068	mg/L	1		200.7 Rev 4.4	Total/NA
Total Dissolved Solids	4100		40	40	mg/L	1		SM 2540C	Total/NA
pH	6.6	H5	1.7	1.7	SU	1		SM 4500 H+ B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Tucson Electric Power
Job ID: 550-235331-1
Project/Site: Springerville - Detection and Assessment

Client Sample ID: CCR-4D — Lab Sample ID: 550-235331-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	0.32	E4	0.40	0.11	mg/L	1		300.0	Total/NA
Chloride	3400	D2	100	56	mg/L	50		300.0	Total/NA
Sulfate	2700	D2	100	21	mg/L	50		300.0	Total/NA
Boron	1.3		0.050	0.0094	mg/L	1		200.7 Rev 4.4	Total/NA
Calcium	680		2.0	0.068	mg/L	1		200.7 Rev 4.4	Total/NA
Total Dissolved Solids	10000		100	100	mg/L	1		SM 2540C	Total/NA
pH	7.2	H5	1.7	1.7	SU	1		SM 4500 H+ B	Total/NA

Client Sample ID: CCR-2U-DUP — Lab Sample ID: 550-235331-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	2.5		0.40	0.11	mg/L	1		300.0	Total/NA
Chloride	420	D2	20	11	mg/L	10		300.0	Total/NA
Sulfate	1800	D2	20	4.3	mg/L	10		300.0	Total/NA
Boron	1.2		0.050	0.0094	mg/L	1		200.7 Rev 4.4	Total/NA
Calcium	660		2.0	0.068	mg/L	1		200.7 Rev 4.4	Total/NA
Total Dissolved Solids	4100		40	40	mg/L	1		SM 2540C	Total/NA
pH	7.9	H5	1.7	1.7	SU	1		SM 4500 H+ B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: CCR -2D
Lab Sample ID: 550-235331-1
Date Collected: 08/19/25 07:50
Matrix: Water
Date Received: 08/20/25 15:53

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	2.7		0.40	0.11	mg/L			08/20/25 18:46	1
Chloride	500	D2	20	11	mg/L			08/20/25 18:56	10
Sulfate	1700	D2	20	4.3	mg/L			08/20/25 18:56	10

Method: EPA 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.93	M2	0.050	0.0094	mg/L		08/25/25 12:42	09/11/25 22:04	1
Calcium	620	M3	2.0	0.068	mg/L		08/25/25 12:42	09/08/25 14:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	4100		40	40	mg/L			08/25/25 13:33	1
pH (SM 4500 H+ B)	6.8	H5	1.7	1.7	SU			08/23/25 12:27	1

Client Sample ID: CCR-3D
Lab Sample ID: 550-235331-2
Date Collected: 08/19/25 09:35
Matrix: Water
Date Received: 08/20/25 15:53

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	3.2		0.40	0.11	mg/L			08/20/25 19:06	1
Chloride	500	D2	20	11	mg/L			08/20/25 19:17	10
Sulfate	1300	D2	20	4.3	mg/L			08/20/25 19:17	10

Method: EPA 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.94		0.050	0.0094	mg/L		08/25/25 12:42	09/11/25 22:08	1
Calcium	460		2.0	0.068	mg/L		08/25/25 12:42	09/08/25 14:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	3300		40	40	mg/L			08/25/25 13:33	1
pH (SM 4500 H+ B)	6.7	H5	1.7	1.7	SU			08/23/25 12:27	1

Client Sample ID: CCR-1D
Lab Sample ID: 550-235331-3
Date Collected: 08/19/25 15:45
Matrix: Water
Date Received: 08/20/25 15:53

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	2.9		0.40	0.11	mg/L			08/20/25 19:27	1
Chloride	480	D2	20	11	mg/L			08/20/25 19:37	10
Sulfate	1300	D2	20	4.3	mg/L			08/20/25 19:37	10

Method: EPA 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.82		0.050	0.0094	mg/L		08/25/25 12:42	09/11/25 22:11	1
Calcium	460		2.0	0.068	mg/L		08/25/25 12:42	09/08/25 15:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	3200		40	40	mg/L			08/25/25 13:33	1

Client Sample ID: CCR-1D
Lab Sample ID: 550-235331-3
Date Collected: 08/19/25 15:45
Matrix: Water
Date Received: 08/20/25 15:53

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SM 4500 H+ B)	6.8	H5	1.7	1.7	SU			08/23/25 12:27	1

Client Sample ID: CCR1U
Lab Sample ID: 550-235331-4
Date Collected: 08/19/25 17:20
Matrix: Water
Date Received: 08/20/25 15:53

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	3.2		0.40	0.11	mg/L			08/20/25 20:17	1
Chloride	560	D2	20	11	mg/L			08/20/25 20:27	10
Sulfate	2400	D2	100	21	mg/L			08/21/25 15:56	50

Method: EPA 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1.4		0.050	0.0094	mg/L		08/25/25 12:42	09/11/25 22:14	1
Calcium	820		2.0	0.068	mg/L		08/25/25 12:42	09/08/25 15:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	5100		100	100	mg/L			08/25/25 13:33	1
pH (SM 4500 H+ B)	7.0	H5	1.7	1.7	SU			08/23/25 12:27	1

Client Sample ID: CCR-2U
Lab Sample ID: 550-235331-5
Date Collected: 08/19/25 09:00
Matrix: Water
Date Received: 08/20/25 15:53

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	2.5		0.40	0.11	mg/L			08/20/25 20:37	1
Chloride	420	D2	20	11	mg/L			08/20/25 20:47	10
Sulfate	1800	D2	20	4.3	mg/L			08/20/25 20:47	10

Method: EPA 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1.3		0.050	0.0094	mg/L		08/25/25 12:42	09/11/25 22:18	1
Calcium	770		2.0	0.068	mg/L		08/25/25 12:42	09/08/25 15:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	4100		40	40	mg/L			08/25/25 13:33	1
pH (SM 4500 H+ B)	6.6	H5	1.7	1.7	SU			08/23/25 12:27	1

Client Sample ID: CCR-4D
Lab Sample ID: 550-235331-6
Date Collected: 08/19/25 10:20
Matrix: Water
Date Received: 08/20/25 15:53

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.32	E4	0.40	0.11	mg/L			08/20/25 20:57	1
Chloride	3400	D2	100	56	mg/L			08/21/25 17:20	50
Sulfate	2700	D2	100	21	mg/L			08/21/25 17:20	50

Client Sample ID: CCR-4D
Lab Sample ID: 550-235331-6
Date Collected: 08/19/25 10:20
Matrix: Water
Date Received: 08/20/25 15:53

Method: EPA 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	ND	E8	0.0010	0.00073	mg/L		08/25/25 12:42	09/08/25 15:12	1
Boron	**1.3**		0.050	0.0094	mg/L		08/25/25 12:42	09/11/25 22:21	1
Calcium	**680**		2.0	0.068	mg/L		08/25/25 12:42	09/08/25 15:12	1

Method: EPA 200.8 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND	E8	0.0050	0.0025	mg/L		08/26/25 09:01	08/27/25 11:32	5
Arsenic	ND	E8 M1	0.0010	0.00042	mg/L		08/26/25 09:01	08/26/25 17:41	5
Cadmium	ND	E8	0.0010	0.00022	mg/L		08/26/25 09:01	08/27/25 11:32	5
Beryllium	ND	E8	2.5	1.1	ug/L		08/26/25 09:01	08/27/25 11:32	5
Chromium	ND	E8	0.0050	0.00062	mg/L		08/26/25 09:01	08/27/25 11:32	5
Lead	ND	E8	0.0010	0.00060	mg/L		08/26/25 09:01	08/27/25 11:32	5
Thallium	ND	E8	0.0010	0.00041	mg/L		08/26/25 09:01	08/27/25 11:32	5

Method: EPA 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND	E8	0.00020	0.000070	mg/L		08/27/25 15:30	08/28/25 13:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**10000**		100	100	mg/L			08/25/25 13:33	1
pH (SM 4500 H+ B)	**7.2**	**H5**	1.7	1.7	SU			08/23/25 12:27	1

Client Sample ID: CCR-2U-DUP
Lab Sample ID: 550-235331-7
Date Collected: 08/19/25 09:05
Matrix: Water
Date Received: 08/20/25 15:53

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	**2.5**		0.40	0.11	mg/L			08/20/25 21:17	1
Chloride	**420**	**D2**	20	11	mg/L			08/20/25 21:28	10
Sulfate	**1800**	**D2**	20	4.3	mg/L			08/20/25 21:28	10

Method: EPA 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	**1.2**		0.050	0.0094	mg/L		08/25/25 12:42	09/11/25 22:25	1
Calcium	**660**		2.0	0.068	mg/L		08/25/25 12:42	09/08/25 15:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**4100**		40	40	mg/L			08/25/25 13:33	1
pH (SM 4500 H+ B)	**7.9**	**H5**	1.7	1.7	SU			08/23/25 12:27	1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 550-337144/2
Matrix: Water
Analysis Batch: 337144

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND	E8	0.40	0.11	mg/L			08/20/25 14:39	1
Chloride	ND	E8	2.0	1.1	mg/L			08/20/25 14:39	1
Sulfate	ND	E8	2.0	0.43	mg/L			08/20/25 14:39	1

Lab Sample ID: LCS 550-337144/5
Matrix: Water
Analysis Batch: 337144

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	4.00	4.19		mg/L		105	90 - 110
Chloride	20.0	20.4		mg/L		102	90 - 110
Sulfate	20.0	20.2		mg/L		101	90 - 110

Lab Sample ID: LCSD 550-337144/6
Matrix: Water
Analysis Batch: 337144

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoride	4.00	4.19		mg/L		105	90 - 110	0	20
Chloride	20.0	20.4		mg/L		102	90 - 110	0	20
Sulfate	20.0	20.2		mg/L		101	90 - 110	0	20

Lab Sample ID: 550-235276-B-1 MS
Matrix: Water
Analysis Batch: 337144

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	1.7		4.00	5.48		mg/L		94	80 - 120
Chloride	2100	E2 M3	20.0	1940	E2 M3	mg/L		-575	80 - 120
Sulfate	NQ	E2 M2	20.0	NQ	E2 M2	mg/L		0	80 - 120

Lab Sample ID: 550-235276-B-1 MSD
Matrix: Water
Analysis Batch: 337144

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoride	1.7		4.00	5.54		mg/L		96	80 - 120	1	20
Chloride	2100	E2 M3	20.0	1960	E2 M3	mg/L		-440	80 - 120	1	20
Sulfate	NQ	E2 M2	20.0	NQ	E2 M2	mg/L		0	80 - 120	NC	20

Lab Sample ID: MB 550-337191/2
Matrix: Water
Analysis Batch: 337191

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND	E8	0.40	0.11	mg/L			08/21/25 13:37	1
Chloride	ND	E8	2.0	1.1	mg/L			08/21/25 13:37	1
Sulfate	ND	E8	2.0	0.43	mg/L			08/21/25 13:37	1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 550-337191/5
Matrix: Water
Analysis Batch: 337191

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Fluoride			4.00	4.17		mg/L		104	90 - 110		
Chloride			20.0	20.7		mg/L		103	90 - 110		
Sulfate			20.0	20.4		mg/L		102	90 - 110		

Lab Sample ID: LCSD 550-337191/6
Matrix: Water
Analysis Batch: 337191

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoride			4.00	4.15		mg/L		104	90 - 110	1	20
Chloride			20.0	20.7		mg/L		103	90 - 110	0	20
Sulfate			20.0	20.3		mg/L		102	90 - 110	0	20

Lab Sample ID: 550-235331-4 MS
Matrix: Water
Analysis Batch: 337191

Client Sample ID: CCR1U
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Fluoride	ND	E8	200	217		mg/L		109	80 - 120		
Chloride	550		1000	1700		mg/L		115	80 - 120		
Sulfate	2400	D2	1000	3470		mg/L		107	80 - 120		

Lab Sample ID: 550-235331-4 MSD
Matrix: Water
Analysis Batch: 337191

Client Sample ID: CCR1U
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoride	ND	E8	200	217		mg/L		109	80 - 120	0	20
Chloride	550		1000	1700		mg/L		115	80 - 120	0	20
Sulfate	2400	D2	1000	3470		mg/L		107	80 - 120	0	20

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 550-337302/1-A
Matrix: Water
Analysis Batch: 337642

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 337302

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	ND	E8	0.0010	0.00073	mg/L		08/25/25 12:42	09/08/25 14:39	1
Calcium	ND	E8	2.0	0.068	mg/L		08/25/25 12:42	09/08/25 14:39	1

Lab Sample ID: MB 550-337302/1-A
Matrix: Water
Analysis Batch: 337752

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 337302

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	ND	E8	0.050	0.0094	mg/L		08/25/25 12:42	09/11/25 21:54	1
Calcium	ND	E8	2.0	0.068	mg/L		08/25/25 12:42	09/11/25 21:54	1

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Lab Sample ID: LCS 550-337302/2-A
Matrix: Water
Analysis Batch: 337642

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 337302

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	1.00	0.990		mg/L		99	85 - 115
Calcium	21.0	21.0		mg/L		100	85 - 115

Lab Sample ID: LCS 550-337302/2-A
Matrix: Water
Analysis Batch: 337752

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 337302

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	1.00	1.07		mg/L		107	85 - 115
Calcium	21.0	22.5		mg/L		107	85 - 115

Lab Sample ID: LCSD 550-337302/3-A
Matrix: Water
Analysis Batch: 337642

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 337302

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Beryllium	1.00	1.00		mg/L		100	85 - 115	2	20
Calcium	21.0	21.3		mg/L		101	85 - 115	1	20

Lab Sample ID: LCSD 550-337302/3-A
Matrix: Water
Analysis Batch: 337752

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 337302

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron	1.00	1.08		mg/L		108	85 - 115	1	20
Calcium	21.0	22.8		mg/L		108	85 - 115	1	20

Lab Sample ID: 550-235331-1 MS
Matrix: Water
Analysis Batch: 337642

Client Sample ID: CCR -2D
Prep Type: Total/NA
Prep Batch: 337302

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	0.00079	E4	1.00	1.05		mg/L		104	70 - 130
Calcium	620	M3	21.0	621	M3	mg/L		-2	70 - 130

Lab Sample ID: 550-235331-1 MSD
Matrix: Water
Analysis Batch: 337642

Client Sample ID: CCR -2D
Prep Type: Total/NA
Prep Batch: 337302

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Beryllium	0.00079	E4	1.00	1.04		mg/L		104	70 - 130	0	20
Calcium	620	M3	21.0	625	M3	mg/L		15	70 - 130	1	20

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 570-616858/1-A
Matrix: Water
Analysis Batch: 617272

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 616858

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	E8	0.00020	0.000083	mg/L		08/26/25 09:01	08/26/25 17:17	1

Lab Sample ID: MB 570-616858/1-A
Matrix: Water
Analysis Batch: 617635

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 616858

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND	E8	0.0010	0.00051	mg/L		08/26/25 09:01	08/27/25 10:07	1
Cadmium	ND	E8	0.00020	0.000044	mg/L		08/26/25 09:01	08/27/25 10:07	1
Beryllium	ND	E8 V1	0.50	0.22	ug/L		08/26/25 09:01	08/27/25 10:07	1
Chromium	0.000412	E4	0.0010	0.00012	mg/L		08/26/25 09:01	08/27/25 10:07	1
Lead	ND	E8	0.00020	0.00012	mg/L		08/26/25 09:01	08/27/25 10:07	1
Thallium	ND	E8	0.00020	0.000081	mg/L		08/26/25 09:01	08/27/25 10:07	1

Lab Sample ID: LCS 570-616858/2-A
Matrix: Water
Analysis Batch: 617272

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 616858

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.0800	0.0803		mg/L		100	85 - 115

Lab Sample ID: LCS 570-616858/2-A
Matrix: Water
Analysis Batch: 617635

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 616858

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.0800	0.0785		mg/L		98	85 - 115
Barium	0.0800	0.0798		mg/L		100	85 - 115
Cadmium	0.0800	0.0802		mg/L		100	85 - 115
Beryllium	80.0	80.7	V1	ug/L		101	85 - 115
Chromium	0.0800	0.0809		mg/L		101	85 - 115
Cobalt	0.0800	0.0775		mg/L		97	85 - 115
Lead	0.0800	0.0807		mg/L		101	85 - 115
Molybdenum	0.0800	0.0761		mg/L		95	85 - 115
Selenium	0.0800	0.0829		mg/L		104	85 - 115
Thallium	0.0800	0.0815		mg/L		102	85 - 115

Lab Sample ID: LCSD 570-616858/3-A
Matrix: Water
Analysis Batch: 617272

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 616858

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	0.0800	0.0808		mg/L		101	85 - 115	1	20

Lab Sample ID: LCSD 570-616858/3-A
Matrix: Water
Analysis Batch: 617635

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 616858

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	0.0800	0.0832		mg/L		104	85 - 115	6	20

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: LCSD 570-616858/3-A
Matrix: Water
Analysis Batch: 617635

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 616858

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Barium			0.0800	0.0823		mg/L		103	85 - 115	3	20
Cadmium			0.0800	0.0832		mg/L		104	85 - 115	4	20
Beryllium			80.0	81.0	V1	ug/L		101	85 - 115	0	20
Chromium			0.0800	0.0816		mg/L		102	85 - 115	1	20
Cobalt			0.0800	0.0788		mg/L		99	85 - 115	2	20
Lead			0.0800	0.0824		mg/L		103	85 - 115	2	20
Molybdenum			0.0800	0.0816		mg/L		102	85 - 115	7	20
Selenium			0.0800	0.0834		mg/L		104	85 - 115	1	20
Thallium			0.0800	0.0827		mg/L		103	85 - 115	1	20

Lab Sample ID: 550-235331-6 MS
Matrix: Water
Analysis Batch: 617272

Client Sample ID: CCR-4D
Prep Type: Total Recoverable
Prep Batch: 616858

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	ND	E8 M1	0.0800	0.102	M1	mg/L		127	80 - 120

Lab Sample ID: 550-235331-6 MS
Matrix: Water
Analysis Batch: 617635

Client Sample ID: CCR-4D
Prep Type: Total Recoverable
Prep Batch: 616858

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	ND	E8	0.0800	0.0870		mg/L		109	80 - 120
Barium	0.0095		0.0800	0.0876		mg/L		98	80 - 120
Cadmium	ND	E8	0.0800	0.0691		mg/L		86	80 - 120
Beryllium	ND	E8	80.0	65.5	V1	ug/L		82	80 - 120
Chromium	ND	E8	0.0800	0.0749		mg/L		94	80 - 120
Cobalt	0.00027	E4	0.0800	0.0688		mg/L		86	80 - 120
Lead	ND	E8	0.0800	0.0670		mg/L		84	80 - 120
Molybdenum	0.0089		0.0800	0.0906		mg/L		102	80 - 120
Selenium	0.023		0.0800	0.0958		mg/L		92	80 - 120
Thallium	ND	E8	0.0800	0.0634	M2	mg/L		79	80 - 120

Lab Sample ID: 550-235331-6 MSD
Matrix: Water
Analysis Batch: 617272

Client Sample ID: CCR-4D
Prep Type: Total Recoverable
Prep Batch: 616858

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	ND	E8 M1	0.0800	0.109	M1	mg/L		136	80 - 120	6	20

Lab Sample ID: 550-235331-6 MSD
Matrix: Water
Analysis Batch: 617635

Client Sample ID: CCR-4D
Prep Type: Total Recoverable
Prep Batch: 616858

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	ND	E8	0.0800	0.0886		mg/L		111	80 - 120	2	20
Barium	0.0095		0.0800	0.0917		mg/L		103	80 - 120	5	20
Cadmium	ND	E8	0.0800	0.0719		mg/L		90	80 - 120	4	20
Beryllium	ND	E8	80.0	70.5	V1	ug/L		88	80 - 120	7	20
Chromium	ND	E8	0.0800	0.0770		mg/L		96	80 - 120	3	20

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: 550-235331-6 MSD
Matrix: Water
Analysis Batch: 617635

Client Sample ID: CCR-4D
Prep Type: Total Recoverable
Prep Batch: 616858

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cobalt	0.00027	E4	0.0800	0.0706		mg/L		88	80 - 120	2	20
Lead	ND	E8	0.0800	0.0682		mg/L		85	80 - 120	2	20
Molybdenum	0.0089		0.0800	0.0931		mg/L		105	80 - 120	3	20
Selenium	0.023		0.0800	0.0999		mg/L		97	80 - 120	4	20
Thallium	ND	E8	0.0800	0.0653		mg/L		82	80 - 120	3	20

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 550-337369/1-A
Matrix: Water
Analysis Batch: 337417

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 337369

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND	E8	0.00020	0.000070	mg/L		08/27/25 15:30	08/28/25 13:38	1

Lab Sample ID: LCS 550-337369/2-A
Matrix: Water
Analysis Batch: 337417

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 337369

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00500	0.00506		mg/L		101	85 - 115

Lab Sample ID: LCSD 550-337369/3-A
Matrix: Water
Analysis Batch: 337417

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 337369

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.00500	0.00507		mg/L		101	85 - 115	0	20

Lab Sample ID: 380-167366-C-1-B MS
Matrix: Water
Analysis Batch: 337417

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 337369

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	ND	E8	0.00500	0.00577		mg/L		115	70 - 130

Lab Sample ID: 380-167366-C-1-C MSD
Matrix: Water
Analysis Batch: 337417

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 337369

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	ND	E8	0.00500	0.00579		mg/L		116	70 - 130	0	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 550-337305/1
Matrix: Water
Analysis Batch: 337305

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND	E8	20	20	mg/L			08/25/25 13:33	1

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: LCS 550-337305/2
Matrix: Water
Analysis Batch: 337305

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids			1000	992		mg/L		99	90 - 110		

Lab Sample ID: LCSD 550-337305/3
Matrix: Water
Analysis Batch: 337305

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids			1000	996		mg/L		100	90 - 110	0	10

Lab Sample ID: 550-235331-1 DU
Matrix: Water
Analysis Batch: 337305

Client Sample ID: CCR -2D
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	4100			4040		mg/L				0.6	10

Method: SM 4500 H+ B - pH

Lab Sample ID: LCSSRM 550-337273/1
Matrix: Water
Analysis Batch: 337273

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits		
pH			7.00	7.0		SU		100.4	98.5 - 101.5		

Lab Sample ID: LCSSRM 550-337273/13
Matrix: Water
Analysis Batch: 337273

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits		
pH			7.00	7.0		SU		100.7	98.5 - 101.5		

Lab Sample ID: 550-235331-6 DU
Matrix: Water
Analysis Batch: 337273

Client Sample ID: CCR-4D
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
pH	7.2	H5		7.3		SU				0.8	5

HPLC/IC

Analysis Batch: 337144

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-235331-1	CCR -2D	Total/NA	Water	300.0	
550-235331-1	CCR -2D	Total/NA	Water	300.0	
550-235331-2	CCR-3D	Total/NA	Water	300.0	
550-235331-2	CCR-3D	Total/NA	Water	300.0	
550-235331-3	CCR-1D	Total/NA	Water	300.0	
550-235331-3	CCR-1D	Total/NA	Water	300.0	
550-235331-4	CCR1U	Total/NA	Water	300.0	
550-235331-4	CCR1U	Total/NA	Water	300.0	
550-235331-5	CCR-2U	Total/NA	Water	300.0	
550-235331-5	CCR-2U	Total/NA	Water	300.0	
550-235331-6	CCR-4D	Total/NA	Water	300.0	
550-235331-7	CCR-2U-DUP	Total/NA	Water	300.0	
550-235331-7	CCR-2U-DUP	Total/NA	Water	300.0	
MB 550-337144/2	Method Blank	Total/NA	Water	300.0	
LCS 550-337144/5	Lab Control Sample	Total/NA	Water	300.0	
LCSD 550-337144/6	Lab Control Sample Dup	Total/NA	Water	300.0	
550-235276-B-1 MS	Matrix Spike	Total/NA	Water	300.0	
550-235276-B-1 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	

Analysis Batch: 337191

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-235331-4	CCR1U	Total/NA	Water	300.0	
550-235331-6	CCR-4D	Total/NA	Water	300.0	
MB 550-337191/2	Method Blank	Total/NA	Water	300.0	
LCS 550-337191/5	Lab Control Sample	Total/NA	Water	300.0	
LCSD 550-337191/6	Lab Control Sample Dup	Total/NA	Water	300.0	
550-235331-4 MS	CCR1U	Total/NA	Water	300.0	
550-235331-4 MSD	CCR1U	Total/NA	Water	300.0	

Metals

Prep Batch: 337302

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-235331-1	CCR -2D	Total/NA	Water	200.7	
550-235331-2	CCR-3D	Total/NA	Water	200.7	
550-235331-3	CCR-1D	Total/NA	Water	200.7	
550-235331-4	CCR1U	Total/NA	Water	200.7	
550-235331-5	CCR-2U	Total/NA	Water	200.7	
550-235331-6	CCR-4D	Total/NA	Water	200.7	
550-235331-7	CCR-2U-DUP	Total/NA	Water	200.7	
MB 550-337302/1-A	Method Blank	Total/NA	Water	200.7	
LCS 550-337302/2-A	Lab Control Sample	Total/NA	Water	200.7	
LCSD 550-337302/3-A	Lab Control Sample Dup	Total/NA	Water	200.7	
550-235331-1 MS	CCR -2D	Total/NA	Water	200.7	
550-235331-1 MSD	CCR -2D	Total/NA	Water	200.7	

Prep Batch: 337369

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-235331-6	CCR-4D	Total/NA	Water	245.1	
MB 550-337369/1-A	Method Blank	Total/NA	Water	245.1	
LCS 550-337369/2-A	Lab Control Sample	Total/NA	Water	245.1	

Metals (Continued)

Prep Batch: 337369 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 550-337369/3-A	Lab Control Sample Dup	Total/NA	Water	245.1	
380-167366-C-1-B MS	Matrix Spike	Total/NA	Water	245.1	
380-167366-C-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	245.1	

Analysis Batch: 337417

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-235331-6	CCR-4D	Total/NA	Water	245.1	337369
MB 550-337369/1-A	Method Blank	Total/NA	Water	245.1	337369
LCS 550-337369/2-A	Lab Control Sample	Total/NA	Water	245.1	337369
LCSD 550-337369/3-A	Lab Control Sample Dup	Total/NA	Water	245.1	337369
380-167366-C-1-B MS	Matrix Spike	Total/NA	Water	245.1	337369
380-167366-C-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	245.1	337369

Analysis Batch: 337642

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-235331-1	CCR -2D	Total/NA	Water	200.7 Rev 4.4	337302
550-235331-2	CCR-3D	Total/NA	Water	200.7 Rev 4.4	337302
550-235331-3	CCR-1D	Total/NA	Water	200.7 Rev 4.4	337302
550-235331-4	CCR1U	Total/NA	Water	200.7 Rev 4.4	337302
550-235331-5	CCR-2U	Total/NA	Water	200.7 Rev 4.4	337302
550-235331-6	CCR-4D	Total/NA	Water	200.7 Rev 4.4	337302
550-235331-7	CCR-2U-DUP	Total/NA	Water	200.7 Rev 4.4	337302
MB 550-337302/1-A	Method Blank	Total/NA	Water	200.7 Rev 4.4	337302
LCS 550-337302/2-A	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	337302
LCSD 550-337302/3-A	Lab Control Sample Dup	Total/NA	Water	200.7 Rev 4.4	337302
550-235331-1 MS	CCR -2D	Total/NA	Water	200.7 Rev 4.4	337302
550-235331-1 MSD	CCR -2D	Total/NA	Water	200.7 Rev 4.4	337302

Analysis Batch: 337752

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-235331-1	CCR -2D	Total/NA	Water	200.7 Rev 4.4	337302
550-235331-2	CCR-3D	Total/NA	Water	200.7 Rev 4.4	337302
550-235331-3	CCR-1D	Total/NA	Water	200.7 Rev 4.4	337302
550-235331-4	CCR1U	Total/NA	Water	200.7 Rev 4.4	337302
550-235331-5	CCR-2U	Total/NA	Water	200.7 Rev 4.4	337302
550-235331-6	CCR-4D	Total/NA	Water	200.7 Rev 4.4	337302
550-235331-7	CCR-2U-DUP	Total/NA	Water	200.7 Rev 4.4	337302
MB 550-337302/1-A	Method Blank	Total/NA	Water	200.7 Rev 4.4	337302
LCS 550-337302/2-A	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	337302
LCSD 550-337302/3-A	Lab Control Sample Dup	Total/NA	Water	200.7 Rev 4.4	337302

Prep Batch: 616858

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-235331-6	CCR-4D	Total Recoverable	Water	200.8	
MB 570-616858/1-A	Method Blank	Total Recoverable	Water	200.8	
LCS 570-616858/2-A	Lab Control Sample	Total Recoverable	Water	200.8	
LCSD 570-616858/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.8	
550-235331-6 MS	CCR-4D	Total Recoverable	Water	200.8	
550-235331-6 MSD	CCR-4D	Total Recoverable	Water	200.8	

QC Association Summary

Client: Tucson Electric Power
Job ID: 550-235331-1
Project/Site: Springerville - Detection and Assessment

Metals

Analysis Batch: 617272

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-235331-6	CCR-4D	Total Recoverable	Water	200.8	616858
MB 570-616858/1-A	Method Blank	Total Recoverable	Water	200.8	616858
LCS 570-616858/2-A	Lab Control Sample	Total Recoverable	Water	200.8	616858
LCSD 570-616858/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.8	616858
550-235331-6 MS	CCR-4D	Total Recoverable	Water	200.8	616858
550-235331-6 MSD	CCR-4D	Total Recoverable	Water	200.8	616858

Analysis Batch: 617635

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-235331-6	CCR-4D	Total Recoverable	Water	200.8	616858
MB 570-616858/1-A	Method Blank	Total Recoverable	Water	200.8	616858
LCS 570-616858/2-A	Lab Control Sample	Total Recoverable	Water	200.8	616858
LCSD 570-616858/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.8	616858
550-235331-6 MS	CCR-4D	Total Recoverable	Water	200.8	616858
550-235331-6 MSD	CCR-4D	Total Recoverable	Water	200.8	616858

General Chemistry

Analysis Batch: 337273

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-235331-1	CCR -2D	Total/NA	Water	SM 4500 H+ B	
550-235331-2	CCR-3D	Total/NA	Water	SM 4500 H+ B	
550-235331-3	CCR-1D	Total/NA	Water	SM 4500 H+ B	
550-235331-4	CCR1U	Total/NA	Water	SM 4500 H+ B	
550-235331-5	CCR-2U	Total/NA	Water	SM 4500 H+ B	
550-235331-6	CCR-4D	Total/NA	Water	SM 4500 H+ B	
550-235331-7	CCR-2U-DUP	Total/NA	Water	SM 4500 H+ B	
LCSSRM 550-337273/1	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	
LCSSRM 550-337273/13	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	
550-235331-6 DU	CCR-4D	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 337305

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-235331-1	CCR -2D	Total/NA	Water	SM 2540C	
550-235331-2	CCR-3D	Total/NA	Water	SM 2540C	
550-235331-3	CCR-1D	Total/NA	Water	SM 2540C	
550-235331-4	CCR1U	Total/NA	Water	SM 2540C	
550-235331-5	CCR-2U	Total/NA	Water	SM 2540C	
550-235331-6	CCR-4D	Total/NA	Water	SM 2540C	
550-235331-7	CCR-2U-DUP	Total/NA	Water	SM 2540C	
MB 550-337305/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 550-337305/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 550-337305/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
550-235331-1 DU	CCR -2D	Total/NA	Water	SM 2540C	

Lab Chronicle

Client: Tucson Electric Power
Job ID: 550-235331-1
Project/Site: Springerville - Detection and Assessment

Client Sample ID: CCR -2D
Lab Sample ID: 550-235331-1
Date Collected: 08/19/25 07:50
Matrix: Water
Date Received: 08/20/25 15:53

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	300.0		1	337144	R1K	EET PHX	08/20/25 18:46
Total/NA	Analysis	300.0		10	337144	R1K	EET PHX	08/20/25 18:56
Total/NA	Prep	200.7			337302	JAC	EET PHX	08/25/25 12:42
Total/NA	Analysis	200.7 Rev 4.4		1	337642	JAC	EET PHX	09/08/25 14:55
Total/NA	Prep	200.7			337302	JAC	EET PHX	08/25/25 12:42
Total/NA	Analysis	200.7 Rev 4.4		1	337752	JAC	EET PHX	09/11/25 22:04
Total/NA	Analysis	SM 2540C		1	337305	JAO	EET PHX	08/25/25 13:33 - 08/27/25 13:03 [1]
Total/NA	Analysis	SM 4500 H+ B		1	337273	FRL	EET PHX	08/23/25 12:27

Client Sample ID: CCR-3D
Lab Sample ID: 550-235331-2
Date Collected: 08/19/25 09:35
Matrix: Water
Date Received: 08/20/25 15:53

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	300.0		1	337144	R1K	EET PHX	08/20/25 19:06
Total/NA	Analysis	300.0		10	337144	R1K	EET PHX	08/20/25 19:17
Total/NA	Prep	200.7			337302	JAC	EET PHX	08/25/25 12:42
Total/NA	Analysis	200.7 Rev 4.4		1	337642	JAC	EET PHX	09/08/25 14:59
Total/NA	Prep	200.7			337302	JAC	EET PHX	08/25/25 12:42
Total/NA	Analysis	200.7 Rev 4.4		1	337752	JAC	EET PHX	09/11/25 22:08
Total/NA	Analysis	SM 2540C		1	337305	JAO	EET PHX	08/25/25 13:33 - 08/27/25 13:03 [1]
Total/NA	Analysis	SM 4500 H+ B		1	337273	FRL	EET PHX	08/23/25 12:27

Client Sample ID: CCR-1D
Lab Sample ID: 550-235331-3
Date Collected: 08/19/25 15:45
Matrix: Water
Date Received: 08/20/25 15:53

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	300.0		1	337144	R1K	EET PHX	08/20/25 19:27
Total/NA	Analysis	300.0		10	337144	R1K	EET PHX	08/20/25 19:37
Total/NA	Prep	200.7			337302	JAC	EET PHX	08/25/25 12:42
Total/NA	Analysis	200.7 Rev 4.4		1	337642	JAC	EET PHX	09/08/25 15:02
Total/NA	Prep	200.7			337302	JAC	EET PHX	08/25/25 12:42
Total/NA	Analysis	200.7 Rev 4.4		1	337752	JAC	EET PHX	09/11/25 22:11
Total/NA	Analysis	SM 2540C		1	337305	JAO	EET PHX	08/25/25 13:33 - 08/27/25 13:03 [1]
Total/NA	Analysis	SM 4500 H+ B		1	337273	FRL	EET PHX	08/23/25 12:27

Client Sample ID: CCR1U
Lab Sample ID: 550-235331-4
Date Collected: 08/19/25 17:20
Matrix: Water
Date Received: 08/20/25 15:53

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	300.0		50	337191	R1K	EET PHX	08/21/25 15:56
Total/NA	Analysis	300.0		1	337144	R1K	EET PHX	08/20/25 20:17

Lab Chronicle

Client: Tucson Electric Power
Job ID: 550-235331-1
Project/Site: Springerville - Detection and Assessment

Client Sample ID: CCR1U
Lab Sample ID: 550-235331-4
Date Collected: 08/19/25 17:20
Matrix: Water
Date Received: 08/20/25 15:53

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	300.0		10	337144	R1K	EET PHX	08/20/25 20:27
Total/NA	Prep	200.7			337302	JAC	EET PHX	08/25/25 12:42
Total/NA	Analysis	200.7 Rev 4.4		1	337642	JAC	EET PHX	09/08/25 15:06
Total/NA	Prep	200.7			337302	JAC	EET PHX	08/25/25 12:42
Total/NA	Analysis	200.7 Rev 4.4		1	337752	JAC	EET PHX	09/11/25 22:14
Total/NA	Analysis	SM 2540C		1	337305	JAO	EET PHX	08/25/25 13:33 - 08/27/25 13:03 [1]
Total/NA	Analysis	SM 4500 H+ B		1	337273	FRL	EET PHX	08/23/25 12:27

Client Sample ID: CCR-2U
Lab Sample ID: 550-235331-5
Date Collected: 08/19/25 09:00
Matrix: Water
Date Received: 08/20/25 15:53

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	300.0		1	337144	R1K	EET PHX	08/20/25 20:37
Total/NA	Analysis	300.0		10	337144	R1K	EET PHX	08/20/25 20:47
Total/NA	Prep	200.7			337302	JAC	EET PHX	08/25/25 12:42
Total/NA	Analysis	200.7 Rev 4.4		1	337642	JAC	EET PHX	09/08/25 15:09
Total/NA	Prep	200.7			337302	JAC	EET PHX	08/25/25 12:42
Total/NA	Analysis	200.7 Rev 4.4		1	337752	JAC	EET PHX	09/11/25 22:18
Total/NA	Analysis	SM 2540C		1	337305	JAO	EET PHX	08/25/25 13:33 - 08/27/25 13:03 [1]
Total/NA	Analysis	SM 4500 H+ B		1	337273	FRL	EET PHX	08/23/25 12:27

Client Sample ID: CCR-4D
Lab Sample ID: 550-235331-6
Date Collected: 08/19/25 10:20
Matrix: Water
Date Received: 08/20/25 15:53

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	300.0		50	337191	R1K	EET PHX	08/21/25 17:20
Total/NA	Analysis	300.0		1	337144	R1K	EET PHX	08/20/25 20:57
Total/NA	Prep	200.7			337302	JAC	EET PHX	08/25/25 12:42
Total/NA	Analysis	200.7 Rev 4.4		1	337642	JAC	EET PHX	09/08/25 15:12
Total/NA	Prep	200.7			337302	JAC	EET PHX	08/25/25 12:42
Total/NA	Analysis	200.7 Rev 4.4		1	337752	JAC	EET PHX	09/11/25 22:21
Total Recoverable	Prep	200.8			616858	F4JD	EET CAL 4	08/26/25 09:01
Total Recoverable	Analysis	200.8		5	617272	P1R	EET CAL 4	08/26/25 17:41
Total Recoverable	Prep	200.8			616858	F4JD	EET CAL 4	08/26/25 09:01
Total Recoverable	Analysis	200.8		5	617635	C0YH	EET CAL 4	08/27/25 11:32
Total/NA	Prep	245.1			337369	BXZ	EET PHX	08/27/25 15:30
Total/NA	Analysis	245.1		1	337417	BXZ	EET PHX	08/28/25 13:53
Total/NA	Analysis	SM 2540C		1	337305	JAO	EET PHX	08/25/25 13:33 - 08/27/25 13:03 [1]
Total/NA	Analysis	SM 4500 H+ B		1	337273	FRL	EET PHX	08/23/25 12:27

Lab Chronicle

Client: Tucson Electric Power
Job ID: 550-235331-1
Project/Site: Springerville - Detection and Assessment

Client Sample ID: CCR-2U-DUP
Lab Sample ID: 550-235331-7

Date Collected: 08/19/25 09:05
Matrix: Water

Date Received: 08/20/25 15:53

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	300.0		1	337144	R1K	EET PHX	08/20/25 21:17
Total/NA	Analysis	300.0		10	337144	R1K	EET PHX	08/20/25 21:28
Total/NA	Prep	200.7			337302	JAC	EET PHX	08/25/25 12:42
Total/NA	Analysis	200.7 Rev 4.4		1	337642	JAC	EET PHX	09/08/25 15:16
Total/NA	Prep	200.7			337302	JAC	EET PHX	08/25/25 12:42
Total/NA	Analysis	200.7 Rev 4.4		1	337752	JAC	EET PHX	09/11/25 22:25
Total/NA	Analysis	SM 2540C		1	337305	JAO	EET PHX	08/25/25 13:33 - 08/27/25 13:03 [1]
Total/NA	Analysis	SM 4500 H+ B		1	337273	FRL	EET PHX	08/23/25 12:27

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

EET PHX = Eurofins Phoenix, 4625 East Cotton Center Boulevard, Suite #189, Phoenix, AZ 85040, TEL (602)437-3340

Radiation = Radiation Safety, 3245 North Washington Street, Chandler, AZ 85225

Accreditation/Certification Summary

Client: Tucson Electric Power
Job ID: 550-235331-1
Project/Site: Springerville - Detection and Assessment

Laboratory: Eurofins Phoenix

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arizona	State	AZ0728	06-10-26

Laboratory: Eurofins Calscience

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	7296.01	11-30-26
A2LA	ISO/IEC 17025	7296.01	11-30-26
Alaska (UST)	State	25-005	03-02-26
Arizona	State	AZ0830	11-16-25
California	Los Angeles County Sanitation Districts	9257304	07-31-26
California	SCAQMD LAP	17LA0919	11-30-25
California	State	3082	07-31-26
Kansas	NELAP	E-10420	07-31-26
Nevada	State	CA00111	09-10-25
Oregon	NELAP	4175	09-18-25
USDA	US Federal Programs	525-23-159-97150	06-08-26
Utah	NELAP	CA00111	02-28-26
Washington	State	C916	10-11-25

Method Summary

Client: Tucson Electric Power
Job ID: 550-235331-1
Project/Site: Springerville - Detection and Assessment

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	EPA	EET PHX
200.7 Rev 4.4	Metals (ICP)	EPA	EET PHX
200.8	Metals (ICP/MS)	EPA	EET CAL 4
245.1	Mercury (CVAA)	EPA	EET PHX
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET PHX
SM 4500 H+ B	pH	SM	EET PHX
Subcontract	Radium 226/228	None	Radiation
200.7	Preparation, Total Metals	EPA	EET PHX
200.8	Preparation, Total Recoverable Metals	EPA	EET CAL 4
245.1	Preparation, Mercury	EPA	EET PHX

Protocol References:

EPA = US Environmental Protection Agency
None = None
SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494
EET PHX = Eurofins Phoenix, 4625 East Cotton Center Boulevard, Suite #189, Phoenix, AZ 85040, TEL (602)437-3340
Radiation = Radiation Safety, 3245 North Washington Street, Chandler, AZ 85225

235331

Eurofins Phoenix
4625 East Cotton Center Boulevard Suite #189
Phoenix, AZ 85040
Phone: 602-437-3340

Chain of Custody Record

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Client Information	Sampler: C. Walters	Lab PM: Johnson, Derek S	Carrier Tracking No(s):	COC No: 550-97815-29471.1
Client Contact: Mark Nicholls	Phone:	E-Mail: Derek.Johnson@et.eurofinsus.com	State of Origin:	Page: Page 1 of 1
Company: Haley & Aldrich, Inc.	PWSID:			Job #:
Address: 201 E. Washington St. Suite 1795	Due Date Requested:			
City: Phoenix	TAT Requested (days):			
State, Zip: AZ, 85004	Compliance Project: Δ Yes Δ No			
Phone:	PO #: 149836			
Email: mnicholls@haleyaldrich.com	WO #:			
Project Name: Springerville - Detection and Assessment	Project #: 55011633			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
D - HNO3
N - None
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air, DW=Drinking Water)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	200.7_CWA - (MOD) Boron, Calcium	2540C_Calcd, 300_ORGFMS, SM4500_H+	SUBCONTRACT - Radium 226/228	200.7_CWA, 200.8_CWA_LL, 245.1_CWA	200.7 - Lithium Only	Total Number of containers	Special Instructions/Note:
Preservation Code:					X	X	D	N	N	N	N	X	
CCR-2D (1)	8/19/25	0750	G	Water	N	N	X	X				3	
CCR-3D (2)	8/19/25	0935	G	Water	N	N	X	X				3	
CCR-1D (3)	8/19/25	1545	G	Water	N	N	X	X				3	
CCR-1U (4)	8/19/25	1720	G	Water	N	N	X	X				2	only able to fill 2 bottles
CCR-2U (5)	8/20/25	0900	G	Water	N	N	X	X				3	
CCR-4D (6)	8/20/25	1020	G	Water	N	N	X	X	X	X	X	5	
CCR-2U-DUP (7)	8/20/25	0905	G	Water	N	N	X	X				3	

550-235331 COC

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Chris Wang	8/20/25 1553	CEI			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
			[signature]	8/20/25 1553	EETA PHX

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: TH295 - 5.2°C - CDO - ice

Ver: 10/10/2024

Eurofins Phoenix
4625 East Cotton Center Boulevard Suite #189
Phoenix, AZ 85040
Phone: 602-437-3340

Chain of Custody Record

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Loc: 550
235331

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Johnson, Derek S	Carrier Tracking No(s): N/A	COC No: 550-43587.1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Derek.Johnson@et.eurofinsus.com	State of Origin: Arizona	Page: Page 1 of 1
Company: Eurofins Environment Testing Southwest,		Accreditations Required (See note): State Program - Arizona		Job #: 550-235331-1
Address: 2841 Dow Avenue, Suite 100, ,	Due Date Requested: 9/17/2025			
City: Tustin	TAT Requested (days): N/A			
State, Zip: CA, 92780				
Phone: 714-895-5494(Tel)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: Springerville - Detection and Assessment	Project #: 55011633			
Site: N/A	SSOW#: N/A			

Analysis Requested

Preservation Codes:
-

Other:
N/A

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	200.7/200.7_P_TR(MOD) Custom 200.7 Metals List	200.8_LL/200.8_P_TR(MOD) 1 metals , including prep	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
CCR-4D (550-235331-6)	8/19/25	10:20 Arizona	G	Water			X	X	1	

550-235331 Chain of Custody

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Southwest, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southwest, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Southwest, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Southwest, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by: 8-21-25 15:20		EETA-PHX	Fedex		
Relinquished by: Fedex	Date/Time:	Company	Received by:	Date/Time: 8/22/25 0940	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 2.0/2.3 Sgl

Login Sample Receipt Checklist

Client: Tucson Electric Power

Job Number: 550-235331-1

Login Number: 235331
List Number: 1
Creator: Robles, Kemberly

List Source: Eurofins Phoenix

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	False	Check done at department level as required.

This receipt checklist is generated for all samples received in this Login. It may not be applicable to all Jobs associated with this Login.

Login Sample Receipt Checklist

Client: Tucson Electric Power

Job Number: 550-235331-1

Login Number: 235331
List Number: 2
Creator: Khana, Piyush

List Source: Eurofins Calscience
List Creation: 08/22/25 03:49 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	Seal present with no number.
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.3
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

This receipt checklist is generated for all samples received in this Login. It may not be applicable to all Jobs associated with this Login.

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ANALYTICAL REPORT

PREPARED FOR

Attn: James Thomas
Tucson Electric Power
Attn: Accounts Payable
Mail Drop HQE703 PO BOX 3033
Tucson, Arizona 85702-3033

Generated 10/7/2025 6:18:27 PM

JOB DESCRIPTION

Springerville - Detection and Assessment
Re-analysis

JOB NUMBER

550-235331-2

Eurofins Phoenix
4625 East Cotton Center Boulevard
Suite #189
Phoenix AZ 85040

See page two for job notes and contact information.

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southwest, LLC Project Manager.

Authorization

Generated
10/7/2025 6:18:27 PM

Authorized for release by
Derek Johnson, Project Manager
Derek.Johnson@et.eurofinsus.com
(602)437-3340

Table of Contents

Definitions/Glossary

Client: Tucson Electric Power
Project/Site: Springerville - Detection and Assessment

Job ID: 550-235331-2
SDG: Re-analysis

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
D2	Sample required dilution due to high concentration of analyte.
E2	Concentration estimated. Analyte exceeded calibration range. Reanalysis not performed due to sample matrix.
E8	Analyte reported to MDL per project specification. Target analyte was not detected in the sample.
M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The associated blank spike was acceptable.

Metals

Qualifier	Qualifier Description
E8	Analyte reported to MDL per project specification. Target analyte was not detected in the sample.
M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The associated blank spike was acceptable.

General Chemistry

Qualifier	Qualifier Description
D2	Sample required dilution due to high concentration of analyte.
E8	Analyte reported to MDL per project specification. Target analyte was not detected in the sample.
H1	Sample analysis performed past holding time.
H5	This test is specified to be performed in the field within 15 minutes of sampling; sample was received and analyzed past the regulatory holding time.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TNTC	Too Numerous To Count

Job ID: 550-235331-2 Eurofins Phoenix

Job Narrative
550-235331-2

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt
The samples were received on 8/20/2025 3:53 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.2°C.

HPLC/IC
Method 300_ORGFMS: Reanalysis of the following sample was performed outside of the analytical holding time due to clients request. : CCR1U (550-235331-4).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry
Method 2540C_Calcd: The analysis for the following samples were requested past the holding time: CCR -2D (550-235331-1), CCR1U (550-235331-4) and CCR-4D (550-235331-6).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Sample Summary

Client: Tucson Electric Power
Project/Site: Springerville - Detection and Assessment

Job ID: 550-235331-2
SDG: Re-analysis

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
550-235331-1	CCR -2D	Water	08/19/25 07:50	08/20/25 15:53	Arizona
550-235331-4	CCR1U	Water	08/19/25 17:20	08/20/25 15:53	Arizona
550-235331-5	CCR-2U	Water	08/19/25 09:00	08/20/25 15:53	Arizona
550-235331-6	CCR-4D	Water	08/19/25 10:20	08/20/25 15:53	Arizona

Detection Summary

Client: Tucson Electric Power
Project/Site: Springerville - Detection and Assessment

Job ID: 550-235331-2
SDG: Re-analysis

Client Sample ID: CCR -2D — Lab Sample ID: 550-235331-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	4000	D2 H1	40	40	mg/L	1		SM 2540C	Total/NA

Client Sample ID: CCR1U — Lab Sample ID: 550-235331-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	2500	D2	100	21	mg/L	50		300.0	Total/NA
Boron	1.3		0.050	0.0094	mg/L	1		200.7 Rev 4.4	Total/NA
Calcium	840		2.0	0.068	mg/L	1		200.7 Rev 4.4	Total/NA
Total Dissolved Solids	5000	D2 H1	100	100	mg/L	1		SM 2540C	Total/NA

Client Sample ID: CCR-2U — Lab Sample ID: 550-235331-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
pH	6.6	H5	1.7	1.7	SU	1		SM 4500 H+ B	Total/NA

Client Sample ID: CCR-4D — Lab Sample ID: 550-235331-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	9500	D2 H1	100	100	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: CCR -2D
Lab Sample ID: 550-235331-1

Date Collected: 08/19/25 07:50
Matrix: Water
Date Received: 08/20/25 15:53

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	4000	D2 H1	40	40	mg/L			10/02/25 17:34	1

Client Sample ID: CCR1U
Lab Sample ID: 550-235331-4

Date Collected: 08/19/25 17:20
Matrix: Water
Date Received: 08/20/25 15:53

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	2500	D2	100	21	mg/L			10/01/25 15:51	50

Method: EPA 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1.3		0.050	0.0094	mg/L		10/03/25 13:27	10/06/25 18:26	1
Calcium	840		2.0	0.068	mg/L		10/03/25 13:27	10/06/25 18:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	5000	D2 H1	100	100	mg/L			10/02/25 17:34	1

Client Sample ID: CCR-2U
Lab Sample ID: 550-235331-5

Date Collected: 08/19/25 09:00
Matrix: Water
Date Received: 08/20/25 15:53

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SM 4500 H+ B)	6.6	H5	1.7	1.7	SU			10/02/25 17:07	1

Client Sample ID: CCR-4D
Lab Sample ID: 550-235331-6

Date Collected: 08/19/25 10:20
Matrix: Water
Date Received: 08/20/25 15:53

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	9500	D2 H1	100	100	mg/L			10/02/25 17:34	1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 550-338301/2
Matrix: Water
Analysis Batch: 338301

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND	E8	2.0	0.43	mg/L			10/01/25 11:51	1

Lab Sample ID: LCS 550-338301/5
Matrix: Water
Analysis Batch: 338301

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfate			20.0	19.8		mg/L		99	90 - 110		

Lab Sample ID: LCSD 550-338301/6
Matrix: Water
Analysis Batch: 338301

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate			20.0	19.7		mg/L		99	90 - 110	0	20

Lab Sample ID: 550-236675-A-1 MS
Matrix: Water
Analysis Batch: 338301

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfate	1300	E2 M3	100	1320	E2 M3	mg/L		37	80 - 120		

Lab Sample ID: 550-236675-A-1 MSD
Matrix: Water
Analysis Batch: 338301

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	1300	E2 M3	100	1320	E2 M3	mg/L		39	80 - 120	0	20

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 550-338383/1-A
Matrix: Water
Analysis Batch: 338455

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 338383

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	ND	E8	0.050	0.0094	mg/L		10/03/25 13:27	10/06/25 18:06	1
Calcium	ND	E8	2.0	0.068	mg/L		10/03/25 13:27	10/06/25 18:06	1

Lab Sample ID: LCS 550-338383/2-A
Matrix: Water
Analysis Batch: 338455

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 338383

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Boron			1.00	0.972		mg/L		97	85 - 115		
Calcium			21.0	20.2		mg/L		96	85 - 115		

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Lab Sample ID: LCSD 550-338383/3-A
Matrix: Water
Analysis Batch: 338455

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 338383

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron			1.00	0.971		mg/L		97	85 - 115	0	20
Calcium			21.0	20.2		mg/L		96	85 - 115	0	20

Lab Sample ID: 380-174192-F-2-B MS
Matrix: Water
Analysis Batch: 338455

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 338383

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Boron	0.22		1.00	1.22		mg/L		100	70 - 130		
Calcium	98		21.0	119	M3	mg/L		103	70 - 130		

Lab Sample ID: 380-174192-F-2-C MSD
Matrix: Water
Analysis Batch: 338455

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 338383

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron	0.22		1.00	1.22		mg/L		99	70 - 130	0	20
Calcium	98		21.0	119	M3	mg/L		103	70 - 130	0	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 550-338355/1
Matrix: Water
Analysis Batch: 338355

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND	E8	20	20	mg/L			10/02/25 17:34	1

Lab Sample ID: LCS 550-338355/2
Matrix: Water
Analysis Batch: 338355

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids			1000	1090		mg/L		109	90 - 110		

Lab Sample ID: LCSD 550-338355/3
Matrix: Water
Analysis Batch: 338355

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids			1000	1060		mg/L		106	90 - 110	3	10

Lab Sample ID: 550-235331-1 DU
Matrix: Water
Analysis Batch: 338355

Client Sample ID: CCR -2D
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	4000	H1 D2		3990	D2	mg/L				0.7	10

Method: SM 4500 H+ B - pH

Lab Sample ID: LCSSRM 550-338354/13
Matrix: Water
Analysis Batch: 338354

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits		
pH			7.00	7.1		SU		100.7	98.5 - 101.5		

Lab Sample ID: LCSSRM 550-338354/25
Matrix: Water
Analysis Batch: 338354

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits		
pH			7.00	7.1		SU		100.9	98.5 - 101.5		

Lab Sample ID: 550-236677-B-1 DU
Matrix: Water
Analysis Batch: 338354

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
pH	7.0			7.0		SU				0.2	5

HPLC/IC

Analysis Batch: 338301

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-235331-4	CCR1U	Total/NA	Water	300.0	
MB 550-338301/2	Method Blank	Total/NA	Water	300.0	
LCS 550-338301/5	Lab Control Sample	Total/NA	Water	300.0	
LCSD 550-338301/6	Lab Control Sample Dup	Total/NA	Water	300.0	
550-236675-A-1 MS	Matrix Spike	Total/NA	Water	300.0	
550-236675-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	

Metals

Prep Batch: 338383

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-235331-4	CCR1U	Total/NA	Water	200.7	
MB 550-338383/1-A	Method Blank	Total/NA	Water	200.7	
LCS 550-338383/2-A	Lab Control Sample	Total/NA	Water	200.7	
LCSD 550-338383/3-A	Lab Control Sample Dup	Total/NA	Water	200.7	
380-174192-F-2-B MS	Matrix Spike	Total/NA	Water	200.7	
380-174192-F-2-C MSD	Matrix Spike Duplicate	Total/NA	Water	200.7	

Analysis Batch: 338455

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-235331-4	CCR1U	Total/NA	Water	200.7 Rev 4.4	338383
MB 550-338383/1-A	Method Blank	Total/NA	Water	200.7 Rev 4.4	338383
LCS 550-338383/2-A	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	338383
LCSD 550-338383/3-A	Lab Control Sample Dup	Total/NA	Water	200.7 Rev 4.4	338383
380-174192-F-2-B MS	Matrix Spike	Total/NA	Water	200.7 Rev 4.4	338383
380-174192-F-2-C MSD	Matrix Spike Duplicate	Total/NA	Water	200.7 Rev 4.4	338383

General Chemistry

Analysis Batch: 338354

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-235331-5	CCR-2U	Total/NA	Water	SM 4500 H+ B	
LCSSRM 550-338354/13	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	
LCSSRM 550-338354/25	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	
550-236677-B-1 DU	Duplicate	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 338355

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-235331-1	CCR -2D	Total/NA	Water	SM 2540C	
550-235331-4	CCR1U	Total/NA	Water	SM 2540C	
550-235331-6	CCR-4D	Total/NA	Water	SM 2540C	
MB 550-338355/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 550-338355/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 550-338355/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
550-235331-1 DU	CCR -2D	Total/NA	Water	SM 2540C	

Lab Chronicle

Client: Tucson Electric Power
Project/Site: Springerville - Detection and Assessment

Job ID: 550-235331-2
SDG: Re-analysis

Client Sample ID: CCR -2D

Lab Sample ID: 550-235331-1

Date Collected: 08/19/25 07:50
Matrix: Water
Date Received: 08/20/25 15:53

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	SM 2540C		1	338355	JAO	EET PHX	10/02/25 17:34 - 10/03/25 16:32 [1]

Client Sample ID: CCR1U

Lab Sample ID: 550-235331-4

Date Collected: 08/19/25 17:20
Matrix: Water
Date Received: 08/20/25 15:53

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	300.0		50	338301	R1K	EET PHX	10/01/25 15:51
Total/NA	Prep	200.7			338383	AG	EET PHX	10/03/25 13:27
Total/NA	Analysis	200.7 Rev 4.4		1	338455	JAC	EET PHX	10/06/25 18:26
Total/NA	Analysis	SM 2540C		1	338355	JAO	EET PHX	10/02/25 17:34 - 10/03/25 16:32 [1]

Client Sample ID: CCR-2U

Lab Sample ID: 550-235331-5

Date Collected: 08/19/25 09:00
Matrix: Water
Date Received: 08/20/25 15:53

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	SM 4500 H+ B		1	338354	FRL	EET PHX	10/02/25 17:07

Client Sample ID: CCR-4D

Lab Sample ID: 550-235331-6

Date Collected: 08/19/25 10:20
Matrix: Water
Date Received: 08/20/25 15:53

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	SM 2540C		1	338355	JAO	EET PHX	10/02/25 17:34 - 10/03/25 16:32 [1]

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET PHX = Eurofins Phoenix, 4625 East Cotton Center Boulevard, Suite #189, Phoenix, AZ 85040, TEL (602)437-3340

Accreditation/Certification Summary

Client: Tucson Electric Power
Job ID: 550-235331-2
Project/Site: Springerville - Detection and Assessment
SDG: Re-analysis

Laboratory: Eurofins Phoenix

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arizona	State	AZ0728	06-10-26

Method Summary

Client: Tucson Electric Power
Project/Site: Springerville - Detection and Assessment

Job ID: 550-235331-2
SDG: Re-analysis

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	EPA	EET PHX
200.7 Rev 4.4	Metals (ICP)	EPA	EET PHX
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET PHX
SM 4500 H+ B	pH	SM	EET PHX
200.7	Preparation, Total Metals	EPA	EET PHX

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

EET PHX = Eurofins Phoenix, 4625 East Cotton Center Boulevard, Suite #189, Phoenix, AZ 85040, TEL (602)437-3340

Login Sample Receipt Checklist

Client: Tucson Electric Power

Job Number: 550-235331-2
SDG Number: Re-analysis

Login Number: 235331
List Number: 1
Creator: Robles, Kemberly

List Source: Eurofins Phoenix

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	False	Check done at department level as required.

This receipt checklist is generated for all samples received in this Login. It may not be applicable to all Jobs associated with this Login.

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1 2 3 4 5 6 7 8 9 10 11 12 13 14

ANALYTICAL REPORT

PREPARED FOR

Attn: James Thomas
Tucson Electric Power
Attn: Accounts Payable
Mail Drop HQE703 PO BOX 3033
Tucson, Arizona 85702-3033

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JOB DESCRIPTION

Springerville - Detection and Assessment

JOB NUMBER

550-237955-1

Eurofins Phoenix
4625 East Cotton Center Boulevard
Suite #189
Phoenix AZ 85040

See page two for job notes and contact information.

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southwest, LLC Project Manager.

Authorization

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Authorized for release by
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Derek.Johnson@et.eurofinsus.com
(602)437-3340

Table of Contents

Definitions/Glossary

Client: Tucson Electric Power
Job ID: 550-237955-1
Project/Site: Springerville - Detection and Assessment

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
D2	Sample required dilution due to high concentration of analyte.
E2	Concentration estimated. Analyte exceeded calibration range. Reanalysis not performed due to sample matrix.
E8	Analyte reported to MDL per project specification. Target analyte was not detected in the sample.
M1	Matrix spike recovery was high, the associated blank spike recovery was acceptable.
M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The associated blank spike was acceptable.

Metals

Qualifier	Qualifier Description
E8	Analyte reported to MDL per project specification. Target analyte was not detected in the sample.
M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The associated blank spike was acceptable.

General Chemistry

Qualifier	Qualifier Description
D2	Sample required dilution due to high concentration of analyte.
E8	Analyte reported to MDL per project specification. Target analyte was not detected in the sample.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 550-237955-1 Eurofins Phoenix

Job Narrative
550-237955-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt
The samples were received on 11/6/2025 10:36 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.8°C.

HPLC/IC
Method 300_ORGFMS: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 550-339320 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 300_ORGFMS: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for analytical batch 550-339359 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Sample Summary

Client: Tucson Electric Power
Job ID: 550-237955-1
Project/Site: Springerville - Detection and Assessment

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
550-237955-1	CCR-1U	Water	11/04/25 13:50	11/06/25 10:36	Arizona
550-237955-2	CCR-2D	Water	11/04/25 12:20	11/06/25 10:36	Arizona

Detection Summary

Client: Tucson Electric Power
Job ID: 550-237955-1
Project/Site: Springerville - Detection and Assessment

Client Sample ID: CCR-1U
Lab Sample ID: 550-237955-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	6900	D2	100	100	mg/L	1		SM 2540C	Total/NA

Client Sample ID: CCR-2D
Lab Sample ID: 550-237955-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	2.7		0.40	0.11	mg/L	1		300.0	Total/NA
Chloride - DL	670	D2	40	23	mg/L	20		300.0	Total/NA
Sulfate - DL	2300	D2	40	8.5	mg/L	20		300.0	Total/NA
Boron	0.88		0.050	0.0094	mg/L	1		200.7 Rev 4.4	Total/NA
Calcium	320		2.0	0.068	mg/L	1		200.7 Rev 4.4	Total/NA
Total Dissolved Solids	3900	D2	40	40	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: CCR-1U
Lab Sample ID: 550-237955-1

Date Collected: 11/04/25 13:50
Matrix: Water
Date Received: 11/06/25 10:36

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	6900	D2	100	100	mg/L			11/06/25 15:23	1

Client Sample ID: CCR-2D
Lab Sample ID: 550-237955-2

Date Collected: 11/04/25 12:20
Matrix: Water
Date Received: 11/06/25 10:36

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	2.7		0.40	0.11	mg/L			11/07/25 04:36	1

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	670	D2	40	23	mg/L			11/07/25 15:40	20
Sulfate	2300	D2	40	8.5	mg/L			11/07/25 15:40	20

Method: EPA 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.88		0.050	0.0094	mg/L		11/07/25 11:16	11/11/25 14:42	1
Calcium	320		2.0	0.068	mg/L		11/07/25 11:16	11/11/25 14:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	3900	D2	40	40	mg/L			11/06/25 15:23	1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 550-339320/2
Matrix: Water
Analysis Batch: 339320

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND	E8	0.40	0.11	mg/L			11/06/25 11:51	1
Chloride	ND	E8	2.0	1.1	mg/L			11/06/25 11:51	1
Sulfate	ND	E8	2.0	0.43	mg/L			11/06/25 11:51	1

Lab Sample ID: LCS 550-339320/5
Matrix: Water
Analysis Batch: 339320

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	4.00	3.80		mg/L		95	90 - 110
Chloride	20.0	19.6		mg/L		98	90 - 110
Sulfate	20.0	20.3		mg/L		102	90 - 110

Lab Sample ID: LCSD 550-339320/6
Matrix: Water
Analysis Batch: 339320

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoride	4.00	3.85		mg/L		96	90 - 110	1	20
Chloride	20.0	20.4		mg/L		102	90 - 110	4	20
Sulfate	20.0	20.4		mg/L		102	90 - 110	0	20

Lab Sample ID: 550-237923-B-1 MS
Matrix: Water
Analysis Batch: 339320

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	3.1	E4 M1 D2	80.0	135	D2 M1	mg/L		164	80 - 120
Chloride	490	M1 D2	400	1170	D2 M1	mg/L		171	80 - 120
Sulfate	1000	M1 D2	400	1700	D2 M1	mg/L		170	80 - 120

Lab Sample ID: 550-237923-B-1 MSD
Matrix: Water
Analysis Batch: 339320

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoride	3.1	E4 M1 D2	80.0	159	D2 M1	mg/L		195	80 - 120	17	20
Chloride	490	M1 D2	400	1320	D2 M1	mg/L		206	80 - 120	11	20
Sulfate	1000	M1 D2	400	1880	D2 M1	mg/L		217	80 - 120	11	20

Lab Sample ID: MB 550-339359/2
Matrix: Water
Analysis Batch: 339359

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND	E8	0.40	0.11	mg/L			11/07/25 11:57	1
Chloride	ND	E8	2.0	1.1	mg/L			11/07/25 11:57	1
Sulfate	ND	E8	2.0	0.43	mg/L			11/07/25 11:57	1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 550-339359/5
Matrix: Water
Analysis Batch: 339359

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Fluoride			4.00	3.76		mg/L		94	90 - 110		
Chloride			20.0	19.6		mg/L		98	90 - 110		
Sulfate			20.0	20.7		mg/L		103	90 - 110		

Lab Sample ID: LCSD 550-339359/6
Matrix: Water
Analysis Batch: 339359

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoride			4.00	3.76		mg/L		94	90 - 110	0	20
Chloride			20.0	19.5		mg/L		97	90 - 110	1	20
Sulfate			20.0	20.1		mg/L		100	90 - 110	3	20

Lab Sample ID: 550-238013-A-1 MS
Matrix: Water
Analysis Batch: 339359

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Fluoride	0.76	M1	4.00	6.46	M1	mg/L		142	80 - 120		
Chloride	180	M3	20.0	199	M3	mg/L		93	80 - 120		
Sulfate	690	E2 M3	20.0	650	E2 M3	mg/L		-215	80 - 120		

Lab Sample ID: 550-238013-A-1 MSD
Matrix: Water
Analysis Batch: 339359

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoride	0.76	M1	4.00	7.51	M1	mg/L		169	80 - 120	15	20
Chloride	180	M3	20.0	206	E2 M3	mg/L		125	80 - 120	3	20
Sulfate	690	E2 M3	20.0	666	E2 M3	mg/L		-135	80 - 120	2	20

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 550-339354/1-A
Matrix: Water
Analysis Batch: 339438

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 339354

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	ND	E8	0.050	0.0094	mg/L		11/07/25 11:16	11/11/25 14:08	1
Calcium	ND	E8	2.0	0.068	mg/L		11/07/25 11:16	11/11/25 14:08	1

Lab Sample ID: LCS 550-339354/2-A
Matrix: Water
Analysis Batch: 339438

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 339354

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Boron			1.00	1.08		mg/L		108	85 - 115		
Calcium			21.0	21.3		mg/L		101	85 - 115		

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Lab Sample ID: LCSD 550-339354/3-A
Client Sample ID: Lab Control Sample Dup
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 339438
Prep Batch: 339354

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron			1.00	1.07		mg/L		107	85 - 115	1	20
Calcium			21.0	20.5		mg/L		97	85 - 115	4	20

Lab Sample ID: 550-238013-C-1-B MS
Client Sample ID: Matrix Spike
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 339438
Prep Batch: 339354

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Boron	1.7		1.00	2.82		mg/L		111	70 - 130		
Calcium	140		21.0	161	M3	mg/L		108	70 - 130		

Lab Sample ID: 550-238013-C-1-C MSD
Client Sample ID: Matrix Spike Duplicate
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 339438
Prep Batch: 339354

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron	1.7		1.00	2.87		mg/L		115	70 - 130	2	20
Calcium	140		21.0	163	M3	mg/L		117	70 - 130	1	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 550-339329/1
Client Sample ID: Method Blank
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 339329

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND	E8	20	20	mg/L			11/06/25 15:23	1

Lab Sample ID: LCS 550-339329/2
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 339329

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids			1000	988		mg/L		99	90 - 110		

Lab Sample ID: LCSD 550-339329/3
Client Sample ID: Lab Control Sample Dup
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 339329

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids			1000	1000		mg/L		100	90 - 110	1	10

Lab Sample ID: 550-237892-A-20 DU
Client Sample ID: Duplicate
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 339329

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	1400			1380		mg/L				1	10

QC Association Summary

Client: Tucson Electric Power
Job ID: 550-237955-1
Project/Site: Springerville - Detection and Assessment

HPLC/IC

Analysis Batch: 339320

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-237955-2	CCR-2D	Total/NA	Water	300.0	
MB 550-339320/2	Method Blank	Total/NA	Water	300.0	
LCS 550-339320/5	Lab Control Sample	Total/NA	Water	300.0	
LCSD 550-339320/6	Lab Control Sample Dup	Total/NA	Water	300.0	
550-237923-B-1 MS	Matrix Spike	Total/NA	Water	300.0	
550-237923-B-1 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	

Analysis Batch: 339359

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-237955-2 - DL	CCR-2D	Total/NA	Water	300.0	
MB 550-339359/2	Method Blank	Total/NA	Water	300.0	
LCS 550-339359/5	Lab Control Sample	Total/NA	Water	300.0	
LCSD 550-339359/6	Lab Control Sample Dup	Total/NA	Water	300.0	
550-238013-A-1 MS	Matrix Spike	Total/NA	Water	300.0	
550-238013-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	

Metals

Prep Batch: 339354

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-237955-2	CCR-2D	Total/NA	Water	200.7	
MB 550-339354/1-A	Method Blank	Total/NA	Water	200.7	
LCS 550-339354/2-A	Lab Control Sample	Total/NA	Water	200.7	
LCSD 550-339354/3-A	Lab Control Sample Dup	Total/NA	Water	200.7	
550-238013-C-1-B MS	Matrix Spike	Total/NA	Water	200.7	
550-238013-C-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	200.7	

Analysis Batch: 339438

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-237955-2	CCR-2D	Total/NA	Water	200.7 Rev 4.4	339354
MB 550-339354/1-A	Method Blank	Total/NA	Water	200.7 Rev 4.4	339354
LCS 550-339354/2-A	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	339354
LCSD 550-339354/3-A	Lab Control Sample Dup	Total/NA	Water	200.7 Rev 4.4	339354
550-238013-C-1-B MS	Matrix Spike	Total/NA	Water	200.7 Rev 4.4	339354
550-238013-C-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	200.7 Rev 4.4	339354

General Chemistry

Analysis Batch: 339329

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-237955-1	CCR-1U	Total/NA	Water	SM 2540C	
550-237955-2	CCR-2D	Total/NA	Water	SM 2540C	
MB 550-339329/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 550-339329/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 550-339329/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
550-237892-A-20 DU	Duplicate	Total/NA	Water	SM 2540C	

Lab Chronicle

Client: Tucson Electric Power
Job ID: 550-237955-1
Project/Site: Springerville - Detection and Assessment

Client Sample ID: CCR-1U
Lab Sample ID: 550-237955-1
Date Collected: 11/04/25 13:50
Matrix: Water
Date Received: 11/06/25 10:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	SM 2540C		1	339329	MML	EET PHX	11/06/25 15:23 - 11/08/25 11:44 [1]

Client Sample ID: CCR-2D
Lab Sample ID: 550-237955-2
Date Collected: 11/04/25 12:20
Matrix: Water
Date Received: 11/06/25 10:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	300.0		1	339320	KMS	EET PHX	11/07/25 04:36
Total/NA	Analysis	300.0	DL	20	339359	KMS	EET PHX	11/07/25 15:40
Total/NA	Prep	200.7			339354	RDC	EET PHX	11/07/25 11:16
Total/NA	Analysis	200.7 Rev 4.4		1	339438	JAC	EET PHX	11/11/25 14:42
Total/NA	Analysis	SM 2540C		1	339329	MML	EET PHX	11/06/25 15:23 - 11/08/25 11:44 [1]

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET PHX = Eurofins Phoenix, 4625 East Cotton Center Boulevard, Suite #189, Phoenix, AZ 85040, TEL (602)437-3340

Accreditation/Certification Summary

Client: Tucson Electric Power
Job ID: 550-237955-1
Project/Site: Springerville - Detection and Assessment

Laboratory: Eurofins Phoenix

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arizona	State	AZ0728	06-10-26

Method Summary

Client: Tucson Electric Power
Job ID: 550-237955-1
Project/Site: Springerville - Detection and Assessment

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	EPA	EET PHX
200.7 Rev 4.4	Metals (ICP)	EPA	EET PHX
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET PHX
200.7	Preparation, Total Metals	EPA	EET PHX

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

EET PHX = Eurofins Phoenix, 4625 East Cotton Center Boulevard, Suite #189, Phoenix, AZ 85040, TEL (602)437-3340

Eurofins Phoenix
4625 East Cotton Center Boulevard Suite #189
Phoenix, AZ 85040
Phone (602) 437-3340

Chain of Custody Record

237955

Client Information	Sampler: E. Morse	Lab PM: Johnson, Derek S	Carrier Tracking No(s):	COC No: 550-98856-29780.1
Client Contact: Samantha Kaney	Phone:	E-Mail: Derek.Johnson@et.eurofinsus.com	State of Origin:	Page: Page 1 of 1
Company: Haley & Aldrich, Inc.	PWSID:			Job #:
Address: 6420 S. Macadam Ave. Suite #100	Due Date Requested:	**Analysis Requested**		Preservation Codes: N - None; D - HNO3
City: Portland	TAT Requested (days):			
State, Zip: OR, 97239	Compliance Project: Δ Yes Δ No			
Phone:	PO #: 149836			
Email: SKaney@haleyaldrich.com	WO #:			
Project Name: Springerville - Detection and Assessment	Project #: 55011633			
Site:	SSOW#:			Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air, DW=Drinking Water)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2540 - TDS	200.7 - (MOD) Boron Calcium	2540 300_	Total Number of containers	Special Instructions/Note:
				Preservation Code:			N	D	N		
CCR-1U	11/4/25	1350	G	Water	N	N	X				
CCR-2D	11/4/25	1220	G	Water	N	N	X	X	X		

Possible Hazard Identification
Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Return To Client Disposal By Lab Archive For ________ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: CDD1 1-8/11e 1 HAZ05

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
[signature]	11/6/25 @ 1036	SET			
			[signature]	11-06-25 1036	TA PHX

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

Ver: 05/06/2024

550-237955 COC

Login Sample Receipt Checklist

Client: Tucson Electric Power

Job Number: 550-237955-1

Login Number: 237955

List Source: Eurofins Phoenix

List Number: 1

Creator: Storrer, Aurora L

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	False	Check done at department level as required.

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: James Thomas
Tucson Electric Power
Attn: Accounts Payable
Mail Drop HQE703 PO BOX 3033
Tucson, Arizona 85702-3033

Generated 1/16/2026 3:49:06 PM Revision 1

JOB DESCRIPTION

Springerville - Detection and Assessment

JOB NUMBER

550-239452-1

Eurofins Phoenix
4625 East Cotton Center Boulevard
Suite #189
Phoenix AZ 85040

See page two for job notes and contact information.

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southwest, LLC Project Manager.

Authorization

Generated
1/16/2026 3:49:06 PM
Revision 1

Authorized for release by
Emily Petrunia, Project Manager I
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Designee for
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Table of Contents

Definitions/Glossary

Client: Tucson Electric Power
Job ID: 550-239452-1
Project/Site: Springerville - Detection and Assessment

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
D2	Sample required dilution due to high concentration of analyte.
E8	Analyte reported to MDL per project specification. Target analyte was not detected in the sample.
M2	Matrix spike recovery was low, the associated blank spike recovery was acceptable.
M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The associated blank spike was acceptable.

Metals

Qualifier	Qualifier Description
E4	Concentration estimated. Analyte was detected below laboratory minimum reporting level (MRL) but above MDL.
E8	Analyte reported to MDL per project specification. Target analyte was not detected in the sample.
M2	Matrix spike recovery was low, the associated blank spike recovery was acceptable.
M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The associated blank spike was acceptable.

General Chemistry

Qualifier	Qualifier Description
D2	Sample required dilution due to high concentration of analyte.
E8	Analyte reported to MDL per project specification. Target analyte was not detected in the sample.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job Narrative
550-239452-1

REVISION
The report being provided is a revision of the original report sent on 1/7/2026. The report (revision 1) is being revised due to: Client requested to change the sample ID for sample -03 from CCR-1D to CCR-1U. Additionally, the client requested to add analytical to the sample -03 for metals analysis. This revised report (1) reflects this ID change and adds metals to sample -03.

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt
The samples were received on 12/17/2025 7:02 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.1°C.

Receipt Exceptions
The following sample(s) was improperly preserved in the field: CCR-1U. The preservative used is not compatible with the analytes requested. This does not meet regulatory requirements.

CCR-5D (550-239452-2)

Subcontract Work
Method Radium 226/228: This method was subcontracted to Radiation Safety Eng., Inc. The subcontract laboratory certification is different from that of the facility issuing the final report. The subcontract report is appended in its entirety.

HPLC/IC
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals
Method 200.8_LL - Total Recoverable: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 570-679060 and analytical batch 570-679437 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Sample Summary

Client: Tucson Electric Power
Job ID: 550-239452-1
Project/Site: Springerville - Detection and Assessment

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
550-239452-1	CCR-2D	Water	12/15/25 15:55	12/17/25 07:02	Arizona
550-239452-2	CCR-5D	Water	12/16/25 09:00	12/17/25 07:02	Arizona
550-239452-3	CCR-1U	Water	12/16/25 13:50	12/17/25 07:02	Arizona

Detection Summary

Client: Tucson Electric Power
Job ID: 550-239452-1
Project/Site: Springerville - Detection and Assessment

Client Sample ID: CCR-2D — Lab Sample ID: 550-239452-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	3900	D2	100	100	mg/L	1		SM 2540C	Total/NA

Client Sample ID: CCR-5D — Lab Sample ID: 550-239452-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	2.7		0.40	0.11	mg/L	1		300.0	Total/NA
Chloride	530	D2	40	23	mg/L	20		300.0	Total/NA
Sulfate	1300	D2	40	8.5	mg/L	20		300.0	Total/NA
Boron	0.84		0.050	0.0094	mg/L	1		200.7 Rev 4.4	Total/NA
Calcium	420		2.0	0.068	mg/L	1		200.7 Rev 4.4	Total/NA
Lithium	0.63		0.050	0.030	mg/L	1		200.7 Rev 4.4	Total Recoverable
Antimony	0.0023		0.0010	0.00051	mg/L	1		200.8	Total Recoverable
Arsenic	0.039		0.00020	0.000083	mg/L	1		200.8	Total Recoverable
Barium	21		0.50	0.19	ug/L	1		200.8	Total Recoverable
Beryllium	0.48	E4	0.50	0.22	ug/L	1		200.8	Total Recoverable
Chromium	0.0012		0.0010	0.00012	mg/L	1		200.8	Total Recoverable
Cobalt	29		0.20	0.039	ug/L	1		200.8	Total Recoverable
Lead	0.0016		0.00020	0.00012	mg/L	1		200.8	Total Recoverable
Molybdenum	8.7		0.50	0.16	ug/L	1		200.8	Total Recoverable
Thallium	0.0085		0.00020	0.000081	mg/L	1		200.8	Total Recoverable
Total Dissolved Solids	3100	D2	40	40	mg/L	1		SM 2540C	Total/NA

Client Sample ID: CCR-1U — Lab Sample ID: 550-239452-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	0.78		0.050	0.0094	mg/L	1		200.7 Rev 4.4	Total/NA
Calcium	430		2.0	0.068	mg/L	1		200.7 Rev 4.4	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: CCR-2D
Lab Sample ID: 550-239452-1
Date Collected: 12/15/25 15:55
Matrix: Water
Date Received: 12/17/25 07:02

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	3900	D2	100	100	mg/L			12/18/25 15:05	1

Client Sample ID: CCR-5D
Lab Sample ID: 550-239452-2
Date Collected: 12/16/25 09:00
Matrix: Water
Date Received: 12/17/25 07:02

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	2.7		0.40	0.11	mg/L			12/22/25 16:23	1
Chloride	530	D2	40	23	mg/L			12/20/25 01:23	20
Sulfate	1300	D2	40	8.5	mg/L			12/20/25 01:23	20

Method: EPA 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.84		0.050	0.0094	mg/L		12/19/25 11:24	12/22/25 21:56	1
Calcium	420		2.0	0.068	mg/L		12/19/25 11:24	12/22/25 21:56	1

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.63		0.050	0.030	mg/L		01/06/26 09:07	01/06/26 15:26	1

Method: EPA 200.8 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0023		0.0010	0.00051	mg/L		01/06/26 11:44	01/06/26 21:42	1
Arsenic	0.039		0.00020	0.000083	mg/L		01/06/26 11:44	01/06/26 21:42	1
Barium	21		0.50	0.19	ug/L		01/06/26 11:44	01/06/26 21:42	1
Cadmium	ND	E8	0.00020	0.000044	mg/L		01/06/26 11:44	01/06/26 21:42	1
Beryllium	0.48	E4	0.50	0.22	ug/L		01/06/26 11:44	01/06/26 21:42	1
Chromium	0.0012		0.0010	0.00012	mg/L		01/06/26 11:44	01/06/26 21:42	1
Cobalt	29		0.20	0.039	ug/L		01/06/26 11:44	01/06/26 21:42	1
Lead	0.0016		0.00020	0.00012	mg/L		01/06/26 11:44	01/06/26 21:42	1
Molybdenum	8.7		0.50	0.16	ug/L		01/06/26 11:44	01/06/26 21:42	1
Thallium	0.0085		0.00020	0.000081	mg/L		01/06/26 11:44	01/06/26 21:42	1
Selenium	ND	E8	1.0	0.71	ug/L		01/06/26 11:44	01/06/26 21:42	1

Method: EPA 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND	E8	0.00020	0.000070	mg/L		12/18/25 16:00	12/19/25 13:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	3100	D2	40	40	mg/L			12/23/25 18:47	1

Client Sample ID: CCR-1U
Lab Sample ID: 550-239452-3
Date Collected: 12/16/25 13:50
Matrix: Water
Date Received: 12/17/25 07:02

Method: EPA 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.78		0.050	0.0094	mg/L		01/15/26 09:28	01/16/26 14:43	1
Calcium	430		2.0	0.068	mg/L		01/15/26 09:28	01/16/26 14:43	1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 550-340517/30
Matrix: Water
Analysis Batch: 340517

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND	E8	0.40	0.11	mg/L			12/19/25 21:26	1
Chloride	ND	E8	2.0	1.1	mg/L			12/19/25 21:26	1
Sulfate	ND	E8	2.0	0.43	mg/L			12/19/25 21:26	1

Lab Sample ID: LCS 550-340517/33
Matrix: Water
Analysis Batch: 340517

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	20.0	21.2		mg/L		106	90 - 110
Sulfate	20.0	21.4		mg/L		107	90 - 110

Lab Sample ID: LCSD 550-340517/34
Matrix: Water
Analysis Batch: 340517

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	20.0	21.2		mg/L		106	90 - 110	0	20
Sulfate	20.0	21.5		mg/L		107	90 - 110	0	20

Lab Sample ID: 550-239432-A-1 MS
Matrix: Water
Analysis Batch: 340517

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	1.1	E4 L3	40.0	32.4		mg/L		81	80 - 120
Chloride	43	M2	200	172	M2	mg/L		65	80 - 120
Sulfate	180		200	344		mg/L		84	80 - 120

Lab Sample ID: 550-239432-A-1 MSD
Matrix: Water
Analysis Batch: 340517

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoride	1.1	E4 L3	40.0	36.0		mg/L		90	80 - 120	10	20
Chloride	43	M2	200	183	M2	mg/L		70	80 - 120	6	20
Sulfate	180		200	364		mg/L		94	80 - 120	6	20

Lab Sample ID: MB 550-340529/2
Matrix: Water
Analysis Batch: 340529

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND	E8	0.40	0.11	mg/L			12/22/25 10:56	1
Chloride	ND	E8	2.0	1.1	mg/L			12/22/25 10:56	1
Sulfate	ND	E8	2.0	0.43	mg/L			12/22/25 10:56	1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 550-340529/5
Matrix: Water
Analysis Batch: 340529

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Fluoride			4.00	3.94		mg/L		98	90 - 110		
Chloride			20.0	19.0		mg/L		95	90 - 110		
Sulfate			20.0	19.1		mg/L		96	90 - 110		

Lab Sample ID: LCSD 550-340529/6
Matrix: Water
Analysis Batch: 340529

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoride			4.00	3.96		mg/L		99	90 - 110	0	20
Chloride			20.0	18.9		mg/L		95	90 - 110	0	20
Sulfate			20.0	19.0		mg/L		95	90 - 110	1	20

Lab Sample ID: 380-188598-B-13 MS
Matrix: Water
Analysis Batch: 340529

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Fluoride	0.88	E4	20.0	22.2		mg/L		107	80 - 120		
Chloride	410		100	499	M3	mg/L		89	80 - 120		
Sulfate	220		100	314		mg/L		93	80 - 120		

Lab Sample ID: 380-188598-B-13 MSD
Matrix: Water
Analysis Batch: 340529

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoride	0.88	E4	20.0	22.9		mg/L		110	80 - 120	3	20
Chloride	410		100	499	M3	mg/L		89	80 - 120	0	20
Sulfate	220		100	315		mg/L		95	80 - 120	0	20

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 550-340492/1-A
Matrix: Water
Analysis Batch: 340570

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 340492

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	ND	E8	0.050	0.0094	mg/L		12/19/25 11:24	12/22/25 21:29	1
Calcium	ND	E8	2.0	0.068	mg/L		12/19/25 11:24	12/22/25 21:29	1

Lab Sample ID: LCS 550-340492/2-A
Matrix: Water
Analysis Batch: 340570

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 340492

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Boron			1.00	0.964		mg/L		96	85 - 115		
Calcium			21.0	20.1		mg/L		96	85 - 115		

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Lab Sample ID: LCSD 550-340492/3-A
Matrix: Water
Analysis Batch: 340570

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 340492

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron			1.00	0.935		mg/L		93	85 - 115	3	20
Calcium			21.0	19.5		mg/L		93	85 - 115	3	20

Lab Sample ID: 550-239414-F-1-B MS
Matrix: Water
Analysis Batch: 340570

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 340492

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	0.098		1.00	1.08		mg/L		98	70 - 130
Calcium	17		21.0	36.8		mg/L		97	70 - 130

Lab Sample ID: 550-239414-F-1-C MSD
Matrix: Water
Analysis Batch: 340570

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 340492

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron	0.098		1.00	1.09		mg/L		99	70 - 130	1	20
Calcium	17		21.0	37.2		mg/L		98	70 - 130	1	20

Lab Sample ID: MB 550-340974/1-A
Matrix: Water
Analysis Batch: 341040

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 340974

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	ND	E8	0.050	0.0094	mg/L		01/15/26 09:28	01/16/26 14:22	1
Calcium	ND	E8	2.0	0.068	mg/L		01/15/26 09:28	01/16/26 14:22	1

Lab Sample ID: LCS 550-340974/2-A
Matrix: Water
Analysis Batch: 341040

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 340974

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron			1.00	0.927		mg/L		93	85 - 115
Calcium			21.0	20.6		mg/L		98	85 - 115

Lab Sample ID: LCSD 550-340974/3-A
Matrix: Water
Analysis Batch: 341040

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 340974

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron			1.00	0.927		mg/L		93	85 - 115	0	20
Calcium			21.0	20.5		mg/L		98	85 - 115	1	20

Lab Sample ID: 550-240357-C-1-A MS
Matrix: Water
Analysis Batch: 341040

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 340974

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	2.2		1.00	3.04		mg/L		84	70 - 130
Calcium	280	M3	21.0	283	M3	mg/L		21	70 - 130

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: 550-240357-C-1-B MSD
Matrix: Water
Analysis Batch: 341040

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 340974

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron	2.2		1.00	3.08		mg/L		89	70 - 130	1	20
Calcium	280	M3	21.0	288	M3	mg/L		43	70 - 130	2	20

Lab Sample ID: MB 570-679067/1-A
Matrix: Water
Analysis Batch: 679291

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 679067

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	ND	E8	0.050	0.030	mg/L		01/06/26 09:07	01/06/26 13:32	1

Lab Sample ID: LCS 570-679067/2-A
Matrix: Water
Analysis Batch: 679291

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 679067

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	0.500	0.519		mg/L		104	85 - 115

Lab Sample ID: LCSD 570-679067/3-A
Matrix: Water
Analysis Batch: 679291

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 679067

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lithium	0.500	0.510		mg/L		102	85 - 115	2	20

Lab Sample ID: 570-261356-A-1-C MS
Matrix: Water
Analysis Batch: 679291

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 679067

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	ND	E8	0.500	0.528		mg/L		106	80 - 120

Lab Sample ID: 570-261356-A-1-D MSD
Matrix: Water
Analysis Batch: 679291

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 679067

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lithium	ND	E8	0.500	0.518		mg/L		104	80 - 120	2	20

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 570-679060/1-A
Matrix: Water
Analysis Batch: 679437

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 679060

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND	E8	0.0010	0.00051	mg/L		01/06/26 08:50	01/06/26 18:52	1
Arsenic	ND	E8	0.00020	0.000083	mg/L		01/06/26 08:50	01/06/26 18:52	1
Barium	ND	E8	0.50	0.19	ug/L		01/06/26 08:50	01/06/26 18:52	1
Cadmium	ND	E8	0.00020	0.000044	mg/L		01/06/26 08:50	01/06/26 18:52	1
Beryllium	ND	E8	0.50	0.22	ug/L		01/06/26 08:50	01/06/26 18:52	1

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 570-679060/1-A
Matrix: Water
Analysis Batch: 679437

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 679060

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND	E8	0.0010	0.00012	mg/L		01/06/26 08:50	01/06/26 18:52	1
Cobalt	ND	E8	0.20	0.039	ug/L		01/06/26 08:50	01/06/26 18:52	1
Lead	ND	E8	0.00020	0.00012	mg/L		01/06/26 08:50	01/06/26 18:52	1
Molybdenum	ND	E8	0.50	0.16	ug/L		01/06/26 08:50	01/06/26 18:52	1
Thallium	ND	E8	0.00020	0.000081	mg/L		01/06/26 08:50	01/06/26 18:52	1
Selenium	ND	E8	1.0	0.71	ug/L		01/06/26 08:50	01/06/26 18:52	1

Lab Sample ID: LCS 570-679060/2-A
Matrix: Water
Analysis Batch: 679437

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 679060

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.0800	0.0800		mg/L		100	85 - 115
Arsenic	0.0800	0.0744		mg/L		93	85 - 115
Barium	80.0	79.0		ug/L		99	85 - 115
Cadmium	0.0800	0.0763		mg/L		95	85 - 115
Beryllium	80.0	79.6		ug/L		99	85 - 115
Chromium	0.0800	0.0777		mg/L		97	85 - 115
Cobalt	80.0	77.9		ug/L		97	85 - 115
Lead	0.0800	0.0776		mg/L		97	85 - 115
Molybdenum	80.0	69.8		ug/L		87	85 - 115
Thallium	0.0800	0.0778		mg/L		97	85 - 115
Selenium	80.0	74.6		ug/L		93	85 - 115

Lab Sample ID: LCSD 570-679060/3-A
Matrix: Water
Analysis Batch: 679437

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 679060

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	0.0800	0.0810		mg/L		101	85 - 115	1	20
Arsenic	0.0800	0.0753		mg/L		94	85 - 115	1	20
Barium	80.0	79.8		ug/L		100	85 - 115	1	20
Cadmium	0.0800	0.0772		mg/L		97	85 - 115	1	20
Beryllium	80.0	79.4		ug/L		99	85 - 115	0	20
Chromium	0.0800	0.0770		mg/L		96	85 - 115	1	20
Cobalt	80.0	78.1		ug/L		98	85 - 115	0	20
Lead	0.0800	0.0783		mg/L		98	85 - 115	1	20
Molybdenum	80.0	71.7		ug/L		90	85 - 115	3	20
Thallium	0.0800	0.0776		mg/L		97	85 - 115	0	20
Selenium	80.0	75.8		ug/L		95	85 - 115	2	20

Lab Sample ID: 570-261469-A-2-B MS
Matrix: Water
Analysis Batch: 679437

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 679060

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.0036	M2	0.0800	0.0699		mg/L		83	80 - 120
Arsenic	0.0076		0.0800	0.0888		mg/L		102	80 - 120
Barium	390	M3	80.0	502	M3	ug/L		142	80 - 120

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: 570-261469-A-2-B MS
Matrix: Water
Analysis Batch: 679437

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 679060

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Cadmium	0.0028		0.0800	0.0881		mg/L		107	80 - 120
Beryllium	0.48	E4	80.0	88.7		ug/L		110	80 - 120
Chromium	0.032		0.0800	0.119		mg/L		109	80 - 120
Cobalt	11		80.0	97.0		ug/L		107	80 - 120
Lead	0.11		0.0800	0.201		mg/L		117	80 - 120
Molybdenum	4.8		80.0	76.2		ug/L		89	80 - 120
Thallium	0.00019	E4	0.0800	0.0828		mg/L		103	80 - 120
Selenium	1.1		80.0	81.8		ug/L		101	80 - 120

Lab Sample ID: 570-261469-A-2-C MSD
Matrix: Water
Analysis Batch: 679437

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 679060

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	0.0036	M2	0.0800	0.0657	M2	mg/L		78	80 - 120	6	20
Arsenic	0.0076		0.0800	0.0856		mg/L		98	80 - 120	4	20
Barium	390	M3	80.0	496	M3	ug/L		134	80 - 120	1	20
Cadmium	0.0028		0.0800	0.0836		mg/L		101	80 - 120	5	20
Beryllium	0.48	E4	80.0	85.0		ug/L		106	80 - 120	4	20
Chromium	0.032		0.0800	0.115		mg/L		103	80 - 120	4	20
Cobalt	11		80.0	93.3		ug/L		102	80 - 120	4	20
Lead	0.11		0.0800	0.198		mg/L		113	80 - 120	2	20
Molybdenum	4.8		80.0	72.0		ug/L		84	80 - 120	6	20
Thallium	0.00019	E4	0.0800	0.0795		mg/L		99	80 - 120	4	20
Selenium	1.1		80.0	79.3		ug/L		98	80 - 120	3	20

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 550-340464/1-A
Matrix: Water
Analysis Batch: 340511

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 340464

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND	E8	0.00020	0.000070	mg/L		12/18/25 16:00	12/19/25 13:27	1

Lab Sample ID: LCS 550-340464/2-A
Matrix: Water
Analysis Batch: 340511

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 340464

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00500	0.00439		mg/L		88	85 - 115

Lab Sample ID: LCSD 550-340464/3-A
Matrix: Water
Analysis Batch: 340511

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 340464

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.00500	0.00446		mg/L		89	85 - 115	2	20

Method: 245.1 - Mercury (CVAA) (Continued)

Lab Sample ID: 550-239502-I-1-B MS
Matrix: Water
Analysis Batch: 340511

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 340464

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	ND	E8	0.00500	0.00461		mg/L		92	70 - 130

Lab Sample ID: 550-239502-I-1-C MSD
Matrix: Water
Analysis Batch: 340511

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 340464

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	ND	E8	0.00500	0.00444		mg/L		89	70 - 130	4	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 550-340467/1
Matrix: Water
Analysis Batch: 340467

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND	E8	20	20	mg/L			12/18/25 15:05	1

Lab Sample ID: LCS 550-340467/2
Matrix: Water
Analysis Batch: 340467

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	1000	1040		mg/L		104	90 - 110

Lab Sample ID: LCSD 550-340467/3
Matrix: Water
Analysis Batch: 340467

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids	1000	1040		mg/L		104	90 - 110	0	10

Lab Sample ID: 550-239493-A-1 DU
Matrix: Water
Analysis Batch: 340467

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	1600		1590		mg/L		0.6	10

Lab Sample ID: MB 550-340596/1
Matrix: Water
Analysis Batch: 340596

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND	E8	20	20	mg/L			12/23/25 18:47	1

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: LCS 550-340596/2
Matrix: Water
Analysis Batch: 340596

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids			1000	1040		mg/L		104	90 - 110		

Lab Sample ID: LCSD 550-340596/3
Matrix: Water
Analysis Batch: 340596

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids			1000	1070		mg/L		107	90 - 110	3	10

Lab Sample ID: 380-188598-C-13 DU
Matrix: Water
Analysis Batch: 340596

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	590			580		mg/L				2	10

HPLC/IC

Analysis Batch: 340517

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-239452-2	CCR-5D	Total/NA	Water	300.0	
MB 550-340517/30	Method Blank	Total/NA	Water	300.0	
LCS 550-340517/33	Lab Control Sample	Total/NA	Water	300.0	
LCSD 550-340517/34	Lab Control Sample Dup	Total/NA	Water	300.0	
550-239432-A-1 MS	Matrix Spike	Total/NA	Water	300.0	
550-239432-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	

Analysis Batch: 340529

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-239452-2	CCR-5D	Total/NA	Water	300.0	
MB 550-340529/2	Method Blank	Total/NA	Water	300.0	
LCS 550-340529/5	Lab Control Sample	Total/NA	Water	300.0	
LCSD 550-340529/6	Lab Control Sample Dup	Total/NA	Water	300.0	
380-188598-B-13 MS	Matrix Spike	Total/NA	Water	300.0	
380-188598-B-13 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	

Metals

Prep Batch: 340464

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-239452-2	CCR-5D	Total/NA	Water	245.1	
MB 550-340464/1-A	Method Blank	Total/NA	Water	245.1	
LCS 550-340464/2-A	Lab Control Sample	Total/NA	Water	245.1	
LCSD 550-340464/3-A	Lab Control Sample Dup	Total/NA	Water	245.1	
550-239502-I-1-B MS	Matrix Spike	Total/NA	Water	245.1	
550-239502-I-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	245.1	

Prep Batch: 340492

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-239452-2	CCR-5D	Total/NA	Water	200.7	
MB 550-340492/1-A	Method Blank	Total/NA	Water	200.7	
LCS 550-340492/2-A	Lab Control Sample	Total/NA	Water	200.7	
LCSD 550-340492/3-A	Lab Control Sample Dup	Total/NA	Water	200.7	
550-239414-F-1-B MS	Matrix Spike	Total/NA	Water	200.7	
550-239414-F-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	200.7	

Analysis Batch: 340511

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-239452-2	CCR-5D	Total/NA	Water	245.1	340464
MB 550-340464/1-A	Method Blank	Total/NA	Water	245.1	340464
LCS 550-340464/2-A	Lab Control Sample	Total/NA	Water	245.1	340464
LCSD 550-340464/3-A	Lab Control Sample Dup	Total/NA	Water	245.1	340464
550-239502-I-1-B MS	Matrix Spike	Total/NA	Water	245.1	340464
550-239502-I-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	245.1	340464

Analysis Batch: 340570

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-239452-2	CCR-5D	Total/NA	Water	200.7 Rev 4.4	340492
MB 550-340492/1-A	Method Blank	Total/NA	Water	200.7 Rev 4.4	340492
LCS 550-340492/2-A	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	340492
LCSD 550-340492/3-A	Lab Control Sample Dup	Total/NA	Water	200.7 Rev 4.4	340492

Metals (Continued)

Analysis Batch: 340570 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-239414-F-1-B MS	Matrix Spike	Total/NA	Water	200.7 Rev 4.4	340492
550-239414-F-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	200.7 Rev 4.4	340492

Prep Batch: 340974

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-239452-3	CCR-1U	Total/NA	Water	200.7	
MB 550-340974/1-A	Method Blank	Total/NA	Water	200.7	
LCS 550-340974/2-A	Lab Control Sample	Total/NA	Water	200.7	
LCSD 550-340974/3-A	Lab Control Sample Dup	Total/NA	Water	200.7	
550-240357-C-1-A MS	Matrix Spike	Total/NA	Water	200.7	
550-240357-C-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	200.7	

Analysis Batch: 341040

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-239452-3	CCR-1U	Total/NA	Water	200.7 Rev 4.4	340974
MB 550-340974/1-A	Method Blank	Total/NA	Water	200.7 Rev 4.4	340974
LCS 550-340974/2-A	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	340974
LCSD 550-340974/3-A	Lab Control Sample Dup	Total/NA	Water	200.7 Rev 4.4	340974
550-240357-C-1-A MS	Matrix Spike	Total/NA	Water	200.7 Rev 4.4	340974
550-240357-C-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	200.7 Rev 4.4	340974

Prep Batch: 679060

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-239452-2	CCR-5D	Total Recoverable	Water	200.8	
MB 570-679060/1-A	Method Blank	Total Recoverable	Water	200.8	
LCS 570-679060/2-A	Lab Control Sample	Total Recoverable	Water	200.8	
LCSD 570-679060/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.8	
570-261469-A-2-B MS	Matrix Spike	Total Recoverable	Water	200.8	
570-261469-A-2-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	200.8	

Prep Batch: 679067

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-239452-2	CCR-5D	Total Recoverable	Water	200.7	
MB 570-679067/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 570-679067/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
LCSD 570-679067/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7	
570-261356-A-1-C MS	Matrix Spike	Total Recoverable	Water	200.7	
570-261356-A-1-D MSD	Matrix Spike Duplicate	Total Recoverable	Water	200.7	

Analysis Batch: 679291

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 570-679067/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	679067
LCS 570-679067/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	679067
LCSD 570-679067/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7 Rev 4.4	679067
570-261356-A-1-C MS	Matrix Spike	Total Recoverable	Water	200.7 Rev 4.4	679067
570-261356-A-1-D MSD	Matrix Spike Duplicate	Total Recoverable	Water	200.7 Rev 4.4	679067

Analysis Batch: 679310

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-239452-2	CCR-5D	Total Recoverable	Water	200.7 Rev 4.4	679067

QC Association Summary

Client: Tucson Electric Power
Job ID: 550-239452-1
Project/Site: Springerville - Detection and Assessment

Metals

Analysis Batch: 679437

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-239452-2	CCR-5D	Total Recoverable	Water	200.8	679060
MB 570-679060/1-A	Method Blank	Total Recoverable	Water	200.8	679060
LCS 570-679060/2-A	Lab Control Sample	Total Recoverable	Water	200.8	679060
LCSD 570-679060/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.8	679060
570-261469-A-2-B MS	Matrix Spike	Total Recoverable	Water	200.8	679060
570-261469-A-2-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	200.8	679060

General Chemistry

Analysis Batch: 340467

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-239452-1	CCR-2D	Total/NA	Water	SM 2540C	
MB 550-340467/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 550-340467/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 550-340467/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
550-239493-A-1 DU	Duplicate	Total/NA	Water	SM 2540C	

Analysis Batch: 340596

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-239452-2	CCR-5D	Total/NA	Water	SM 2540C	
MB 550-340596/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 550-340596/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 550-340596/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
380-188598-C-13 DU	Duplicate	Total/NA	Water	SM 2540C	

Lab Chronicle

Client: Tucson Electric Power
Job ID: 550-239452-1
Project/Site: Springerville - Detection and Assessment

Client Sample ID: CCR-2D
Lab Sample ID: 550-239452-1
Date Collected: 12/15/25 15:55
Matrix: Water
Date Received: 12/17/25 07:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	SM 2540C		1	340467	MML	EET PHX	12/18/25 15:05 - 12/22/25 13:45 [1]

Client Sample ID: CCR-5D
Lab Sample ID: 550-239452-2
Date Collected: 12/16/25 09:00
Matrix: Water
Date Received: 12/17/25 07:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	300.0		20	340517	R1K	EET PHX	12/20/25 01:23
Total/NA	Analysis	300.0		1	340529	R1K	EET PHX	12/22/25 16:23
Total Recoverable	Prep	200.7			679067	PNB2	EET CAL 4	01/06/26 09:07
Total Recoverable	Analysis	200.7 Rev 4.4		1	679310	VZ0K	EET CAL 4	01/06/26 15:26
Total/NA	Prep	200.7			340492	JAC	EET PHX	12/19/25 11:24
Total/NA	Analysis	200.7 Rev 4.4		1	340570	JAC	EET PHX	12/22/25 21:56
Total Recoverable	Prep	200.8			679060	PNB2	EET CAL 4	01/06/26 11:44
Total Recoverable	Analysis	200.8		1	679437	P1R	EET CAL 4	01/06/26 21:42
Total/NA	Prep	245.1			340464	BXZ	EET PHX	12/18/25 16:00
Total/NA	Analysis	245.1		1	340511	BXZ	EET PHX	12/19/25 13:51
Total/NA	Analysis	SM 2540C		1	340596	AKS	EET PHX	12/23/25 18:47 - 12/29/25 15:50 [1]

Client Sample ID: CCR-1U
Lab Sample ID: 550-239452-3
Date Collected: 12/16/25 13:50
Matrix: Water
Date Received: 12/17/25 07:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	200.7			340974	JAC	EET PHX	01/15/26 09:28
Total/NA	Analysis	200.7 Rev 4.4		1	341040	JAC	EET PHX	01/16/26 14:43

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

EET PHX = Eurofins Phoenix, 4625 East Cotton Center Boulevard, Suite #189, Phoenix, AZ 85040, TEL (602)437-3340

Radiation = Radiation Safety, 3245 North Washington Street, Chandler, AZ 85225

Accreditation/Certification Summary

Client: Tucson Electric Power
Job ID: 550-239452-1
Project/Site: Springerville - Detection and Assessment

Laboratory: Eurofins Phoenix

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arizona	State	AZ0728	06-10-26

Laboratory: Eurofins Calscience

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	7296.01	11-30-26
A2LA	ISO/IEC 17025	7296.01	11-30-26
Alaska (UST)	State	25-005	03-02-26
Arizona	State	AZ0830	11-17-26
California	Los Angeles County Sanitation Districts	9257304	07-31-26
California	SCAQMD LAP	17LA0919	11-30-26
California	State	3082	01-07-26
Kansas	NELAP	E-10420	07-31-26
Nevada	State	CA00111	07-31-26
Oregon	NELAP	4175	02-02-26
USDA	US Federal Programs	525-23-159-97150	06-08-26
Utah	NELAP	CA00111	02-28-26
Washington	State	C916	10-11-26

Method Summary

Client: Tucson Electric Power
Job ID: 550-239452-1
Project/Site: Springerville - Detection and Assessment

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	EPA	EET PHX
200.7 Rev 4.4	Metals (ICP)	EPA	EET CAL 4
200.7 Rev 4.4	Metals (ICP)	EPA	EET PHX
200.8	Metals (ICP/MS)	EPA	EET CAL 4
245.1	Mercury (CVAA)	EPA	EET PHX
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET PHX
Subcontract	Radium 226/228	None	Radiation
200.7	Preparation, Total Recoverable Metals	EPA	EET CAL 4
200.7	Preparation, Total Metals	EPA	EET PHX
200.8	Preparation, Total Recoverable Metals	EPA	EET CAL 4
245.1	Preparation, Mercury	EPA	EET PHX

Protocol References:

EPA = US Environmental Protection Agency
None = None
SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494
EET PHX = Eurofins Phoenix, 4625 East Cotton Center Boulevard, Suite #189, Phoenix, AZ 85040, TEL (602)437-3340
Radiation = Radiation Safety, 3245 North Washington Street, Chandler, AZ 85225

Radiation Safety Engineering, Inc.
3245 N. WASHINGTON ST. • CHANDLER, ARIZONA 85225-1121 (480) 897-9459
Website: www.radsafe.com FAX (480) 892-5446

Radiochemical Activity in Water (pCi/L)

TestAmerica
4625 E. Cotton Center Blvd., Suite #189
Phoenix, AZ 85040

Sampling Date: December 16, 2025
Sample Received: December 19, 2025
Analysis Completed: January 02, 2026

Sample ID	Radium 226 Activity Method GammaRay HPGE (pCi/L)	Radium 228 Activity Method GammaRay HPGE (pCi/L)	Total Radium (pCi/L)
550-239452-2	5.1 ± 0.3	1.2 ± 0.4	6.3 ± 0.5

Date of Analysis	1/2/2026	1/2/2026	1/2/2026
	3:18	3:18	3:18

Robert L. Metzger, Ph.D., C.H.P. 1/2/2026
Laboratory License Number AZ0462

Arizona Department of Environmental Quality

Drinking Water Radionuclides-Adjusted Gross Alpha, Radium 226 & 228, Uranium Analysis Report

Samples To Be Taken At Entry Point Into Distribution System (EPDS) Only

PWS ID#: AZ04 _____ PWS Name: _____

December 16, 2025 (Sample Date) 9:00 (Sample Time) (24 hour clock) _____ (Owner/Contact Person)

_____ (Owner/Contact Fax Number) _____ (Owner/Contact Phone Number)

Sample Collection Point

☐ EPDS # _____

Compliance Sample Type:

☐ Reduced Monitoring — Date Q1 collected: _____

☐ Quarterly — Date Q2 collected: _____

☐ Composite of four quarterly samples — Date Q3 collected: _____

Date Q4 collected: _____

RADIOCHEMICAL ANALYSIS

>>>To be filled out by laboratory personnel<<<

*****Combined Uranium must be reported in micrograms per liter*****

Analysis Method	MCL	Reporting Limit	Contaminant Name	Cont. Code	Analyses Run Date	Result		Exceed MCL
Calculated	15 pCi/L		Adjusted Gross Alpha	4000				
EPA 00-02		3 pCi/L	Gross Alpha	4002				
7500 - Rn			Radon	4004				
ASTM D6239	30 µg/L	1 µg/L	Combined Uranium	4006			µg/L	
			Uranium 234	4007				
			Uranium 235	4008				
			Uranium 238	4009				
	5 pCi/L	1 pCi/L	Combined Radium (226,228)	4010	1/2/2026	6.3 ± 0.5		X
GammaRay HPGE		1 pCi/L	Radium 226	4020	1/2/2026	5.1 ± 0.3		
GammaRay HPGE		1 pCi/L	Radium 228	4030	1/2/2026	1.2 ± 0.4		

LABORATORY INFORMATION

>>>To be filled out by laboratory personnel<<<

Specimen Number: RSE78980

Lab ID Number: AZ0462

Lab Name: Radiation Safety Engineering, Inc.

Printed Name and Phone Number of Laboratory Contact: Robert L. Metzger, Ph.D., C.H.P.

Comments: 550-239452-2

Authorized Signature: Robert L. Metzger

Date Public Water System Notified: _____

DWAR 6: 11/2007

Eurofins Phoenix
4625 East Cotton Center Boulevard Suite #189
Phoenix, AZ 85040
Phone: 602-437-3340

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Johnson, Derek S	Carrier Tracking No(s): N/A	COC No: 550-44745.1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Derek.Johnson@et.eurofinsus.com	State of Origin: Arizona	Page: Page 1 of 1
Company: Radiation Safety Eng., Inc.		Accreditations Required (See note): State Program - Arizona		Job #: 550-239452-1
Address: 3245 North Washington Street, ,	Due Date Requested: 1/14/2026			Preservation Codes: -
City: Chandler	TAT Requested (days): N/A			
State, Zip: AZ, 85225				
Phone: N/A	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: Springerville - Detection and Assessment	Project #: 55011633			
Site: N/A	SSOW#: N/A			Other: N/A

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SUB - Subcontract - Radium 226/228	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
CCR-5D (550-239452-2)	12/16/25	09:00 Arizona	G	Water			X	2	78980

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Southwest, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southwest, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Southwest, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Southwest, LLC.

Possible Hazard Identification: Unconfirmed	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Marc Cat	12-19-25 1542	EETA-PHX	MS	12/19/25 3:43PM	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Radiation Safety Engineering, Inc.
3245 N. WASHINGTON ST. • CHANDLER, ARIZONA 85225-1121 (480) 897-9459
Website: www.radsafe.com FAX (480) 892-5446

Radiochemical Activity in Water (pCi/L)

TestAmerica
4625 E. Cotton Center Blvd., Suite #189
Phoenix, AZ 85040

Sampling Date: December 16, 2025
Sample Received: December 19, 2025
Analysis Completed: January 02, 2026

Sample ID	Radium 226 Activity Method GammaRay HPGE (pCi/L)	Radium 228 Activity Method GammaRay HPGE (pCi/L)	Total Radium (pCi/L)
550-239452-2	5.1 ± 0.3	1.2 ± 0.4	6.3 ± 0.5

Date of Analysis	1/2/2026	1/2/2026	1/2/2026
	3:18	3:18	3:18

Robert L. Metzger, Ph.D., C.H.P. 1/2/2026
Laboratory License Number AZ0462

Arizona Department of Environmental Quality

Drinking Water Radionuclides-Adjusted Gross Alpha, Radium 226 & 228, Uranium Analysis Report

Samples To Be Taken At Entry Point Into Distribution System (EPDS) Only

PWS ID#: AZ04 _____ PWS Name: _____

December 16, 2025 (Sample Date) 9:00 (Sample Time) (24 hour clock) _____ (Owner/Contact Person)

_____ (Owner/Contact Fax Number) _____ (Owner/Contact Phone Number)

Sample Collection Point

☐ EPDS # _____

Compliance Sample Type:

☐ Reduced Monitoring — Date Q1 collected: _____

☐ Quarterly — Date Q2 collected: _____

☐ Composite of four quarterly samples — Date Q3 collected: _____

Date Q4 collected: _____

*****RADIOCHEMICAL ANALYSIS*****

>>>To be filled out by laboratory personnel<<<

*****Combined Uranium must be reported in micrograms per liter*****

Analysis Method	MCL	Reporting Limit	Contaminant Name	Cont. Code	Analyses Run Date	Result		Exceed MCL
Calculated	15 pCi/L		Adjusted Gross Alpha	4000				
EPA 00-02		3 pCi/L	Gross Alpha	4002				
7500 - Rn			Radon	4004				
ASTM D6239	30 µg/L	1 µg/L	Combined Uranium	4006			µg/L	
			Uranium 234	4007				
			Uranium 235	4008				
			Uranium 238	4009				
	5 pCi/L	1 pCi/L	Combined Radium (226,228)	4010	1/2/2026	6.3 ± 0.5		X
GammaRay HPGE		1 pCi/L	Radium 226	4020	1/2/2026	5.1 ± 0.3		
GammaRay HPGE		1 pCi/L	Radium 228	4030	1/2/2026	1.2 ± 0.4		

*****LABORATORY INFORMATION*****

>>>To be filled out by laboratory personnel<<<

Specimen Number: RSE78980

Lab ID Number: AZ0462

Lab Name: Radiation Safety Engineering, Inc.

Printed Name and Phone Number of Laboratory Contact: Robert L. Metzger, Ph.D., C.H.P.

Comments: 550-239452-2

Authorized Signature: Robert L. Metzger

Date Public Water System Notified: _____

DWAR 6: 11/2007

Eurofins Phoenix
4625 East Cotton Center Boulevard Suite #189
Phoenix, AZ 85040
Phone: 602-437-3340

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Johnson, Derek S	Carrier Tracking No(s): N/A	COC No: 550-44745.1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Derek.Johnson@et.eurofinsus.com	State of Origin: Arizona	Page: Page 1 of 1
Company: Radiation Safety Eng., Inc.		Accreditations Required (See note): State Program - Arizona		Job #: 550-239452-1
Address: 3245 North Washington Street, ,	Due Date Requested: 1/14/2026			Preservation Codes: -
City: Chandler	TAT Requested (days): N/A			
State, Zip: AZ, 85225				
Phone: N/A	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: Springerville - Detection and Assessment	Project #: 55011633			
Site: N/A	SSOW#: N/A			Other: N/A

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SUB - Subcontract - Radium 226/228	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
CCR-5D (550-239452-2)	12/16/25	09:00 Arizona	G	Water			X	2	78980

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Southwest, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southwest, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Southwest, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Southwest, LLC.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Mary Cat	12-19-25 1542	EETA-PHX	MS	12/19/25 3:43PM	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Eurofins Phoenix
4625 East Cotton Center Boulevard Suite #189
Phoenix, AZ 85040
Phone (602) 437-3340

Chain of Custody Record

99459
239452

eurofins | Environment Testing

Client Information	Sampler: E. Morse	Lab PM: Johnson, Derek S	Carrier Tracking No(s):	COC No: 550-99459-29994.1
Client Contact: Samantha Kaney	Phone: 916-276-3077	E-Mail: Derek.Johnson@et.eurofinsus.com	State of Origin: AZ	Page: Page 1 of 1
Company: Haley & Aldrich Inc	PWSID:			Job #:
Address: 6420 S. Macadam Ave. Suite #100	Due Date Requested:			Preservation Codes: D - HNO3, N - None
City: Portland	TAT Requested (days):			
State, Zip: OR, 97239	Compliance Project: Δ Yes Δ No			
Phone:	PO #: 149836			
Email: SKaney@haleyaldrich.com	WO #:			
Project Name: Springerville - Detection and Assessment	Project #: 55011633			Other:
Site:	SSOW#:			

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air, DW=Drinking Water)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	200.7_CWA - (MOD) Boron, Calcium	2540C_Calcd, 300_ORGFMS	2540C_Calcd - TDS	SUBCONTRACT - Radium 226/228	200.7_CWA, 245.1_CWA	2540C_Calcd, 300_ORGFMS, SM4500_H+	200.7, 200.8_LL	Total Number of containers	Special Instructions/Note:
				Preservation Code:			D	N	N	N	D	N	D		
CCR-2D	12/15/25	1555	G	Water	X	Y			N					1	
CCR-5D	12/16/25	900	G	Water	X	X		N		N	D		D	5	
CCR-1D	12/16/25	1350	G	Water	X	X	D	N	N					2	

550-239452 COC

TH295-2.1°c-RT3

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For ______ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	12/16/25 @ 1400	Cortlunes	[signature]	12/16/25 1400	CBI
[signature]	12/16/25 1847	CBI	[signature]		
			C Mau Gt	12/17/25 7:02	EETA-PHX

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 05/06/2024

Eurofins Phoenix
4625 East Cotton Center Boulevard Suite #189
Phoenix, AZ 85040
Phone (602) 437-3340

Chain of Custody Record

99459
239452

eurofins | Environment Testing

Client Information	Sampler: E. Morse	Lab PM: Johnson, Derek S	Carrier Tracking No(s):	COC No: 550-99459-29994.1
Client Contact: Samantha Kaney	Phone: 916-276-3057	E-Mail: Derek.Johnson@et.eurofinsus.com	State of Origin: AZ	Page: Page 1 of 1
Company: Haley & Aldrich Inc	PWSID:			Job #:
Address: 6420 S. Macadam Ave. Suite #100	Due Date Requested:			
City: Portland	TAT Requested (days):			
State, Zip: OR, 97239	Compliance Project: Δ Yes Δ No			
Phone:	PO #: 149836			
Email: SKaney@haleyaldrich.com	WO #:			
Project Name: Springerville - Detection and Assessment	Project #: 55011633			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
D - HNO3
N - None
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air, DW=Drinking Water)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	200.7_CWA - (MOD) Boron, Calcium	2540C_Calcd, 300_ORGFMS	2540C_Calcd - TDS	SUBCONTRACT - Radium 226/228	200.7_CWA, 245.1_CWA	2540C_Calcd, 300_ORGFMS, SM4500_H+	200.7, 200.8_LL	Total Number of containers	Special Instructions/Note:
			Preservation Code:				D	N	N	N	D	N	D		
CCR-2D	12/15/25	1555	G	Water	X	X			N					1	
CCR-5D	12/16/25	900	G	Water	X	X		N		N	D		D	5	
CCR-1D	12/16/25	1350	G	Water	X	X	D	N	N					2	

550-239452 COC

TH295 - 2.1°C - BTS

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	12/16/25 @ 1400	Eurofins		12/16/25 1400	CBL
Relinquished by:	12/16/25 1847	CBL		Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 12/17/25 7:02	Company EETA-PHX

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 05/06/2024

1/16/2026 (Rev. 1)

TestAmerica

Custody Seal

DATE

SIGNATURE

550-239452 Waybill

ORIGIN ID:INWA (602) 437-3340
EUROFINS PHOENIX
EUROFINS PHOENIX
4625 E COTTON CENTER BLVD
SUITE 189
PHOENIX, AZ 85040
UNITED STATES US

SHIP DATE: 17DEC25
ACTWGT: 59.36 LB MAN
CAD: 0875926/CAFE3953
DIMS: 25x13x14 IN

BILL RECIPIENT

TO SHIPPING/RECEIVING
EUROFINS ENVIRONMENT TESTING SOUTHW
2841 DOW AVENUE
SUITE 100
TUSTIN CA 92780

(714) 895-5494
PO: YES

REF: 8550-99712
DEPT: SAMPLE RECEIVING

FedEx Express

TRK# 0201 4156 7889 9542

THU - 18 DEC 12:00P
PRIORITY OVERNIGHT

QZ DTHA

92780
CA-US SNA

****

Please secure this address label to the

TestAmerica

Custody Seal

DATE

SIGNATURE

eurofins

550-239452 Waybill

ORIGIN ID:INWA (602) 437-3340
EUROFINS PHOENIX
EUROFINS PHOENIX
4625 E COTTON CENTER BLVD
SUITE 189
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FedEx Express

TRK# 0201 4156 7889 9542

THU - 18 DEC 12:00P
PRIORITY OVERNIGHT

QZ DTHA

92780
CA-US SNA

****

Please secure this address label to the

Eurofins Phoenix
4625 East Cotton Center Boulevard Suite #189
Phoenix, AZ 85040
Phone: 602-437-3340

Chain of Custody Record

eurofins Loc: 550

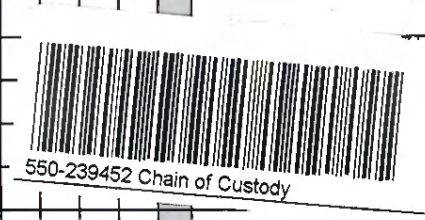
239452

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Johnson, Derek S	Carrier Tracking No(s): N/A	COC No: 550-44735.1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Derek.Johnson@et.eurofinsus.com	State of Origin: Arizona	Page: Page 1 of 1
Company: Eurofins Environment Testing Southwest L		Accreditations Required (See note): State Program - Arizona		Job #: 550-239452-1
Address: 2841 Dow Avenue, Suite 100,	Due Date Requested: 1/19/2026			
City: Tustin	TAT Requested (days): N/A			
State, Zip: CA, 92780				
Phone: 714-895-5494(Tel)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: Springerville - Detection and Assessment	Project #: 55011633			
Site: N/A	SSOW#: N/A			

Preservation Codes: -

Other: N/A

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	200.7/200.7_P_TRLithium 200.7	200.8_LL/200.8_P_TR(MOD) 1 metals , including prep	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
CCR-5D (550-239452-2)	12/16/25	09:00 Arizona	G	Water			X	X	1	



Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Southwest, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southwest, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Southwest, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Southwest, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	[illegible] 12-17-25 15:00		EETA-PHX	Fedex		
2	Fedex				12/18/25 1000	
3						

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 1-3 / 1-8 1K3

Eurofins Phoenix
4625 East Cotton Center Boulevard Suite #189
Phoenix, AZ 85040
Phone: 602-437-3340

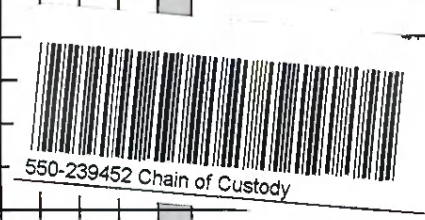
Chain of Custody Record

eurofins Loc: 550
239452

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Johnson, Derek S	Carrier Tracking No(s): N/A	COC No: 550-44735.1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Derek.Johnson@et.eurofinsus.com	State of Origin: Arizona	Page: Page 1 of 1
Company: Eurofins Environment Testing Southwest L		Accreditations Required (See note): State Program - Arizona		Job #: 550-239452-1
Address: 2841 Dow Avenue, Suite 100,	Due Date Requested: 1/19/2026			
City: Tustin	TAT Requested (days): N/A			
State, Zip: CA, 92780				
Phone: 714-895-5494(Tel)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: Springerville - Detection and Assessment	Project #: 55011633			
Site: N/A	SSOW#: N/A			

Preservation Codes: -
Other: N/A

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	200.7/200.7_P_TRLithium 200.7	200.8_LL/200.8_P_TR(MOD) 1 metals , including prep	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
CCR-5D (550-239452-2)	12/16/25	09:00 Arizona	G	Water			X	X	1	



Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Southwest, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southwest, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Southwest, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Southwest, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	[illegible] 12-17-25 15:00		EETA-PHX	Fedex		
2	Fedex				12/18/25 1000	
3						

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 1-3 / 1-8 1K3

Login Sample Receipt Checklist

Client: Tucson Electric Power

Job Number: 550-239452-1

Login Number: 239452
List Number: 1
Creator: Robles, Kemberly

List Source: Eurofins Phoenix

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	Refer to Job Narrative for details.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	False	Refer to Job Narrative for details.
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	False	Sample splitting required for subcontract purposes.
Residual Chlorine Checked.	False	No analysis requiring residual chlorine check assigned.

Login Sample Receipt Checklist

Client: Tucson Electric Power

Job Number: 550-239452-1

Login Number: 239452
List Number: 2
Creator: Khana, Piyush

List Source: Eurofins Calscience
List Creation: 12/18/25 04:15 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	